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Title word cross-reference

$(N + 1)$ [BCV06]. 1 [Bos03, FH01, LY05].
 $1/|x|$ [RW00b]. $1 \leq p < \infty$ [BFP08]. 2
[CG00, HL02a, HL02b, Kim09, Kim13]. 2×2
[CHS08, HL02a, HL02b]. 3
[CL04, CF01, Mas01, MPP09, ST01]. ¹
[WW02]. ² [BCN02]. ${}_3F_2$ [BPR00b]. *BV*
[DP09]. C^1 [KK04a]. C^∞ [HS08]. *d* [LL00].
 D^2 [AHM09]. δ [CL03]. $\operatorname{div} \left(\frac{Du}{D} u \right) = u$
[BCN05]. Γ [ABV06, BN08, Hor08, CMS04,
GM05, Ped04]. $H^s(\partial\Omega)$ [Auc06]. H_2^1 [Mik09].
 ∞ [CDJ08]. k [KS03b]. $\kappa \rightarrow +\infty$ [BCM00].
 L [BCN02]. L^1 [Ha01, HY03]. L^2
[HZ09, HK06, VZ07]. L^∞
[AG02, Bia01, BN08]. L^p [CCD02, IK01]. L_p
[BP07]. $L_q((0, T), L_p)$ [Kry01]. \mathbf{R}^n [DKS02].
 N [Ali03, BCV06, KT01]. P
[CQW03, DP09, AMRT09, BFP08, CR03,
CG08, IL05, Lie05, LL03]. q [AL06]. R
[WW02]. R^2 [BCN05]. R^3 [BV08, Han01].
 R^n [NW04]. S^2 [AHM09]. T [MP08, Kri04].
 $u_{xxxx} + u_{yyyy} = f$ [KS06a]. ε [Sug09]. Z
[CT09].
-Body [CL04, BCV06]. **-Convergence**
[CMS04, Ped04, ABV06, BN08, Hor08].
-Critical [HK06, VZ07]. **-Dimensional**
[HL02a, HL02b, Ali03, BCV06]. **-Harmonic**
[BFP08]. **-Junctions** [MP08]. **-Laplace**
[IL05]. **-Laplacian** [AMRT09, CQW03].
-Limit [GM05]. **-Manifolds** [CG00].
-Monotone [KS03b]. **-Racah** [AL06].
-Regularity [Sug09]. **-Shocks** [CL03].
-Solutions [Mik09]. **-Spaces** [Kry01].

-System [CG08, DP09]. **-Theory** [BP07].
-Wasserstein [CDJ08]. **-Wave**
 [LL00, LL03]. **-Waves** [KT01].

1D [Bos05].

2D [Wu05].

34 [Pla09b].

Absence [ET09]. **Absolutely** [FLT09].
Absorption [CQW03]. **Accelerated**
 [GK05]. **Acceleration** [MO09, SS09a].
Acoustic [HH01, HLTT08, Mei08].
Acoustical [BV08]. **Acoustics** [KP08].
Across [O'D08]. **Activity** [PSF05]. **Adams**
 [DE06]. **Adaptive** [KS09c]. **Additive**
 [DS05]. **Adhesion** [NT08]. **Adiabatic**
 [AMP05, MP01, NN01]. **Adjoint** [EL02].
Adjoint [FWH02]. **Admissibility** [Hat00].
Admissible [FN05]. **Affine** [Joh03]. **after**
 [FMP05]. **Age** [Wal09a]. **Age-** [Wal09a].
Agents [BFG04]. **Aid** [PS00]. **Algebraic**
 [BW08]. **Algebras** [FS09]. **Algorithm**
 [CN06, Ish05]. **Algorithms** [Han08]. **Allen**
 [Tan07]. **Allocation** [DZ08]. **Alloys**
 [MPP09, Ste05, Vis09]. **Almost**
 [DGG00, HS02]. **Along** [AH07]. **Alternate**
 [BGSZ01]. **American** [BX09, CC07].
Ampère [JW07]. **Amplitude** [AIM03,
 HK00b, LLYZ03, MZ05b, Sun01, YZ09].
Anal [HKS07, Pla09b]. **Analysis**
 [ABV06, BK05, BX09, BDV03, BV00a,
 BNG04, BMR09, CCG05, CFTV03, CJ04,
 CC07, CCCS06, CE07, DGG08, DLY07,
 FFH02, Fou06, FMS03, GIK05, KO00,
 KS09c, Mac04, MB08, Pel01, PRS08, San05,
 Ste05, Wan08, Zui00, BC06a]. **Analyticity**
 [HN05]. **Angiogenesis** [FFH02]. **Angle**
 [II01]. **Angular** [Cla00]. **Anharmonic**
 [Joc00]. **Anisotropic**
 [AMSW05, BK04, CN06, FMP09, KN00,
 KS06a, KP07, Kyr04, MP03, HL02b].
Anisotropy [AG01a]. **Annealing** [CHK08].

Annulus [Lou06]. **Any** [Lie05].
Application [Bra05, Bri03, BST05, BLM09,
 BFK03, CCM07, CR06, CF03, Dal07,
 DLY07, HM09b, KK08b, LW09, ZD00].
Applications [ACFS09, BL03, BL01, BN08,
 Car03, COV02, FLT09, HH01, IV04, KK08a,
 MVNO08, NW03, NS04, SS09b, Tra06].
Approach [Bos00, BV02, DS06, HM09a,
 JN04, KY04, Len08, MO09, NS09, Ryb01].
Approximate [FC06, Lay07].
Approximation [AMP05, AFM01,
 ABDG04, AG01b, BN02, BBP05, BGL07,
 CGZ09, COV02, DP03, FS01, GP04, HS08,
 II01, IM04, Kei01, KS03b, MPP09, Rou03,
 TTX03, Wil09, Wri05, Yoo01].
Approximations [BPR00b, BFP08, BC06b,
 CP00, CL09, KN09, TT00]. **Arbitrary**
 [GW07, Lie05]. **Arc** [BPR00a, BPR00b].
Area [BS05, Yua06]. **Argument** [LWS05].
Arise [DZ08]. **Arising** [BV00a, Bla06,
 CCG05, CF00, DLS05, El 07, KKS02,
 LS00, NK08, Osh04, YYW08, Yoc07].
Ascending [SW08]. **Aspects** [FG09].
Associated [CR03, CHK08, Ped06].
Assumption [CLR02, Pla09b].
Asymptotic
 [ABDG04, AK03, BF06, Bou08, BLM09,
 CGL04, CLGZ06, CEGMM09, CT09, Cui08,
 Dal09, DN09, DG00, DD02b, DKP07,
 Dun01, FM01, Joc05, KPS09, KY04, Lóp00,
 Mar06b, Mos05, Nak03, Nis02, NN01,
 PLN02, QW00, SS03b, SW08, SZ00, Sug09,
 Tsa07, Wan08, WC09]. **Asymptotically**
 [LRRBS09, Nak01]. **Asymptotically-Free**
 [Nak01]. **Asymptotics**
 [Bjo08, CFG06, GPV00, JN04, Joc00, Kag01,
 KS09a, MNR05, MV07, Miz01, PS00,
 dMKST09, vBPW08, EGW06]. **Attainable**
 [AG02]. **Attraction** [Ria04]. **Attractors**
 [HZ03, MZ05a, MPS05, MPS06, Rob00].
Aubry [Gom03]. **Autocatalysis** [CQ07].
Avascular [CE07]. **Average** [Sun07].
Averaged [HL06]. **Averages** [BG08].
Averaging [KY04, Wes02]. **Away**

- [LLLY04]. **Axially** [Kan04, SZ07].
Axisymmetric [LW09, SZ05].
- B** [AH07, FG09]. **Background** [KS05a].
Backscatter [HHR09, HHR11]. **Balance**
 [FL00, GMS09, MP03]. **Balian** [BCP06].
Banach [FHW02]. **Band** [NW04].
Band-limited [NW04]. **Bandlimited**
 [KP05]. **Based** [DY00, DLY07, FKK09,
 FMS03, HKP07, HSZ03a, HSZ03b, MCP08].
Bases [AS00, KS05b]. **Basic** [FG09, Grü03].
Basis
 [BCR01, LYY07, NW02, NW04, Yoo01]. **BC**
 [Bel03]. **BC-Method** [Bel03]. **Be** [FG09].
Beams [FMP09]. **Bearing** [WNW07].
Bearings [CJT09]. **Before** [BV05].
Behavior
 [BS00a, BS01, BK00, BDK09, CQW03,
 CEGMM09, CA00, Dal09, DS06, DG00,
 DD02b, DS05, Gev08, Han01, Hat03, Joc05,
 LRR06, LP08, LXY00, MV05, Nar08, NN01,
 PLN02, SS03b, Tak00, Wan00, WZF08].
Behaviors [Sug09]. **below** [VZ07]. **Bence**
 [Ish05]. **Bending** [Wan08]. **Benjamin**
 [MST01]. **Besov** [Wu05]. **Bessel** [Dun01].
Between [FM09, Miz03]. **BGK** [CS06]. **Bi**
 [Li05]. **Bi-isotropic** [Li05]. **Bifurcation**
 [CE07, DGG08, Du00, FL00, FH07, Hur06,
 KKS08, KA00, Rob00, SS08].
Bifurcations [BPBW05, BW08, KS02a].
Bilaplacian [DDGM07]. **Billiard** [Pla09a].
Binary [Vis09]. **Bioelectric** [PSF05].
Biofluid [CCS07]. **Biorthogonal** [RTW01].
Birefringent [LP00]. **Birkhoff** [BB05].
Birth [FM04]. **Bistable**
 [BCC03, DIN04, Tsa07]. **Black** [Cré03].
Blatz [CP07b]. **Bloch** [COV02, MH01].
Blood [MOPMW06]. **Blow**
 [CCM07, EGW06, FMP05, Kim06, LP08,
 Mas01, MV05, WY08, YCL01]. **Blow-Up**
 [Kim06, LP08, WY08, YCL01, CCM07,
 EGW06, FMP05, Mas01, MV05]. **Blowup**
 [Esp05, HK06, Jen00, KLVZ09, VZ07, YZ05].
Body
 [AMR02, BFV08, BCV06, CL04, PP04].
Bogdanov [Sti00]. **Boltzmann**
 [Li11, FKW06, Li09, MT07a, Nis02]. **Bolza**
 [CP07b]. **Bose** [AB06]. **Bottle** [KRS09].
Bound [DW05, KPS09, LM08, LW08].
Boundaries [BMR09, MV07]. **Boundary**
 [Abd03, AG01a, AMR02, AD05, AH07,
 ABDG04, ANR09, AG02, AMRT09, BX09,
 BIY08, BFV08, BFG04, BV00a, BGM08,
 BL01, BW04, Bos03, Bos05, BV02, BFK03,
 CKK06, CK01a, Cas03, CF00, CF03, CC07,
 CE07, Cui08, Ebm00, EGG03, FH01, FP02,
 FS05, FH07, GIK05, GIK08, Gev08, Gor02,
 GJT06, Gui07, HR08, HP09, HMS03,
 HMS04, IV04, II01, JZ09a, KY03a, Kel06,
 Kry03, LLLY04, LS00, LP08, LCS03, MS04,
 MV05, NS07, NK08, PP04, PLN02, PP00b,
 PRS08, RW08, SR09, SS09b, WC09, YZ09].
Bounded
 [Bou00, GM01, Kel06, Mik09, ZS02].
Bounds [CWM08, DP05, Lay07, Lie05,
 MM05, ORS06, YZ09]. **Bourgain's** [MR02].
Bourgain's-Type [MR02]. **Bramble**
 [DL04]. **Branches** [Mar06a]. **Breaking**
 [GZ09, KKS08, Tov08]. **Bridge**
 [Din03, Moo02]. **Brittle** [BD09]. **Brownian**
 [BDK09, DMPD09, FM04, Kry03]. **Bubble**
 [BV00a]. **Bubbles** [AHM09]. **Buckley**
 [vDPP07]. **Buckling** [HM09b, Pel01, Vui03].
Buffered [Tsa07]. **Bulk**
 [Bab08, CS07, SS03a].
Bulk-Superconductivity [SS03a].
Burgers [El 07, KMX08, KT01].
Burgers-Type [El 07]. **Bursts** [PS06]. **BV**
 [CRTW05].
C [FG09]. **C1** [HNZ06]. **Caffarelli** [DGP04].
Cahn [EGW06, Tan07]. **Calculus**
 [DS08, OW05]. **Calderon** [Bel03].
Calibration [Cré03]. **Call** [YYW08].
Camassa [Bjo08, dMKST09]. **Canard**
 [KS01]. **Capillary** [CN00, FS03, FS05,
 GW07, KP07, Sch05, Wah06].
Capillary-Gravity [Wah06]. **Carleman**

[Zha08]. **Cascade** [Han08]. **Case** [Bou08, CY04, DFLM09, FH01, Fou06, GG07, Hat00, Ing00, Pla09a, WXM06]. **Cases** [BD09]. **Casimir** [Rei01]. **Catastrophic** [Dum03]. **Cauchy** [CD01, CG08, CA00, Mik02, MR02, PP03]. **Cell** [BFG04, MOPMW06]. **Center** [FHW02, Kri04, KS00]. **Certain** [BS08, DD02a, KK02, KK05, MV05, Nis02]. **Chain** [HKP07]. **Changing** [WXM06]. **Channel** [LS01]. **Channels** [Cla00, EL07]. **Chapman** [LZ03]. **Character** [LLYZ03]. **Characteristic** [Tra06]. **Characterization** [Auc06, Brü01, KLVZ09, LW09]. **Characterizations** [Kyr04]. **Characterizing** [Pro00]. **Charge** [FG09]. **Charged** [CCD02]. **Charges** [EL07]. **Chemical** [FGHS07]. **Chemosensitive** [HKS05, HKS07]. **Chemostat** [WNW07]. **Chemotactic** [Wan00]. **Chemotaxis** [BDDS06, Dun00, TW09, Wan00, YCL01]. **Chemotaxis-haptotaxis** [TW09]. **Chip** [CF01]. **Chromatography** [ACFS09]. **Chronic** [MOPMW06]. **circles** [FKW06]. **Circular** [AK06, BV00b]. **Clamped** [CMM06]. **Class** [AS06, AG02, BP07, CK01a, CP07b, CD01, DIN04, DFM09, DZ08, Gev08, Gui07, HR06, Le05, RW00b, VZ07, vDPP07, Mus05]. **Classical** [BPR00b, LZ05, Lil07, WW07]. **Close** [LMR08, SS03a]. **Closure** [DE00]. **Cluster** [WW02]. **Coagulation** [BL07, LLW03, LW05, MP05]. **Coagulation-Fragmentation** [LW05]. **Coal** [MB08]. **Coarsening** [CNO06, DP05, ORS06, Sle08]. **Coast** [JLP06]. **Coefficient** [KS02b]. **Coefficients** [Ban03, BIY08, CK01a, CY04, CR05, GJX08, KMS07, KK07, Kry09, Mal00, WZF08]. **Coercive** [San05]. **Coexistence** [Dun00, HS02]. **Coinciding** [Bia01]. **Collisions** [CGL08, HT09]. **Column** [CM98, CM00]. **Combined** [TW09]. **Combustion** [Ala06, BW04, Du00, LZ03]. **Comment** [Pla09b]. **Compactly** [DGH00, HS08]. **Compactness** [BCD05, Rei01, SR09]. **Comparisons** [BPR00b]. **Compartmental** [MVNO08]. **Competing** [HLMP03]. **Competition** [FKK09, GR03, HS02, MT09]. **Competition-Diffusion** [MT09]. **Complete** [LRRBS09, Pro00]. **Completeness** [Pan09]. **Complex** [BBP05, KPT09, MT03, UW07]. **Complex-Valued** [MT03]. **Compliance** [KS02b]. **Composite** [BV00b]. **Composites** [BN02, Gra09]. **Compositions** [CDD03]. **Compressibility** [Ste04]. **Compressible** [AS07, CZZ07, FS00, GJX08, HZ03, Hof06, HW09, HMS03, HMS04, JNS06, JZ09a, KK04b, LXY00, MP01, MV08, NN09, NN01, NYZ04, PLN02, PW08, Per06, PRS08, QW09, WX05]. **Computation** [DKS02, ZD00]. **Computer** [AFM01]. **Concentrated** [BBP05]. **Concentrating** [DW05]. **Concentration** [DF06, DH08a, DH08b, MM05, Rei01, Tzi06]. **Concentration-Compactness** [Rei01]. **Concentrations** [Lip06]. **Concept** [BCN02]. **Condensates** [AB06]. **Condition** [Cas03, FLP05, Hat00, HSZ03a, HSZ03b, HK00b, II01, Kim09, MW09, MV05, Oga03, SZ07, Kim13]. **Conditions** [ANR09, AMRT09, Bos03, Cha06, Ebm00, EGG03, GIK05, GIK08, GJT06, HR06, HR08, IV04, Kel06, Lew01, Lew05b, Mar08, MS04, NRJ07, O'D08, Pis04, Xu04]. **Conducting** [Gra09, JNS06, JZ09a]. **Conductivities** [KY03a]. **Conductivity** [AG01a, AK03, Bri03, Gra09]. **Conductors** [Lip01]. **Cone** [GH09, KK08b]. **Configuration** [God09]. **Configurations** [GV00]. **Confined** [CCD02]. **Confinement** [AMP05]. **Conic** [GH09]. **Conjecture** [AH07]. **Conjugate** [HM09b]. **Connected** [EK08]. **Conservation** [CWY09, CR05, CHS08, CS06, Dal07, Ha01, HY03, HL02a, HL02b, IV04, Jen00, KL02, Laf04, Lew05a,

LS03, LT01, Nak03, NT08, Pan09, Roh05, Rou03, SP07, TT00, TTX03, vBPW08].
Conserved [Lau02]. **Conserving** [CGL08].
Constant [CG00, LM09]. **Constrained** [Ped00]. **Constraint** [BPBW05, CS07, LP08, MST07].
Constraints [BFG04, PS09b]. **Contact** [BJ09, KS02b]. **Containing** [CO05, Lew05a].
Continuation [CL00, HK00a, HW03, Isa01, Lil07, MH06, NW03]. **Continuity** [ACFS09, JW07, KK02, KK05]. **Continuous** [FLT09, Han08, Ing00, JJS00, Pon07].
Continuum [AC04]. **Contracting** [MPS06].
Contraction [OW05]. **Control** [LP08, Rou06, VZ09]. **Convected** [GP05, GP06]. **Convection** [CY04, ZY00].
Convergence [ABV06, BL06, BN08, BCM00, BO07, BCD05, CN06, CMS04, CHK08, God09, GR03, GWZ09, GK08, GK00, H SZ03b, Hor08, HW02, Ish05, KMX08, LYY07, MP03, MP05, NN09, NS05, Ped04, Pot07, TTX03, aLW09].
Convex [DL04, DGG00, Hwa04, JS02, KS05a, Bab08].
Convexified [IM04]. **Convexity** [DS08].
Convolution [LT01]. **Coordinates** [Lee09, Ste04]. **Copolymer** [RW03, RW05, RW08]. **Cord** [BFG04].
Cores [PS06]. **Corrected** [CM00].
Corrections [Wil09, Wri05]. **Correctors** [DFM09]. **Correlations** [BBN08].
Corrigendum [Kim13]. **Cortex** [CMS04].
Couette [KTvW05]. **Coulomb** [Ren06].
Coupled [BS08, GW06, Kov08, Sch02].
Coupling [BNR05, HR06]. **Couplings** [LAJ08]. **Crack** [BFV08]. **Cracks** [Gia05, Ron05]. **Criteria** [BK02]. **Criterion** [CCM07, DdlL00, Hat00, Kim06, LHK07, LTT03, Ren06]. **Critical** [AH08, CCP07, CNO06, CA00, DD02b, GPV00, HK06, HK00b, KLVZ09, LM08, LW08, LT01, SS03a, VZ07, WW02]. **Cross** [BV00b, CJ04, GJV03, Le05].
Cross-Diffusion [CJ04, GJV03].
Cross-Section [BV00b]. **Crossings** [KL08].
Crystal [Pon07]. **Crystalline** [CN06, GGH05]. **Crystals** [CGLL02, CP07a, GV00, LP07, Pan06].
Current [BNR05]. **Currents** [Alm08, JS02].
Curvature [BCQ01, CN06, II01, IM04, Ish05, Nar08].
Curve [Du00]. **Curved** [JLP06, MV07].
Curves [DKS02]. **Cusp** [HP09]. **Cylinder** [FS00, PP00a]. **Cylindrical** [JZ09a].
D [Kim13, Bos03, CF01, FH01, Kim09, LY05, MPP09, ST01]. **Dafermos** [LS03].
Damkohler [MDvD06]. **Damping** [DP09].
Darcy [Váz03]. **Data** [BIY08, Esp05, GH08, Lor00, NS07, NW02, NW04]. **Davey** [VA03].
Dead [PS06]. **Decay** [AGSS00, Bjo08, BY04, Deu09, HZ09, JM08, KK08b, Nak03, PP00b, Sch09, WY08].
Decomposition [JT09]. **Deconvolution** [DE06, Lay07]. **Decrease** [SS03a]. **Deep** [Hur06]. **Deep-Water** [Hur06]. **Definite** [BBW09]. **Defocusing** [KPT09].
Deformable [TY05]. **Deformations** [LL05]. **Degasperis** [WY08]. **Degeneracies** [DD02a]. **Degeneracy** [Xu03]. **Degenerate** [BK04, BK00, BFK03, GW06, HLMP03, PV05, Ria04, Sch08, Tak00, WZF08].
Degenerate/Singular [PV05]. **Degree** [CGLL02]. **Delay** [BK02, CLGZ06, LRR06, STZ02]. **Delayed** [HW03, LWS05, OW07, SZ00, WLW09].
Delays [CLGZ06]. **Delivery** [FP02].
Denoising [All08]. **Densely** [BN02].
Density [BIY08, DZ03, GP05, GP06, GJX08, PV05].
Density-Dependent [GJX08]. **Dependent** [BK02, Ble08, BMR09, CR05, Deu09, FMS03, GWZ09, GJX08, Sac04]. **Depth** [Sun01]. **Derivation** [CMM06, MCP08, PW08]. **Derivative** [CKS⁺01, CKS⁺02, GH08, HNS08, KK08b].
Derivatives [AGSS00, BG08, PP00b].
Derived [IK01]. **Dermal** [FP02]. **Derrida**

[JM08]. **Describing** [BFG04, FM09, Joc02]. **Description** [AK06, Mei08]. **Design** [Ped00]. **Deslauriers** [dVGH03]. **Destabilization** [DIN04]. **Detecting** [AMR02]. **Determination** [AD05, BFV08, CGL08, CY04, KY03a, NS07, Sin06]. **Determining** [AG01a, BIY08, CK01a, FPR04]. **Deterministic** [Sch05]. **Development** [AK00]. **Devices** [GG07]. **Diameter** [AK03]. **Diblock** [RW03, RW05, RW08]. **Dielectric** [AKS06, SZ05]. **Diffeomorphisms** [ESG05]. **Difference** [BW08, Mal00, PR01]. **Difference-Algebraic** [BW08]. **Differentiable** [DP03, SZ04]. **Differential** [BPBW05, BK02, BLM09, CLGZ06, GH03, GG07, GR03, HKP07, KS06a, KKS02, KK07, KW01, KO00, LWS05, LTT03, LR09, MVNO08, NOV09, Pal09, WCD07, WLW09]. **Diffraction** [AR03, BL03]. **Diffusion** [AK00, Abd03, BDR09, BNR05, Ble08, Bos00, BDDS06, CCK07, CJ04, CQ07, CEGMM09, DE09, DFG02, FGHS07, GPV00, GJV03, GIK05, GIK08, GH05, HKM08, HS02, JZ09b, KL02, LRRBS09, Le05, Li08, MT07a, MB08, MT09, NRJ07, Osh04, Roh05, SZ00, Váz03, Wan00, WXM06, WW02, YCL01]. **Diffusion-Dispersion** [KL02, Roh05]. **Diffusions** [BX09, FLT09]. **Diffusive** [FGQ04, KT01, MP01, Sch00]. **Diffusivity** [BDR09]. **Dihedral** [EK08]. **Dimension** [Bab08, BGM08, CD08, HIN04, Mar06a, Mas01, Ryb01, Tzi06]. **Dimensional** [Ali03, ABV06, BCR01, Bel03, BCV06, BKL04, Cas03, CWY09, CGZ09, CY04, CN00, CS06, DFLM09, DG09, ET09, FLP05, Fil07, HK00a, HT09, HZ03, HP09, HL02a, HL02b, JNS06, KS09a, Kim02, KSS02, LZ05, LP02, Lim02, LP09, MT03, MV08, MH01, Nak03, NS09, NS04, PLN02, Pin00, Pla09a, RW03, Sac04, SZ09, Xu04, Yua06]. **Dimensions** [FLT09, Kan04, KS01, Lie05, VZ07, Zha03a]. **Diode** [GSZ04]. **Dirac** [Bou08]. **Directional** [Bri03, KS09c, Zui00]. **Dirichlet** [AMRT09, CY04, EK08, HN05, Ing00, KY03a, KM01, MS04, ZY00]. **Dirichlet-to-Neumann** [Ing00, KY03a]. **Discontinuities** [Tra06]. **Discontinuity** [AFM01, CWY09, Mor03]. **Discontinuous** [CR05, KS02b]. **Discrete** [AC04, CT09, Ing00, JJS00, Kat05, KPS09, LAJ08, Mac04, Nis02, Pon07, RL06, VA03, FKW06]. **Discrete-Time** [LAJ08]. **Discretization** [Lim02]. **Discretizations** [GH03]. **Disk** [KS09a]. **Dislocation** [BCLM08, El 07]. **Dislocations** [CL05, FM09, GM05, Pon07]. **Disorder** [CP07a]. **Dispersion** [Ban03, KL02, Kur04, MJZ04, Roh05, WZ05]. **Dispersion-Managed** [Kur04]. **Dispersive** [CL09, GZ09, KS07, MR02, Pro02, Sze05, Mus05]. **Displacement** [BF06, DS08]. **Dissipation** [Lay07]. **Dissipative** [BNR05, Cha06, HNS08, MR02, SS03b, Tra06, Wu05, WY08]. **Distance** [CDJ08, DS08, OW05]. **Distribution** [AH07, Bri03, GW07, The04, Van01, Van85]. **Distributional** [JJS00]. **Divergence** [Kry09]. **Divergent** [LY09]. **Domain** [ABDG04, AC07, CCK07, Fil07, FLM01, GG00, GP05, GP06, Hwa04, Kel06, Kim02, Mik09]. **Domains** [Ble08, CLR02, DL04, DG00, Ebm00, EK08, Han01, HR08, HN05, KK04a, KS09b, MV07, NRJ07, Pla09b, Ria04, WCD07]. **Dominant** [MDvD06]. **Doniach** [BK05]. **Doping** [WXM06]. **Doppler** [Pal09]. **Doring** [LZ03]. **Double** [MPS05, MPS06, Sac04]. **Double-Well** [Sac04]. **Doubly** [EK08, Vis07]. **Down** [GK08]. **Drift** [BNR05, BDK09, WXM06]. **Drift-Diffusion** [BNR05]. **Driven** [DDT04, DFG02, GSR05, LR09]. **Droplet** [Grü03, ORS06]. **Drug** [FP02]. **Dual** [CDY04]. **Duality** [BV02]. **Dubuc** [dVGH03]. **Ducts** [Yua06]. **Duffin** [Nik01]. **Dynamic**

- [BJ09, EGG03, KS02b, MN00, MP08, SZ09]. **Dynamical** [BS08, DS06, IWY08, LAJ08, MZ05a, MP05]. **Dynamics** [AG01b, BCC03, BV05, BV00a, CK01b, CFG06, DLS05, DKP07, El 07, Fil07, FM09, GW07, GSZ04, HW02, JZ09b, KK08a, KGB06, Lim02, NT08, Tri08, Wan00, WCD07]. **Dynamo** [GV05].
- e-MHD** [PW08]. **Ecological** [GH03]. **Ecology** [FKK09]. **Eddy** [DE06]. **Edge** [CDY04, KS02a]. **Effect** [AM05, GV05, Gra09, Pan03, WNW07]. **Effective** [BBP05, Gra09, NRJ07, WCD07]. **Effects** [DD02a, Gia05, Wan00, Xu03]. **Eguchi** [HIN04]. **Eigenvalue** [BCN05, EK08, HKK01, Rob04]. **Eigenvalues** [EL02, JN04, JLP06, KM01, KS03a, PS08a]. **Eikonal** [MT03]. **Einstein** [AB06]. **Elastic** [AMR02, Are01, BL06, BF06, BFV08, BJ09, CP07b, CCS07, CMM06, DKS02, Gra08, HM09b, LL05, Pon07]. **Elasticity** [Hor08, KN00, Kim00, MH06, NW03, SS09b, UW07, Wan08]. **Elasto** [Mie04, NK08]. **Elasto-Plasticity** [Mie04, NK08]. **Elastodynamics** [Rie03]. **Elastoplasticity** [Ste08]. **Electric** [Alm08, HHR09, HHR11]. **Electrical** [Brü01, KKS02]. **Electromagnetic** [AN00, AKS06, Joc05]. **Electronic** [FG09]. **Electrostatic** [GG07, Li09, Li11]. **Element** [BFP08]. **Elementary** [HM09a]. **Ellipse** [BPR00a]. **Elliptic** [AGGM05, BCV06, Bla06, BV00b, CF03, CE07, DRY07, DG00, DLS05, Du00, Ebm00, GW09, KMS07, KY03b, KK04a, KK07, LYY05, Lip01, Lóp00, MG05, NK08, Osh07, PR01, PS06]. **Elliptic-Hyperbolic** [CF03]. **Elliptical** [BPR00b]. **Emission** [MN00]. **Energetic** [MT07b]. **Energies** [AC04, Bab08, DF06, Ort06]. **Energy** [BL06, BCM00, CGL08, CL05, CS07, CM06, CR03, CO05, GP05, GP06, HLT08, Joc05, KTvW05, KS09b, Lay07, Li09, Li11, LL00, MS06, MM05, Pon07, Rei01, RL05, ST08, VZ07]. **Energy-Casimir** [Rei01]. **Energy-Conserving** [CGL08]. **Enhanced** [MB08]. **Ensemble** [DN09]. **Entire** [MT09, WLW09]. **Entries** [JN04]. **Entropy** [BK04, CD01, Hat00, Pan09, vDPP07]. **Equation** [AMSW05, Abd03, AH08, AP06, ABDG04, AMRT09, BL07, BV08, BNP06, BD06a, BC05, BD02, BFK03, CCG05, CW00, CQW03, CO06, CHK05, CCP07, CDM08, CT09, DW05, DDT04, DG09, Esp05, FH07, GPV00, GG00, GH08, GJT06, GW09, GZ09, HIN04, Han01, HNS08, JW07, Joc05, Joh09, JP00, JM08, JM09, JLM01, Kag01, KK08a, KMX08, KK08b, KKS00, KS06a, KPS09, KT01, KKS02, KY03b, Kim05, KN09, KPT09, KP08, Kry01, Kry03, Kur04, LLW03, Lau02, LW05, LRR06, Len08, LL06, Li09, Li11, LP09, LW09, MT03, Mal00, MS04, Mik09, MJZ04, MR02, Moo02, Nak01, Nis02, NS04, OT07, PP03, Piv00, Sac04, SS09a, Sze05, Tak00, Tzi06, VA03, VZ07, Wu05, WY08, Yin04, dMKST09, vDPP07, EGW06, FKW06]. **Equations** [AK00, ACFS09, AS07, AGSS00, AG01b, BT07, Ban03, BDR09, BS00a, BS01, BCLM08, BPBW05, BW08, BCN02, BK04, BV05, BS00b, BK00, Bjo08, Bos00, BC06b, BG08, BKL04, BLM09, BSB03, CCM07, CK01a, Car03, Cha06, CM01, CD01, CL03, CMZ08, CCS07, CT08, CP00, CKS+01, CKS+02, Coo00, CMJ09, CA00, CF06b, DGP04, DS06, DLS05, DGG08, DS05, DFM09, DMPD09, EGG03, ET09, Fou06, FS00, FC06, GZ00, GH03, GG07, Gom03, GP04, GR03, GWZ09, GK05, HKP07, HK06, HZ03, Hof06, HL06, HZ08, HKS05, HKS07, Ift02, IL05, JJS00, JNS06, JZ09a, KK02, KK05, Kel06, Kim02, KK04a, Kim06, KK07, Kim09, Kim13, KW01, KKS08, KA00, KS07, KPT09, KO00, LWS05, Li05, LY05, Lil07, LP02, LW08, Lip01, LTT03, Loe06, LS01, LCS03]. **Equations** [LR09, LXY00, Mar08, Mar06b, MV08, MH01, MP05, MS06,

MB08, Mik02, MR04, Miz01, Miz03, MST01, MST07, MT09, MVNO08, NYZ04, Nob09, NOV09, PW08, Per06, Pin00, PRS08, PS06, QW09, SW09, Sch00, Sch08, SZ07, ST01, SZ00, Spi03, Tan07, VZ09, Váz03, WX05, WCD07, WLW09, WZF08, YCL01, YZ05, Zha03b, Zha08, vdBHV01, BC06a, Mus05].

Equidistributed [CF06a]. **Equilibria** [CJT09, FL00, MR08, Ort06, PS08b, Ria04]. **Equilibrium** [GV00, GWZ09, HZ09, NS05, Wal09a]. **Equivalence** [JLM01]. **Equivariant** [AHM09]. **Ergodicity** [GK08]. **Erratum** [HHR11, HKS07, KK05, Li11, Van01]. **Error** [BN02, BGL07, Laf04, NW02, NW04, TT00, Wil09]. **Errors** [JWW07]. **Estimate** [BY04, CCM07, Laf04]. **Estimates** [BGL07, CQ07, CD08, HH01, JW07, KM01, KK08b, Lor00, NW02, NW04, PV05, SS09b, TT00, Wil09, Zha08]. **Estimation** [Rou06]. **Euclidean** [BGL07]. **Euler** [ABR00, Ali03, BCN02, CL03, CZZ07, CT08, ET09, HL06, Kim02, Lil07, Loe06, NT08, PW08, Yua06]. **Euler/Euler** [NT08]. **Eulerian** [DS08, OW05]. **European** [YYW08]. **Evaluation** [BCR01, CDD03]. **Evans** [BGSZ01, KS02a]. **Evolution** [AMRT09, BFG04, CGLL02, CWY09, DKS02, GL08, GP05, GP06, BC06a]. **Evolutionary** [MT07b]. **Exact** [Du00, Gra09]. **Exactly** [MC01]. **Example** [BCP06, Dum03]. **Exchange** [Joc05]. **Excited** [KW01]. **Exclusions** [Tor04]. **Exercise** [BX09, CC07]. **Existence** [AS06, ABR00, Ali03, BCLM08, BR06, BS00b, Bos05, Cas03, CDJ08, CWM05, CdMGK09, CT08, CJT09, CEGMM09, CDM08, DZ03, DH08a, DKS02, EM09, ET09, Fig07, FM09, GH05, Gra08, Hat03, HKP07, Joc02, JLP06, JM08, Kat05, Kur04, LZ05, MT03, MV08, MN05, MS06, Mie04, MPP09, MB08, Mus05, Per06, PS09b, Pis04, Rög05, RL05, ST08, Sch09, SZ09, ST01, Sun01, WW07, YCL01]. **Expanding** [GGH05, MPS05]. **Expansion** [Bou00, KY04]. **Expansions** [AL06, AK03, CDD03, Dun01, GK00, Lóp00]. **Explicit** [BCN05, Brü01, CWM08, DZ08, FG09, ZD00]. **Exponent** [GPV00, GW09, HK00b]. **Exponential** [AGGM05, DDGM07, HZ03, KMS07, MV05, NOV09, QW00]. **Exponents** [LM08]. **Extended** [HM09b]. **Extending** [BGL07, KS01]. **Exterior** [GG00, KN00, MS06]. **External** [DO09]. **Extinction** [HS02]. **Extra** [FM04]. **Extracting** [CDY04]. **Extremal** [BD09, EK08].

F [FG09]. **Faber** [DK08]. **Factorization** [RTW01]. **Families** [CL04]. **Family** [CL00, FPR04]. **Far** [Sin06]. **Fast** [BCR01, GPV00, Váz03]. **Fast-Diffusion** [GPV00]. **FDEs** [FHW02]. **Feedback** [HW03, STZ02]. **Feline** [FLM01]. **FeLV** [FLM01]. **Fermion** [NS05]. **Ferromagnetism** [Joc02]. **Fiber** [BD09, Gra09, GK08, LP00]. **Fiber-Reinforced** [Gra09]. **Fibers** [BV00b, Bri03]. **Field** [BF06, DP05, DD02b, DO09, GSR05, GM05, GP04, Joc05, KSS02, LP07, Lip06, SS03a, Sin06, Wan08]. **Field-Induced** [LP07]. **Fields** [Lee09, LW09, Pan03, Sch02]. **Film** [BL06, BS00b, CD08]. **Films** [CM06, DD02b, GW06, Hor08, Pan03]. **Filtration** [BFK03]. **Finance** [FLT09]. **Finite** [BFP08, FLT09, FS01, Grü03, HZ03, KGB06, Mie04, Sun07, YZ05, dVGH03]. **Finite-Dimensional** [HZ03]. **Finite-Time** [YZ05]. **First** [Abd03, CCCS06, EK08]. **Fixed** [AIM03, Pro01]. **Flat** [LYY07, Tak00]. **Flow** [AC08, AHM09, BR03, BNP06, BDV03, CP07a, CN06, CGZ09, CGP05, DMP06, EKK09, FLP05, FS03, FS05, GH09, GGH05, HR06, HZ03, Hof06, HP09, KTVW05, MP01, MDvD06, Nar08, NN01, Oga03, Rög05, Sch08, IM04]. **Flows** [Ala06, AS07, Amo01, AHT03,

BFP08, BMR09, CCG05, CR06, CR03, CZZ07, CF01, Deu09, DE06, EM09, ESG05, FMS03, FS00, FM01, GJX08, HW09, JZ09a, Kan04, KK04b, Lin03, LY09, MR04, MT08, Ort06, Per06, SS03b, Sch09, Sun01]. **Fluid** [AG01b, Dal09, DLS05, Gra08, HT09, HP09, MP08, MT08, NN09, Per06, Rou07, ST08, Sun01, WC09]. **Fluids** [BP07, BMR09, CR06, CM01, CL03, FMS03, FGM05, FS00, HZ09, JNS06, ZZ08]. **Flux** [AC07, Cas03]. **Focus** [BD06b]. **Focusing** [Dum03, KLVZ09, VZ07, SZ05]. **Fokker** [Kag01]. **Fold** [KS01]. **Food** [OW07]. **Food-limited** [OW07]. **Föppl** [CMM06]. **Forced** [BB08, DS05, HK00a, LLYZ03]. **Forces** [CL05, WX05]. **Form** [Kry09, Pal09, QXM08, Xu04]. **Formal** [FHW02]. **Formalism** [Fra07, LL05]. **Formation** [CdMGGK09, CL03, CWY09, HP09, HW03, Ren00, Vis09]. **Forming** [DS09]. **Forms** [BW08]. **Formula** [BF06, BCQ01, QW00]. **Formulation** [Dal07, IV04, MT07b]. **Formulations** [Wan08]. **Four** [BCR01]. **Four-Dimensional** [BCR01]. **Fourier** [FN05, FS09, PN08]. **Fourth** [AGGM05, GB04, GJT06, GW09, JP00, SW09, vdBHV01]. **Fourth-Order** [JP00, GJT06]. **Fractal** [KMX08]. **Fractional** [DMPD09, TTX03]. **Fragmentation** [LW05]. **Frame** [Che00]. **Frames** [Joh03, NPW06]. **Framework** [BL03]. **Free** [AFM01, BFG04, BV00a, BW04, BFK03, CKK06, Cas03, CF00, CF03, CE07, Cui08, FH01, FP02, FH07, Gor02, Gui07, HMS03, HMS04, KS03b, LS00, Li09, Li11, MS04, Mor03, Nak01, PP04, PLN02, RW08, WNW07, WC09]. **Free-Boundary** [Cas03]. **Free-Discontinuity** [Mor03]. **Freezer** [KRS09]. **Frenkel** [QXM08]. **Frequency** [AN00, AIM03, Fou06, KS05b, Mac04]. **Freudenthal** [HNZ06]. **Friction** [FLP05, Kim09, Kim13, KS02b, Ren06]. **Frictional** [DP09]. **Friedrichs** [BL01]. **Front** [Laf04]. **Front-Tracking** [Laf04]. **Fronts** [DIN04, GR00, GR03, Sch05, Tan07, Tsa07]. **Fuel** [The04]. **Full** [QW09]. **Fully** [Gor02, IK01, KA00, Loe06]. **Function** [BPR00a, CDY04, DGH00, FPR04, KS02a, Kyr04, PS00, YZ09, Yoo01]. **Functional** [ABV06, BNP06, BDK09, BSB03, CRTW05, CO05, CMS04, DGG08, DO09, GR03, KTVW05, Lew05a, LTT03, MVNO08, NOV09]. **Functionals** [BN08, CH06, CF06a, MM05, Mor03, Rei01, Tzo06, Zag05]. **Functions** [Auc09, BCR01, BGSZ01, Can01, CGL04, CDD03, CLR02, CDY04, Dun01, EL02, Han08, KO00, MV05, NW02, NW04, Pla09b, Pro00, ZS02]. **Fundamental** [HKK01]. **Gamma** [BL06]. **Gamma-Convergence** [BL06]. **Gap** [CGL08, MM05]. **Gas** [BV05, HW02, HMS03, HMS04, PLN02]. **Gas-Solid** [HMS03, HMS04]. **Gases** [Bou00, GSR05]. **Gauss** [IM04]. **Gaussian** [DLY07, RW00b]. **Gaussian-Based** [DLY07]. **General** [AC04, BL03, Bri03, FHW02, Gra09, KS05b, MZ05b, WXM06]. **Generalizations** [BD02]. **Generalized** [BPR00a, CHK05, CCP07, Cré03, DS06, Dun01, Joh09, KTVW05, KO00, LL06, Mar06b, Miz01, Miz03]. **Generating** [Mor03]. **Generic** [FL00, Fra07, KL08]. **Gennes** [Pan03, Pan06]. **Genuinely** [Gev08]. **Genus** [Vui03]. **Geometric** [All08, AR03, BK02, Bos00, KS01, Len08, MH01]. **Geometrical** [CS07]. **Geometry** [BN02, BBP05, BD06b, TY05]. **Geophysical** [AG01b]. **Geostrophic** [AH08, SS03b, Wu05, Cha06]. **Gibbs** [CHK08]. **Gierer** [CK01b, DKP07]. **Ginzburg** [Spi03, BCM00, DF06, DO09, GWZ09, LL00, Pan06, SS03a]. **Glass** [Vis09]. **Global** [AH08, ABR00, Ali03, AS07, BCLM08,

BNP06, BC05, CdMGGK09, CO05, CHK05, CKS⁺01, CKS⁺02, CA00, DP09, ET09, GH09, GH05, HK00a, HK00b, HL06, Hur06, HKS05, HKS07, JP00, LZ05, LY09, LTT03, MZ05a, MH06, Mar06a, MV08, MR02, NS05, Per06, ST08, ST01, SZ00, WW07, WZF08, Wu05, YCL01, EGW06]. **Gluing** [MNR05]. **Goes** [IL05]. **Gordon** [OT07, Kat05, OT07]. **Gradient** [BNP06, CF06a, GL08, HK00a, MH06, Ort06, Zha03a]. **Gradients** [Lip01]. **Granular** [GJV03, Gor02]. **Graph** [Piv00]. **Gravitational** [LMR08]. **Gravity** [CN00, GW07, Wah06]. **Gravity-Capillary** [GW07]. **Green** [PS00, YZ09]. **Greene** [DdlL00]. **Gross** [Mar06a]. **Ground** [FG09, God09, LMR08, Rou06]. **Group** [KO00, ZD00]. **Grow** [KS09a]. **Grow-Up** [KS09a]. **Growth** [AC04, CF03, CE07, Cui08, DF06, FH07, Gia05, MW09, WC09].

Half [ANR09, BBW09, Kan04, Nak03, NN09, Nis02, WX05]. **Half-Line** [BBW09]. **Half-Plane** [WX05]. **Half-Space** [ANR09, Kan04]. **Hall** [Gra09]. **Hamilton** [BS00a, DS06, DS05, EGG03, Gom03, Pin00]. **Hamiltonian** [BPPW05, BB05, DL00, KW01, LL05]. **Hamiltonians** [Pis04]. **Hand** [BG08]. **Haptotaxis** [WW07, TW09]. **Hardening** [Ste08]. **Hardy** [VZ09, ZS02]. **Harmonic** [AMSW05, AHM09, Auc09, BFP08, Car03, CWM08, HLTT08, HSZ03a, HSZ03b, KKS00, MV05, Oga03]. **Harmonics** [ZD00]. **Hartree** [CO06]. **Hartree-Type** [CO06]. **Hats** [Tak00]. **Hausdorff** [CD08]. **Having** [CF06a, CLR02, Pla09b]. **Healing** [CF00]. **Heart** [PSF05]. **Heat** [BFP08, CK01a, ESG05, JNS06, JZ09a, KKS00, KN09, Kry01, Kry03, Lip01, Oga03]. **Heat-Conducting** [JNS06, JZ09a]. **Hele** [EM09, CR06, GP05, GP06]. **Helical** [ET09]. **Helicity** [Lay07]. **Helium** [God09]. **Helmholtz** [Fou06]. **Hemivariational** [MO09]. **Heterogeneous** [FLM01, KP08, Lip06]. **Heuristic** [DE09]. **High** [AK03, Bri03, Fou06, Mac04]. **High-Conductivity** [Bri03]. **High-Frequency** [Mac04]. **High-Order** [AK03]. **Higher** [AGSS00, DFLM09, HK00a, KN09, LY05, MJZ04, Mos05, NS04, VZ07, Wil09]. **Higher-Gradient** [HK00a]. **Highly** [ABDG04, FLM01, WX05]. **Hilbert** [Auc09, DL04, DMPD09]. **Hill** [GZ00]. **Hilliard** [EGW06]. **Hinged** [PS09a]. **Hölder** [Han08, HN05, KK02, KK05]. **Holes** [Fil07]. **Holm** [Bjo08, dMKST09]. **Homoclinic** [MPS05, MPS06, Rob00, SW09]. **Homogeneous** [Bra05, Mal00]. **Homogenization** [BD09, BGM08, BF01, Bri03, CDD06, CDG08, COV02, Dal07, DFM09, FS09, GP04, JT09, KMS07, Lip06, Lou06, MCP08, Mei08, MT07b, Nes07, Ped06, PR01, Sch08, Vis07]. **Homogenized** [BR03, BDK09]. **Hopf** [FL00, KA00, SS08]. **Hopping** [KL08]. **Hulst** [BL07, LLW03]. **Hunter** [BC05, Len08, Yin04]. **Hybrid** [BNR05]. **Hydrodynamic** [Xu09]. **Hydrodynamics** [CFdlL04]. **Hydrostatic** [AG01b, BKL04]. **Hyperbolic** [BR03, Bia01, CD01, CF03, CWY09, Cui08, DFM09, FL00, FC06, GR00, Gev08, GWZ09, HY03, HL00, HK00b, HL02a, HL02b, Joc02, Kim00, KA00, LRR06, Li08, MS04, Ren00, Tra06, vBPW08]. **Hyperbolic-Parabolic** [CD01, vBPW08]. **Hyperelastic** [CHK05]. **Hyperelastic-rod** [CHK05]. **Hypergeometric** [BPR00a]. **Hypoplastic** [Gor02]. **Hypothesis** [JWW07]. **Hysteresis** [AM05, EKK09, GJS09, KSS02]. **Hysteresis-Type** [GJS09].

Icosahedral [ZD00]. **Ideal** [CCM07, Lin03]. **Identification** [KY03b, KP05, LS00]. **Identity** [ZD00]. **II** [DH08b, FL00, HSZ03b, HL02b, MT03, VA03]. **III** [MST01].

Ill-Posedness [MST01]. **Image** [All08, CRTW05, DFLM09, GB04, SZ04]. **Images** [GM01]. **Immediate** [FMP05]. **Impact** [AS06, CLR02, Pla09b, QT05]. **Impedance** [Brü01, HHR09, HHR11, KKS02, Sin06]. **Imperfect** [DFM09]. **Implicit** [Li09, Li11]. **Inclusion** [AMR02, AD05]. **Inclusions** [Brü01, UW07]. **Incompressible** [FLP05, FM01, GV05, Kim06, LZ05, Loe06, PW08, Rou07, ST08]. **Increasing** [CR06]. **Increasingly** [LYY07]. **Incremental** [Mie04, NK08]. **Individual** [FKK09]. **Induced** [Ble08, LP07, MPP09, Pon07]. **Inequalities** [Ban03, BDK09, DGP04, Lip01, MT07b, Nik01, VZ09]. **Inequality** [BPR00a, DK08, MO09, Oga03, YYW08]. **Infinite** [FLT09, JN04, MH01, ST08, Sun01, Van01, Van85]. **Infinitely** [Kur04]. **Infinitesimal** [NK08]. **Infinity** [IL05, Mar08]. **Inflow** [QW09]. **Influence** [BFG04]. **Inhibitor** [WNW07]. **Inhomogeneities** [AK03, AIM03, BF06]. **Inhomogeneous** [CEGMM09, FMP09, GSR05, HH01, PRS08, dPKW07]. **Initial** [Bos05, FS05, GH08, LP02, NP00, PP00b]. **Initial-Boundary** [Bos05, PP00b]. **Initial-Value** [NP00]. **Initiation** [FFH02]. **Innovation** [Sun07]. **Instabilities** [LP07]. **Instability** [BD02, CCP07, DFG02, LP00, Lin03, OT07]. **Installment** [YYW08]. **Instantaneous** [HP09, STZ02]. **Integrable** [GMS09, KS02a]. **Integral** [AC04, Bab08, MM05]. **Integrals** [CDD06, DGG00, Lóp00, RW00b]. **Integrodifference** [HZ08]. **Intensity** [CDY04]. **Interacting** [CKK06, CCS07, FGQ04, Rou06]. **Interaction** [CS07, CO05, God09, Gra08, HT09, MC01, Miz03, SZ09]. **Interactions** [WZ05]. **Interface** [AK00, BL06, DO09, LXY00, NRJ07, O'D08]. **Interfaces** [DFM09, Osh04]. **Interfacial** [Sle08]. **Interior** [CK01b, dPKW07]. **Intermediate** [CGL05]. **Interpolants** [LYY07]. **Interpolation** [DY00, NW02, NW04, Yoo01, dVGH03]. **Interpolatory** [DLY07]. **Interval** [Van01, dVGH03, Van85]. **Invariance** [Kri04]. **Invariant** [BCV06, BSB03, CL00, Kag01, Kim05, BW08]. **Inverse** [BT07, BIY08, BBW09, CCCS06, HH01, HHR09, HHR11, IWY08, KK08a, KKS00, Li05, O'D08, Piv00, Ryb01]. **Inversion** [CN01]. **Inviscid** [FLP05, Kim09, Kim13]. **Involving** [BPR00a, BPR00b]. **Ion** [EL07]. **Ionized** [Rou07]. **Irregular** [BN02]. **Isentropic** [BV05, CL03, CGZ09, GJX08]. **Isolas** [BKL⁺09]. **Isolated** [KGB06]. **Isopolar** [Zwo01]. **Isosceles** [CL04]. **Isospectral** [Amo01]. **Isothermal** [Hat00, HW02, Xu09]. **isotropic** [Li05, HL02a]. **Issues** [MST01]. **Iterated** [Abd03].

J [HKS07, Pla09b]. **Jacobi** [BS00a, DS06, DN09, DS05, EGG03, Gom03, JN04, Pin00]. **Josephson** [CFTV03]. **Jouguet** [LZ03]. **Journal** [CJT09]. **Jump** [BX09, FLT09]. **Jump-Diffusions** [FLT09]. **Junction** [CHS08, CG08]. **Junctions** [CFTV03, FM09, MP08]. **Justification** [AG01b, DdIL00].

Kac [CGL08]. **KAM** [DdlL00]. **Kantorovich** [AHT03]. **Karman** [Kim05, BJ09]. **Kawahara** [BD02]. **KDV** [Tov08, KPT09, Mar06b, Miz03, Wri05]. **Keller** [KS09a, BDDS06, Sug09]. **Kernels** [AL06, Auc09]. **Khokhlov** [KP08]. **Killing** [BFG04]. **Kinetic** [BV05, BG08, CS06, Dal07, HL00, IV04, JT09, NS05]. **Kinetics** [FGHS07]. **Kirchhoff** [BGM08]. **Klein** [OT07]. **Knot** [KS03b]. **Ko** [CP07b]. **Kohn** [DGP04]. **Koiter** [BL01]. **Kolmogorov** [PP03]. **Kontorova** [QXM08]. **Korteweg** [CCP07, DDT04, Joh09, MC01, Miz01]. **KP**

[MST07]. **KP-Type** [MST07]. **Krahn** [DK08]. **Kuznetsov** [KP08, LP09]. **Kuznetsov-Type** [KP08].

Lack [BCD05]. **Ladders** [BKL⁺09]. **Lagerstrom** [HM09a]. **Lagrange** [Lil07]. **Lagrangian** [CF06b, HL06]. **Lakes** [DE09]. **Lamé** [BIY08, IWY08]. **Lamellar** [RW03, RW05]. **Landau** [GWZ09, BCM00, DF06, DO09, LL00, Pan06, SS03a, Spi03]. **Laplace** [ABDG04, IL05]. **Laplacian** [AMRT09, CQW03]. **Large** [BS00a, BL03, BK00, BDK09, DS06, DLS05, DS05, DE06, FG09, Hat03, Kim09, KS09b, Lew01, MZ05b, Miz01, Moo02, Nar08, Sun01, WW02, YZ09, Kim13]. **Large-Amplitude** [MZ05b, YZ09]. **Large-Eddy** [DE06]. **Large-Time** [DS05]. **Larmor** [FS01]. **Lasers** [BL03]. **Lateral** [Kry03]. **Lattice** [BCC03, FKW06, KGB06, SZ09, WLW09, Zho01]. **Lattices** [AB06, CFG06, HLTT08, KS05b]. **Law** [BN08, CR06, Dal07, HL02a, HL02b, MP03, Pan09, Spi03, Váz03]. **Lawrence** [BK05]. **Laws** [CWY09, CR05, CHS08, CS06, FL00, FLT09, GMS09, Ha01, HY03, IV04, Jen00, KL02, Laf04, Lew05a, LS03, LT01, Nak03, NT08, Roh05, Rou03, Sch05, SP07, TT00, TTX03, vBPW08]. **Lay** [GK08]. **Lay-Down** [GK08]. **Layer** [CCK07, Lim02, LCS03]. **Layered** [BK05, Ing00]. **Layers** [JZ09a, MB08, SR09, YZ09, dPKW07]. **Leads** [CMM06]. **Least** [LLYZ03]. **Lebowitz** [JM08]. **Left** [BBW09]. **Left-Definite** [BBW09]. **Lemma** [BL01, DL04]. **Length** [BPR00a, BPR00b]. **Leukemia** [FLM01, MOPMW06]. **Level** [KL08]. **Leverett** [vDPP07]. **Lewis** [BB05]. **Lewis-Type** [BB05]. **Li** [FG09]. **Lieberman** [MW09]. **Lifespan** [CM01]. **Lifshitz** [Lau02, NP00]. **Lifting** [Kei01]. **Light** [DGG08, KK08b]. **Like** [FGM05, Tor04]. **Limit** [ABR00, BW04, CL03, DO09, DE09, FGHS07, FLP05, Fil07, FG09, GM05, HW09, HLMP03, JNS06, Joc02, Kim09, Kim13, LZ05, LS01, Lou06, MP03, MT07a, MT08, Osh07, WX05, WXM06, Xu09, Zha03b, EGW06]. **Limited** [NW04, OW07]. **Limiting** [DH08b, Oga03]. **Limits** [AC04, FGQ04, HK00a, IL05, KL02]. **Line** [BBW09]. **Linear** [BFV08, BL01, BC06b, BD02, BST05, BFK03, BDDS06, DPR09, Don00, FC06, JLP06, JLM01, KMS07, Kim00, Li08, LP02, Mal00, Mar06b, MW09, MC01, PP00b, QT05, Ren00, San05, STZ02, Yoc07, vBPW08, BS01, BK04, BBF06, DH08a, DH08b, FS03, FS05, Ria04, Rob04]. **Linearized** [CGNT08, GIK05, Hor08, LMR08, SS09b, WX05]. **Lines** [FL00]. **Liouville** [BBW09, Esp05, Piv00]. **Lipschitz** [BFV08, CZZ07, FMS03, HN05, Ron05]. **Liquid** [CGLL02, CP07a, LP07, Pan06, Tri08]. **Liquid-Vapor** [Tri08]. **Littlewood** [ZS02]. **Local** [AK00, CM02, CN01, CDJ08, Cré03, GH08, GK00, Han01, KY03a, KS07, LL05, Roh05, TY05, Tzo06]. **Localization** [AP06, GG00]. **Localized** [BKL⁺09, DPR09, JLP06, NPW06]. **Locally** [AP06, NW02]. **Logarithm** [Abd03]. **Logarithmic** [Oga03]. **Logistic** [TW09]. **Long** [BS01, BD06a, CQW03, CO05, CT08, Joc00, Kag01, MS06, YZ09, dMKST09, vBPW08]. **Long-Range** [CO05]. **Long-Time** [BS01, CT08, Kag01, MS06, YZ09, vBPW08, dMKST09]. **Look** [MR08]. **Loops** [MPS05, MPS06]. **Lorenz** [MPS05, MPS06, Rob00]. **Losing** [CCM07]. **Loss** [LWS05]. **Lotka** [LRRBS09, MT09]. **Love** [BGM08]. **Low** [Ala06, AN00, GH08, HW09, Mus05, BCP06]. **Low-Frequency** [AN00]. **Lower** [Bab08, Xu04]. **Lubricated** [CJT09]. **Lubrication** [Wil09]. **Lyapunov** [CH06, Lew05a].

Mach [Ala06, CKK06, HW09]. **Macro** [HZ09]. **Macroelements** [LS02]. **Macroscopic** [MCP08, WCD07]. **Magma** [SW08]. **Magnetic** [DD02b, GSR05, KKS02, LP07]. **Magnetics** [KK08a]. **Magnetohydrodynamic** [EKK09, HW09]. **Magnetohydrodynamics** [GV05]. **Magnetostrictive** [RL05]. **Managed** [Kur04]. **Management** [CCCS06, MJZ04]. **Manakov** [DE00]. **Manifolds** [BW08, Bel03, CG00, FHW02, Kag01, Kri04, KS00]. **Many** [Kur04]. **Map** [AHM09, BFP08, CY04, QT05]. **Mapping** [SZ04]. **Mappings** [CG00]. **Maps** [CDJ08, DdlL00, FHW02, Fig07, Ing00, Kri04]. **Martensitic** [CM06, Hor08]. **Masks** [Han08]. **Mass** [KLVZ09, MST07, Tzi06]. **Mass-Critical** [KLVZ09]. **Material** [BMR09, Gor02, KS06a]. **Materials** [BD09, CP07b, GJV03, RL05, Yoc07]. **Math** [HKS07, Pla09b]. **Mathematical** [AG01b, BMR09, CCG05, CC07, FLM01, FFH02, FLT09, IM01, PS09b]. **Mather** [Gom03]. **Matrices** [JN04, LK01]. **Matsumura** [HIN04]. **Maxwell** [DW05, GWZ09, KK02, KK05, Li05, MH01, PW08]. **Mean** [BCQ01, CN06, DP05, FPR04, GP04, II01, Ish05, Lee09, Nar08]. **Mean-Field** [DP05]. **Measurable** [KK07, Lor00]. **Measure** [LHK07, Rie03, Rig06, Zha03b]. **Measurements** [AG01a, AMR02, AD05, BFV08, CK01a, Sin06]. **Measures** [BF01, CP07a, CHK08, Kim05, Mac04, Ped04, Ped06, Zha03a]. **Mechanical** [BSB03]. **Mechanism** [LP00]. **Media** [AS07, BDV03, CL09, FS03, FS05, GG00, HL02a, HL02b, KP08, Li05, Lip06, MP01, Mei08, NN01, Sch05, Tor04]. **Median** [DY00]. **Median-Interpolation** [DY00]. **Mediated** [HKM08]. **Medium** [AP06, BV00b, HH01, KS05a]. **Meinhardt** [CK01b, DKP07]. **Meissner** [BCM00]. **Membrane** [ABV06]. **Membranes** [CMM06]. **Memory** [DFG02, MPP09, Ste05, Yoc07]. **MEMS** [GG07]. **Merriman** [Ish05]. **Metaphor** [DE09]. **Metastability** [KT01]. **Method** [Bel03, BF01, CDD06, CDG08, CDY04, FMS03, GK05, HSZ03b, Pro02]. **Methods** [BCR01, BST05, CWM05, CP00, GW07, MS06, SR09]. **Metric** [Kov08]. **Metrics** [KY03a]. **MHD** [CCM07, PW08]. **Micro** [HZ09]. **Micro-Macro** [HZ09]. **Microlocal** [Sze05]. **Micromagnetism** [Joc05]. **Mild** [Bos05]. **Minimal** [BD06a, CLR02, KLVZ09, Pla09b, Tor04]. **Minimal-Mass** [KLVZ09]. **Minimax** [GH03]. **Minimization** [BST05, CR03, Li09, Li11]. **Minimizers** [BCM00, CO05, CF06a, DGG00, Mie04, RL05, Tzo06]. **Minimizing** [AHT03]. **Minimum** [CQ07, Zag05]. **Miscible** [AS07]. **Mixed** [Ebm00, HR08, Roh05]. **Mixtures** [CNO06, FGM05, Rou07]. **Mode** [LP00]. **Model** [AM05, ABR00, Ali03, AC08, BR03, BL06, BR06, BL01, Bou00, BFK03, BDDS06, BS05, CGL08, CdMGK09, CF00, CJ04, Cr603, CS06, DFLM09, DD02a, DKP07, DE06, FKK09, FLM01, FFH02, FM09, GM05, GL08, God09, Gor02, GR03, HM09a, HZ09, IM01, JZ09b, Joc00, KS09a, KGB06, LZ05, LZ03, Lie05, LT01, MCP08, MP08, MPP09, MB08, MC01, NS05, Nis02, ORS06, OW07, Pan06, PV05, QXM08, SS03a, Sch05, SZ09, Ste05, Tov08, WW07, WNW07, Xu09, ZZ08, aLW09, dPKW07]. **Modeling** [BBF06, CFTV03, Cui08, FH07, PSF05, WC09]. **Modelling** [CCG05, CQ07, CE07, DH08a, DH08b, YCL01]. **Models** [BNR05, CGL05, DP05, DZ03, FM00, GH05, HR06, HKP07, KSS02, LRRBS09, Lay07, Wal09a, WXM06, Wan08, FKW06]. **Modes** [DPR09, HLT08, Kur04, SZ05]. **Modified** [KPT09, LP09]. **Modulational** [Pro02]. **Moduli** [BMR09]. **Molecular** [Li09, Li11]. **Moment** [KN09]. **Moments** [KKS00]. **Momentum** [CGL08]. **Monge**

[AHT03, JW07]. **Monostable**
 [CFG06, CDM08, WLW09]. **Monotone**
 [KS03b]. **Monotonicity** [BPR00b].
Morphogen [aLW09]. **Morphological**
 [NS04]. **Morphology** [RW08]. **Moser**
 [CN01]. **Motility** [Wan00]. **Motion**
 [BCQ01, DMPD09, FM04, II01, Ish05, PP04,
 Spi03]. **Motions** [QT05]. **Movement**
 [HKS05, HKS07]. **Moving** [Ha01, HY03].
Mullins [Rög05]. **Multiclass** [BR03].
Multidimensional [BV05, CJ04, Cla00,
 Cou02, GH09, GL07, Hof06, IV04, NN09].
Multifractal [Fra07]. **Multilevel** [Kyr04].
Multiphase [AC08]. **Multiple**
 [DRY07, HKM08, Moo02, ST01].
Multiplicity [Du00, RW00a].
Multiresolution [KS09c]. **Multiscale**
 [ABV06, BNG04, CDD03, PSF05, ZZ08].
Multivariate [BG04]. **Multiwavelet**
 [Kei01]. **Mumford** [CMS04]. **Mutilated**
 [Can01]. **Mutually** [FGQ04]. **Myelogenous**
 [MOPMW06].

N [FG09]. **Nash** [CN01]. **Natural**
 [GM01, MW09]. **Navier**
 [Kim13, AGSS00, ANR09, Bra05, BKL04,
 CCS07, DG09, FN05, FLP05, FM01, HZ03,
 Hof06, Ift02, JNS06, JZ09a, Kel06, Kim06,
 Kim09, KK04b, LW09, LXY00, MV08,
 MR04, Mik09, NYZ04, Per06, PRS08, QW09,
 SZ07, WX05, WZF08]. **Near** [HZ09, KS02a,
 LM09, Tak00, Tzo06, HLMP03, SS09b].
Near-Periodic [Tzo06]. **Negative**
 [GW09, STZ02]. **Neighborhoods** [Zha03a].
Nematic [CGLL02]. **Nernst** [EL07].
Network [BN02, BBP05, CGP05].
Networks [DMP06, HW03, LAJ08].
Neumann [LZ03, BBF06, BV02, CY04,
 HN05, Ing00, KY03a, KN00, MV05].
Neuronal [CMS04]. **Neurons** [HW03].
Neutral
 [CLGZ06, MVNO08, NOV09, WXM06].
Newtonian [BP07, CCG05, MT08, Rou07].
Nirenberg [DGP04]. **Nishiura** [FH01].
NLS [CGNT08, KLVZ09]. **No** [Pot07].
Noise [DDT04, DS05, JWW07, LR09]. **Non**
 [BP07, CCG05, Rou07]. **Non-Newtonian**
 [BP07, CCG05, Rou07]. **Nonautonomous**
 [HS02, LRRBS09, LWS05, NOV09].
Noncharacteristic [YZ09]. **Nonclassical**
 [HL00]. **Nonconservative** [El 07].
Nonconvex
 [BL06, BNP06, CM02, CP07b, IM01, LZ03,
 Ort06, Pis04, Rie03, TTX03, Zag05].
Nondecaying [Coz09]. **Nonelliptic** [Lil07].
Nonexistence [AS00, JS02, Mar08].
Nonhomogeneous [AMRT09, BB08,
 GJT06, JJS00, Kim06, Rob04].
Nonhyperbolic [KS01]. **Noninteracting**
 [Lew01]. **Noninvariance** [Kri04].
Nonlinear
 [AMSW05, AR03, BDR09, BW08, BGHR03,
 BD06a, Bla06, Bou08, BY04, BDDS06,
 CCD02, CCG05, CKK06, Car03, Cas03,
 CW00, CD01, CCS07, CGL05, CCP07,
 CA00, DRY07, DP03, DG00, DKP07, DY00,
 DE09, Dum03, DZ08, Ebm00, ESG05, FS09,
 GIK08, Gev08, GH08, GJT06, GW09, HK06,
 HK00b, HW03, HKS05, HKS07, IK01, Joc00,
 Joh09, JP00, JM09, KK08a, KPS09,
 KKS02, KKS08, KA00, KP08, Kur04,
 LW08, LT01, Loe06, MH06, Mar08, MJZ04,
 MG05, Moo02, Nak01, NK08, NYZ04, OT07,
 PP00a, PP03, Sac04, SS09a, Sch00, ST01,
 Sze05, Tzi06, VZ07, Vis07, ZY00, Mus05].
Nonlinearities [HNS08]. **Nonlinearity**
 [AGGM05, CDM08, DDGM07, LY05, LW08,
 WLW09]. **Nonlocal** [AMRT09, ABV06,
 Bos00, CEGMM09, CDM08, DPR09, DH08a,
 DH08b, GR03, JZ09b, Kur04, RW00a,
 RW08, Roh05, Sle08, Tzo06, BC06a].
Nonmonotone [HZ08]. **Nonnegative**
 [GW06, JP00]. **Nonresonance** [Xu04].
Nonresonant [Ha01]. **Nonsectorial**
 [GK08]. **Nonsmooth**
 [BLM09, Ebm00, HR08]. **Nonstationary**
 [DLY07, FM01]. **Nonsymmetric**
 [LK01, Rob00, San05]. **Nontwist** [DdlL00].

Nonuniform [Sun07]. **Nonuniformly** [Cou02]. **Nonuniqueness** [JM08].
Nonviscous [DS05]. **Nonzero** [Mar08].
Normal [Alm08, BW08, KS02b, Xu04].
Normality [CGL04]. **Norms** [IK01]. **Note** [Ren00]. **Nozzle** [CGZ09]. **Nozzles** [LY09].
Nuclear [FG09, The04]. **Null** [HK00b].
Number [Ala06, CWM08, HW09, Lie05].
Numbers [MDvD06].

O [FG09]. **Observability** [VZ09, Zha08].
Obstacle [Fil07, HKK01, NS07, Sin06].
Obstacles [MS06]. **Occurring** [Lip01].
ODEs [Ria04]. **Off** [CNO06]. **Off-Critical** [CNO06]. **Ohnishi** [FH01]. **Oil** [BDV03, Sch08]. **Ok** [HIN04]. **Oldroyd** [LZ05, MT08]. **One** [ABV06, Bri03, CGZ09, CS06, DFLM09, DG09, FM04, HIN04, HK00a, JNS06, KK07, KSS02, LP02, Lim02, Mar06a, MV08, Nak03, NS09, PLN02, Ryb01, Sac04, SZ09, Tzi06].
One-Dimensional [ABV06, CGZ09, CS06, DFLM09, DG09, HK00a, JNS06, KSS02, Lim02, MV08, Nak03, NS09, PLN02, Sac04, SZ09].
One-Directional [Bri03]. **Ono** [MST01].
Onset [Gui07]. **Oort** [BL07, LLW03].
Operator [DPR09, EL02, JN04, JLP06, KY03a, KM01, MW09, Pro01]. **Operators** [Amo01, BO07, CGNT08, EL02, HN05, Kov08, KP05, Mac04, O'D08, PR01, Rob04, San05, Ste04]. **Optics** [AR03, BL03, CGL05, Dum03, Joc00, LP00].
Optimal [BX09, BCP06, BD06b, BS05, CDJ08, CC07, CP00, Fig07, Ish05, Lip01, Lor00, MP03, Ped00, Ron05, SP07].
Optimally [GL07]. **Optimization** [The04].
Optimize [HKK01]. **Options** [BX09, CC07, YYW08]. **Orbital** [LW08].
Orbits [CL04]. **Order** [AFM01, AK03, Amo01, AGGM05, CP07a, DFLM09, FM00, GB04, GP06, GW09, HS08, HR06, JP00, JM09, KMS07, Kei01, KN09, KS07, Li06, LY05, MJZ04, Mos05, SW09, Wil09, vdBHV01, GJT06]. **Order-Disorder** [CP07a]. **Ordering** [NOV09]. **Orders** [Yoo01]. **Orientation** [CGLL02].
Orthogonal [QW00, Van01, Van85].
Orthonormal [Don00, PS00, ZD00].
Oscillating [ABDG04, GV05]. **Oscillations** [CL00, CMS04, MOPMW06, Moo02].
Oscillator [BLM09, Joc00]. **Oscillators** [QT05]. **Oscillatory** [WX05]. **Oseen** [Deu09, LS01]. **Osher** [Ish05]. **Ostrovsky** [CMJ09, LL06]. **Ostwald** [NP00].
Overcrowding [BDDS06]. **Oversampling** [Joh03].

Packed [BN02]. **Packet** [DMP06]. **Packets** [Che00]. **Packings** [BLRW06]. **Pair** [GH05].
Pairs [LYY05]. **Pan** [AH07]. **Parabolic** [BS01, BK04, BBF06, BK00, BFK03, CCG05, CD01, CJ04, CA00, Dal07, DGP04, FS03, FS05, GJV03, GWZ09, GJT06, GK05, HR08, JP00, JM09, KK08a, KK04a, KA00, LRR06, Lor00, MG05, PP00b, Tak00, vBPW08, vdBHV01]. **Parabolic-Elliptic** [MG05]. **Parabolic-Hyperbolic** [GWZ09, KA00]. **Parallel** [Zha03a].
Parameter [Pan03, Pan06]. **Parameters** [BK02, FL00, Li06]. **Parametric** [Coo00].
Parametrically [KW01]. **Parametrization** [RTW01]. **Part** [MB08]. **Partial** [AMP05, CRTW05, DdlL00, DGG00, GG07, HKP07, KKS02, KW01, LR09, WCD07].
Particle [CP00, FGQ04, NS09, Rou06].
Particles [CCD02]. **Partitions** [HNZ06, Rig06]. **Passage** [CCCS06]. **Past** [GH09]. **Path** [Red02]. **Path-Tracking** [Red02]. **Patlak** [KS09a]. **Pattern** [CWY09, DS09, HW03]. **Patterns** [BKL⁺09, Lew01, Osh04, Pro02, QW09].
PDE [CFTV03, DE09]. **PDEs** [Bla06, DZ08, FS09, GB04, KMS07, BB05, IK01].
Pecllet [MDvD06]. **Penalization** [SR09].
Euler [NT08]. **Gross** [KKS08]. **Singular** [PV05]. **Pencil** [JLP06]. **Pendulum** [LLYZ03]. **Perfect** [ST08]. **Perforated**

[WCD07]. **Period** [BD06a]. **Periodic** [AP06, BS01, BPBW05, BD06a, Bri03, BST05, BLM09, CDD06, CDG08, Coo00, CL04, DDT04, DL00, DPR09, EM09, FG09, GH08, HS02, JT09, JZ09b, Joh09, KMS07, KM01, LLYZ03, LY05, Lou06, MOPMW06, Moo02, PN08, Pin00, QT05, Sun01, Tor04, Tov08, Tzo06, Wah06, Wal09b, Yin04]. **Periodic/Nonautonomous** [HS02]. **Periodicity** [CO05, GJS09]. **Permanence** [GH03, LRRBS09, Sch02]. **Permanent** [Bos03, EL07, JS02]. **Perpendicular** [Pan03]. **Persistence** [GZ09, HS02, Nob09, Xu04]. **Persistent** [MZ05a]. **Perturbation** [DPR09, FM00, Gom03, KS01, LHK07, MW09, MH01]. **Perturbations** [Sch00]. **Perturbed** [Bos00, DRY07, GH09, Mor03, Sti00, Tov08, Tzo06]. **Phase** [DP05, FM00, FS03, FS05, GM05, Gui07, HIN04, Hat00, Hat03, HK00a, KSS02, LS00, Lip01, MPP09, Mos05, PV05, Sch08, SZ09, Tri08, Vis09, Wan08, dPKW07]. **Phase-Field** [GM05, KSS02]. **Phase-Transition** [PV05]. **Phenomena** [DH08a, DH08b]. **Phenomenon** [BLRW06, DS09, Tzi06]. **Physical** [CGL08, CF06b]. **Physics** [BK00, Bla06, LS00]. **Phytoplankton** [DH08a, DH08b]. **Piecewise** [DP03, SZ09]. **Piercing** [PP00a]. **Piezoelectric** [MN05]. **Pitaevskii** [Mar06a, KKSW08]. **Placement** [HKK01]. **Planar** [AK06, AKS06, BCV06, HM09b, JS02, LYY05, MV05, NN09]. **Planck** [EL07, Kag01]. **Plane** [Bjo08, Coz09, EK08, Gor02, GSZ04, KTVW05, Kel06, Lin03, MNR05, MR08, Ron05, Tor04, VA03, WX05]. **Plane-Like** [Tor04]. **Planning** [BS05]. **Plasma** [BK00, LS00]. **Plasmid** [WNW07]. **Plasmid-Bearing** [WNW07]. **Plasmid-Free** [WNW07]. **Plasticity** [GL08, Mie04, NK08]. **Plate** [BGM08, Gra08, Kim05]. **Plates** [BJ09, PS09a]. **PML** [HSZ03b]. **Pockets** [GZ00]. **Poincaré** [BSB03]. **Point** [FM04, Fou06, HM09b, LM09, Pro01]. **Points** [KS01, Sti00, FKW06]. **Pointwise** [AGSS00, TT00, YZ09]. **Poisson** [Kag01, Li11, AMP05, AL06, ABR00, Ali03, BNR05, Bos03, Bos05, CH06, EL07, Hwa04, LMR08, Li09, MV07, MT07a, NT08, Zha03b]. **Pol** [BLM09]. **Polarizational** [LP00]. **Pole** [HSZ03a, HSZ03b]. **Poles** [KN00]. **Polycrystals** [BBN08]. **Polydisperse** [BBF06]. **Polygon** [KK04b]. **Polyharmonic** [BCR01]. **Polyhedral** [Han01]. **Polymer** [NS04]. **Polymeric** [HZ09, Sch09, ZZ08]. **Polynomial** [BX05, LYY07]. **Polynomials** [AL06, BG04, DP03, Dun01, PS00, QW00, Van01, Van85]. **Polytropic** [LMR08]. **Population** [CJ04, KK08a, KGB06, OW07, Wal09a]. **Populations** [MOPMW06]. **Pore** [MDvD06]. **Porous** [AS07, BDV03, FS03, FS05, GG00, MP01, Mei08, NN01, Sch05]. **Posed** [MS04]. **Posedness** [AH08, Amb03, ACFS09, CMZ08, CKS⁺01, CKS⁺02, El 07, GH08, HL06, LP09, LCS03, MST01, PRS08, aLW09]. **Positive** [BY04, LM08, Wal09a]. **Positivity** [PS09a, PN08]. **Posteriori** [Laf04]. **Potato** [CF01]. **Potential** [AMSW05, Car03, Coo00, HM09b, LY09, Sac04, SZ09, YZ05]. **Potentials** [AK03, GZ00, VZ09, Zwo01]. **Power** [BN08, CR06]. **Power-Law** [BN08, CR06]. **pp** [HKS07, Pla09b]. **Practical** [Wil09]. **Predator** [AM05, DD02a]. **Predator-Prey** [DD02a]. **Prescale** [DGH00]. **Prescribed** [Rig06]. **Presence** [Alm08, AK03, BF06]. **Preserving** [PS09a]. **Pressure** [BMR09, BFK03, CL03, Sch05]. **Pressureless** [Bou00, GSR05, NT08]. **Prevention** [BDDS06]. **Prey** [AM05, DD02a]. **Prey-Predator** [AM05]. **Price** [CdMGGK09]. **Pricing** [YYW08]. **Primitive** [AG01b]. **Principal** [CG00]. **Principle** [BCP06, CN01, Rei01, Ste08].

Principles [BN08, EL02, KY04, KS06b].
Probing [UW07]. **Problem**
 [Abd03, AFM01, AHT03, AGGM05, Bel03, BV08, BIY08, BCN05, BBW09, BFG04, BCV06, BV00a, BW04, Bos05, BFK03, CR06, Cas03, CF00, CD01, CF03, CCCS06, CG08, CL04, CA00, CE07, Cui08, DG09, DH08a, DH08b, FH01, FP02, FH07, Gor02, GP06, HH01, HHR09, HHR11, HM09a, Hat00, Hat03, HMS03, HMS04, HL02a, HL02b, IWY08, KK08a, KKS00, KN00, KN09, LP08, LYY05, Li05, LP02, MV07, MW09, MS04, Mik02, MM05, MR02, Mos05, NP00, Osh07, PP00a, PP04, PP03, PP00b, Piv00, PS08b, QW09, RW03, RW05, RW08, Ren06, Ryb01, Vis07, WC09, Xu03, Zag05, ZY00].
Problems [AS06, BT07, BBF06, BJ09, Bri03, BV02, BST05, CKK06, CM02, CP07b, CR03, CEGMM09, DK08, Du00, DZ08, Ebm00, FS05, GG00, Gui07, GJS09, HT09, HSZ03a, HSZ03b, IK01, IL05, JT09, LK01, Lor00, Mar06b, Mor03, MR08, NS04, PS09b, Pin00, PRS08, RW00a, SR09, Tra06].
Procedure [Ort06]. **Procesi** [WY08].
Process [DFG02, GK08, IM01]. **Processes** [NRJ07]. **Processing** [GB04]. **Profile** [DH08b, WXM06]. **Profiles** [FM01, MP01, MZ05b]. **Projections** [BX05]. **Propagation** [Grü03, KL08, LLLY04, Mei08]. **Properties** [AG02, DN09, DGH00, GZ09, Li06, PN08, Var08]. **Property** [BPR00b, PS09a].
Pseudodifferential [Sch00].
Pseudoparticle [CP00]. **Pulse** [CMJ09, DKP07, MJZ04, RL06]. **Pulses** [AR03, BL03, CL09]. **Purely** [LR09]. **Put** [CC07]. **Pyramid** [DY00]. **Pyramidal** [Tan07].
Quadratic [SZ09]. **Quadrilateral** [LS02].
Qualitative [Wan00]. **Quantization** [JWW07]. **Quantum** [JP00, JM09]. **Quasi** [AH08, Bab08, BS01, BW08, BK04, BBF06, BST05, BFK03, Cha06, CGZ09, CDY04, DH08a, DH08b, DGG00, FS03, FS05, Gia05, GL08, Joc02, JLM01, Li08, LY05, LP02, MW09, MO09, PP00b, Pro02, Ren00, Ria04, Rob04, SS03b, WXM06, Wu05, Yoc07, vBPW08]. **Quasi-Convex** [DGG00, Bab08]. **Quasi-Dual** [CDY04]. **Quasi-Geostrophic** [AH08, SS03b, Wu05, Cha06]. **Quasi-invariant** [BW08]. **Quasi-Linear** [BST05, BFK03, JLM01, Li08, LP02, MW09, PP00b, Ren00, Yoc07, vBPW08, BS01, BK04, BBF06, DH08a, DH08b, FS03, FS05, Ria04, Rob04]. **Quasi-neutral** [WXM06]. **Quasi-Periodic** [LY05]. **Quasi-Static** [Gia05, MO09, GL08]. **Quasi-Stationary** [Joc02]. **Quasi-Steady** [Pro02]. **Quasiconvex** [CDD06]. **Quasiconvexity** [Ped00]. **Quasilinear** [HR08, MS06, PS06]. **Quasiminimal** [Rig06]. **Quintic** [Tzi06].
Racah [AL06]. **Radial** [BCR01, BGL07, DRY07, GG00, LYY07, NW04, Yoo01]. **Radially** [Nar08]. **Radiation** [KS00]. **Radiosity** [Han01]. **Radius** [AHM09, FS01]. **Radon** [AK06, BX05]. **Raising** [Kei01]. **Raman** [WZ05]. **Random** [BG04, BBN08, BLRW06, Dal09, DO09]. **Range** [AK06, BGL07, CO05, Nak01]. **Rapid** [CL00]. **Rapidly** [CT08, Dal09]. **Rarefaction** [JNS06, KMX08, Lew05a, Lew05b, Nak03, NYZ04]. **Rarefactions** [Bia01]. **Ratchets** [BDK09]. **Rate** [Bou00, BMR09, God09, GK08, Hat00, Ish05, KS09a, MP03, Mas01, NN09, Sun07, TTX03]. **Rates** [CNO06, DP05, JM08, Lay07, ORS06]. **Reachable** [BV08]. **Reaction** [AK00, Bos00, CCK07, CQ07, FGHS07, FC06, JZ09b, KS00, NRJ07, Osh04, SZ00, WW02, WZ05, YCL01]. **Reaction-Diffusion** [AK00, Bos00, CCK07, FGHS07, JZ09b, NRJ07, Osh04, SZ00, WW02, YCL01]. **Reaction-Hyperbolic** [FC06]. **Reactive** [MDvD06]. **Reactor** [The04]. **Real** [Auc09].

Realization [Bra05]. **Receptor** [MCP08].
Receptor-Based [MCP08].
Reconstruction
 [BX05, Mac04, Pal09, Ron05, Sun07].
Recovery [AIM03]. **Rectangular** [FMP09].
Reduction [Bab08, BGM08, Rei01].
Refinable [Han08, Pro00]. **Refined**
 [CKS⁺02, KS09a]. **Refinement** [JJS00].
Regimes [Bos03]. **Regular**
 [CM01, Kov08, Kry03]. **Regularity**
 [Abd03, BV00b, CM02, Cha06, CRTW05,
 DGG00, Fig07, GH08, Hwa04, Kan04,
 KK04b, Le05, LW09, MN05, NK08, Oga03,
 SZ07, SS09b, Sug09, Mus05].
Regularization
 [All08, Cré03, FMP05, HK00a, LS03].
Regularizations [RW00b]. **Regularized**
 [CMJ09, DKP07]. **Reinforced**
 [BD09, Gra09]. **Related**
 [ABV06, CP07b, CM01, CR03, DGP04,
 Dun01, Hat03, IL05, KK02, KK05, Kur04,
 LP08, LYY05, Mar06b, MST01, Mos05].
Relation [LLW03]. **Relations**
 [Gra09, HL00]. **Relaxation** [ABR00,
 CMM06, Li08, MZ05b, MM05, TT00, Xu09].
Relaxation-Time [Xu09]. **Remark**
 [Zwo01]. **Remarks** [HK06, MST07].
Renormalization [BC06b, Pro02].
Renormalized [BK04, CL05, MG05].
Representation
 [AC04, Bab08, BCQ01, Can01, GL07, ZD00].
Reproducing [Auc09]. **Repulsive**
 [Car03, HM09b]. **Residual** [IWY08, NW03].
Resistance [CLR02, PP00a, Pla09b].
Resolution [MN00]. **Resolvent** [KN00].
Resonance
 [Coo00, GZ00, KKS02, dPKW07].
Resonant [Bou08, HY03, MPS05, MPS06].
Respect [BF01, KK07, Kri04, Lor00, Sch00].
Response [Pot07]. **Restoration**
 [CRTW05, DFLM09]. **Result**
 [AC04, BV00b, CKS⁺02, GH05, Grü03,
 Hor08, Ift02, Mas01]. **Results**
 [ACFS09, BCLM08, DGP04, EM09, MN05,
 PS09b, Wes02]. **Retarded** [LWS05].
Reverse [Dun01]. **Reversible**
 [BPBW05, Xu04]. **Reynolds** [Wil09].
Ridgelets [Can01, Don00]. **Riemann**
 [HL02a, HL02b, Pin00]. **Riemannian**
 [CMS04, KY03a]. **Right** [BG08, II01].
Right-Angle [II01]. **Right-Hand** [BG08].
Rigorous
 [CMM06, MDvD06, ORS06, PW08]. **Rings**
 [Kat05]. **Ripening** [NP00]. **Rise** [BBN08].
Risk [CCCS06]. **Rivers** [DE09]. **Road**
 [CGP05]. **Robin** [DK08]. **Robust** [GH03].
Rod [GZ09, HM09b, LL05, Vui03, CHK05].
Rodlike [ZZ08]. **Role** [TW09]. **Roll**
 [Nob09]. **Rotating**
 [AB06, CT08, Dal09, Lou06]. **Rough**
 [Are01, CWM05, MV07, Pla09a]. **Rupture**
 [CD08].
S [Du00]. **S-Shaped** [Du00]. **Safronov**
 [BL07, LLW03]. **Saint** [Nob09]. **Samples**
 [JS02]. **Sampling** [BG04, Mac04, Sun07].
Satisfying [BPBW05, MW09, MV05].
Saturated [Gor02]. **Saxton**
 [BC05, Len08, Yin04]. **SBV** [Bab08]. **Scalar**
 [CM02, IV04, KL02, LZ03, LTT03, MP03,
 NT08, Pan09, Roh05, Zag05]. **Scale**
 [BF01, BCD05, MT07b, Zui00]. **Scaling**
 [CM06, CGL04, FGQ04, GR00, MP05].
Scattered [NW02, NW04].
Scattered-Data [NW04]. **Scattering**
 [AN00, AIM03, AKS06, Are01, BV08,
 BBW09, CW00, CWM05, CWM08, HSZ03a,
 HSZ03b, KS05a, LW05, NS07, O'D08,
 Pla09a, Ryb01]. **Schaeffer** [Nik01].
Schauder [Lor00]. **Scheme** [II01].
Schemes [DLY07, KS09c, Zho01]. **Scholes**
 [Cré03]. **Schrödinger**
 [AMP05, AMSW05, AP06, Ban03, BNR05,
 BO07, Car03, CW00, CKS⁺01, CKS⁺02,
 CT09, DW05, DPR09, GH08, HNS08, HK06,
 KM01, KPS09, KKS08, Kov08, Kur04,
 LM08, LY05, LP02, LW08, Mar08, Mar06a,
 MJZ04, Nak01, O'D08, Rou06, Sac04, SS09a,

Spi03, Sze05, Tzi06, VZ09, VZ07, Zha03b]. **Schrödinger-Type** [O'D08]. **Schrödinger/Gross** [KKS08]. **Screw** [Pon07]. **Second** [AFM01, FM00, HR06, KMS07, MH06, Rob04, SS03a]. **Second-Gradient** [MH06]. **Second-Order** [HR06]. **Section** [BV00b]. **Sector** [GGH05]. **Seeding** [BR06]. **Segel** [BDDS06, KS09a, Sug09]. **Segregation** [Ble08]. **Seismic** [Mei08]. **Sekerka** [Rög05]. **Selection** [LHK07, Ort06]. **Selective** [CRTW05]. **Self** [BL07, CW00, Dum03, EL02, GGH05, HM09b, LS03, SZ05, Zho01]. **Self-Adjoint** [EL02]. **Self-Focusing** [Dum03, SZ05]. **Self-Potential** [HM09b]. **Self-Similar** [BL07, CW00, LS03, Zho01, GGH05]. **Sel'dual** [MNR05]. **Sel'kov** [Lie05]. **Semiclassical** [LW08, Zha03b]. **Semiconductor** [MT07a]. **Semiconductors** [ABR00, WXM06, Xu09]. **Semicontinuity** [Bab08]. **Semidiscrete** [BGHR03]. **Semiflow** [Kri04]. **Semigeostrophic** [CF06b, Loe06]. **Semigroup** [KL08]. **Semilinear** [AGGM05, CFTV03, Du00, DMPD09, FHW02, MR02]. **Semirelativistic** [CO06]. **Semistrong** [DKP07]. **Semisubmerged** [PP04]. **Sensitivity** [PRS08]. **Separate** [Zha03a]. **Separated** [NRJ07]. **Separation** [HIN04]. **Sequences** [Mor03, dVGH03]. **Sequential** [FN05, Pel01]. **Set** [CD08, FN05, Pan09, Vui03]. **Sets** [AG02, BV08, CR06, Gom03, IM04, Pla09a]. **Setting** [Mac04]. **Shabat** [KS03a]. **Shah** [CMS04]. **Shallow** [CMZ08, CT08]. **Shallow-Water** [CT08]. **Shape** [CM98, CM00, MPP09, Ste05, Yoc07]. **Shape-Memory** [MPP09]. **Shaped** [Du00, MS06]. **Shapes** [Tan07]. **Sharp** [BL06, BY04, CQ07, DO09, MM05, Oga03]. **Sharp-Interface** [DO09]. **Shaw** [CR06, EM09, GP05, GP06]. **Shaw-Type** [GP05]. **Shear** [BMR09, FMS03, FS00, Gor02]. **Shear-Dependent** [FMS03]. **Shear-Rate** [BMR09]. **Shearlet** [KS09c]. **Shearlets** [GL07]. **Sheets** [Amb03, CZZ07]. **Shelf** [JLP06]. **Shell** [ABV06, BL01, CCS07]. **Shell-Membrane** [ABV06]. **Shock** [BGSZ01, BGHR03, CWY09, GH09, HMS04, LLLY04, Lew01, LK01, MZ05b, SS08, Tra06]. **Shocks** [BV05, Bia01, CKK06, CL03, Cou02, CS06, HL00, LY09, Rou03, SP07, Yua06]. **Short** [AR03, BL03, CL09, CMJ09, HS06, Nak01]. **Short-Range** [Nak01]. **Shrinking** [Váz03]. **SIAM** [HKS07, Pla09b]. **Side** [BG08]. **Sign** [WXM06]. **Sign-Changing** [WXM06]. **Signal** [BNG04]. **Signals** [Sun07]. **Signorini** [Ren06]. **Similar** [BL07, CW00, LS03, Zho01, GGH05]. **Simple** [Piv00]. **Simulated** [CHK08]. **Simulation** [DE06]. **Sine** [Kat05]. **Sine-Gordon** [Kat05]. **Single** [CLR02, Pla09b, QXM08]. **Single-Impact** [CLR02, Pla09b]. **Single-Wave-Form** [QXM08]. **Singular** [Ban03, BDR09, DE09, Esp05, FGHS07, FM00, HK00a, KS01, LHK07, MW09, MH01, Osh07, PS06, Ria04, SR09, VZ09, ZY00]. **Singularities** [CF01, CFdlL04, Don00, Red02, Ren00]. **Singularly** [Bos00, DRY07, Mor03, Sti00, Tov08, Tzo06]. **Sixth** [JM09]. **Sixth-Order** [JM09]. **Size** [Gia05]. **SLEP** [NS04]. **Slip** [BMR09]. **Slippage** [Grü03]. **Slyozov** [Lau02, NP00]. **Small** [AK03, AIM03, Bou08, Fil07, HK00b, KPS09, KS09b, Pan06]. **Smoluchowski** [LLW03, MP05]. **Smooth** [ABR00, Ali03, BC06b, CT08, O'D08, Pro00]. **Smoothing** [CRTW05, KS07, Sze05]. **Smoothness** [FHW02]. **Snakes** [BKL⁺09]. **Sobolev** [Bra05, Can01, KK04a, Oga03, Yoo01]. **Solenoidal** [LW09]. **Solid** [Bla06, BMR09, GV00, HMS03, HMS04]. **Solidification** [BLRW06]. **Solitary**

[BD02, CGNT08, CMJ09, GW07, LL06, Miz01, Miz03, SW08]. **Solitons** [Kur04, Mar06b, MC01, SS09a]. **Solution** [ABDG04, Bos05, Bou00, Cas03, Cui08, Han01, LLYZ03, Mal00, MB08, MT09, Pro00, WY08]. **Solutions** [AK00, AS06, ABR00, Ali03, AS07, AGSS00, ANR09, AG02, BL07, BS00a, BS01, BK05, BPBW05, BCN05, BNP06, BCN02, BK04, BR06, Bia01, BD06a, BW04, BC05, BD02, BLM09, CFTV03, CR06, CW00, CDJ08, CdMGGK09, CM01, CD01, CL03, CQW03, CWY09, CT08, CJT09, CHK05, CEGMM09, CDM08, CF06b, DP09, DRY07, DDGM07, DS06, DDT04, DLS05, DL00, DZ03, DZ08, Esp05, ET09, FN05, FM09, GIK05, GW06, GIK08, GV05, Gev08, GGH05, GG00, Gom03, Gra08, GB04, GJS09, Hat03, HZ09, HKP07, Hof06, HK00b, HW02, HKS05, HKS07, IL05, JJS00, Joc00, Joc02, Joh09, JP00, JM08, JLM01, KK02, KK05, KMX08, KLVZ09, KK04b, Le05, LZ05, LP08, Lew05a, LY05, Lil07, LHK07, LS03, Lip01, MT03, MV08, Mik09, Miz01, MJZ04]. **Solutions** [MG05, Moo02, Nak03, Nak01, NN01, Pan09, PN08, PP00b, Per06, Pis04, QXM08, RW00a, RW03, RW05, RW08, Rie03, Rög05, SW09, ST08, SZ07, SP07, SS09b, Sug09, Tak00, Tov08, Váz03, WW07, Wal09a, Wan00, WLW09, WW02, Wu05, WC09, YCL01, Yin04, vDPP07, Mus05]. **Solvability** [Abd03, Bla06, BJ09, KS07, PP00a, PP04]. **Solvable** [MC01]. **Solvation** [Li09, Li11]. **Solvent** [Li09, Li11]. **Solving** [HSZ03a, HSZ03b]. **Some** [ACFS09, BB05, CEGMM09, CA00, DGP04, DN09, DZ03, Lin03, Osh07, ST08, Sch00, Var08, Wes02, Du00]. **Source** [BT07, Ha01, HY03, KY03b, TW09]. **Sources** [Fou06, GMS09]. **Space** [ANR09, BS01, BGL07, CRTW05, CF06b, DMPD09, FM01, HIN04, Kan04, KK04a, Nak03, NN09, Nis02, RTW01, Yoo01]. **Space-Time** [BS01]. **Spaces** [Auc06, Auc09, Bra05, FHW02, Han08, HNZ06, Kry01, Kyr04, MR02, Wu05]. **Sparse** [CDD03, GL07]. **Spatial** [CL04, Deu09, FKK09, FLM01, GW07, JZ09b, LR09, PP00b]. **Spatially** [Wal09a]. **Spatially-Structured** [Wal09a]. **SPDEs** [Kry09]. **Special** [AG01a, BD06b]. **Species** [HLMP03]. **Spectra** [CGNT08, RW03]. **Spectral** [Auc06, BC06a, BBW09, CGL08, HS08, LL05, Yoo01]. **Spectrum** [DN09, VA03]. **Spectrums** [BL03]. **Speed** [CQ07, Grü03]. **Speeds** [HZ08, ST01]. **Speer** [JM08]. **Spheres** [BG08, BGL07, DW05, FPR04, NW02, NPW06]. **Spherical** [RW08, UW07]. **Spherically** [GJX08, WZF08]. **Spike** [CK01b]. **Spline** [AS00, GK00, HNZ06]. **Splines** [BCR01, KS03b]. **Splitting** [Che00, GK05]. **Splitting-up** [GK05]. **Spohn** [JM08]. **Spread** [FLM01]. **Spreading** [GW06, Grü03, HZ08]. **Square** [BD06b]. **Squirt** [CFdlL04]. **Stability** [Alm08, AG02, BS08, BGHR03, BK02, BFV08, Bia01, Bou08, BLM09, CCD02, CD01, CLGZ06, CZZ07, Cou02, CT09, Cui08, DG09, DGG08, DGH00, DKP07, EM09, FN05, GR00, GIK05, GIK08, Gom03, Ha01, HY03, HH01, HM09b, Joh09, KPS09, KA00, LL05, LWS05, LL06, Lew01, Lew05b, Li08, LK01, LS03, LW08, LTT03, Mar06b, MZ05b, Nis02, NYZ04, NS04, PN08, Pro02, Pro01, PS08b, QXM08, QW09, RW05, Ron05, Sch00, SW08, SZ00, STZ02, Tsa07, WW02, WC09, YZ09]. **Stable** [AD05, Cou02, DDGM07, KP07, LRRBS09, MJZ04, Osh04, Sin06]. **Stage** [JZ09b, KGB06]. **Stage-Structured** [KGB06]. **Standard** [Lóp00]. **Standing** [Bou08, CT09, OT07]. **Star** [AS00, MS06]. **Star-Shaped** [MS06]. **Star-Supported** [AS00]. **Stars** [DGG08]. **State** [Alm08, AK03, Bla06, God09, HKM08, LMR08, LP08, Lie05, LL00, aLW09]. **States** [CL03, DW05, FG09, KPS09, LW05, LM08, LW08, MZ05a, Rou06]. **Static**

[CFTV03, Gia05, MO09, GL08]. **Stationary** [CP07a, Cui08, Dal09, GIK05, GIK08, GG07, Joc02, NN09, Osh04, Tak00, WC09]. **Steady** [AK03, CZZ07, FMS03, LW05, Lie05, LY09, MZ05a, Pro02, Wah06, Wal09b, Yua06, aLW09]. **Steady-State** [AK03, Lie05]. **Stefan** [MR08, PS08b, Vis07]. **Stefan-Type** [MR08, Vis07]. **Stems** [CKK06]. **Step** [GZ00]. **Stewartson** [VA03]. **Sticky** [NS09]. **Stieltjes** [FS09]. **Stiff** [KS06a]. **Stochastic** [BDR09, BDK09, CCK07, DMPD09, IM04, Kim00, Kim02, Kim05, LP08, LR09, Mik02, MR04, Mik09, SS09a, WCD07, Zha08]. **Stokes** [FN05, Kim13, AGSS00, ANR09, BDK09, Bra05, BKL04, CCS07, FGM05, FH07, FM01, HZ03, Hof06, Ift02, JNS06, JZ09a, Kel06, Kim06, Kim09, KK04b, LW09, LXY00, MV08, Mik02, MR04, Mik09, NYZ04, Per06, PRS08, QW09, SZ07, WX05, WZF08]. **Stokes-Like** [FGM05]. **Stokesian** [EM09]. **Stolz** [DE06]. **Stone** [IM01]. **Stopping** [GK00]. **Stored** [Pon07]. **Strain** [CG00, GL08]. **Strains** [BBN08, Mie04]. **Stratified** [Wal09b]. **Stress** [CM02, CDY04, Dal09, IWY08, MB08, NW03]. **Stress-Enhanced** [MB08]. **Stretching** [ET09]. **Strichartz** [Ban03]. **Strictly** [HL00]. **String** [BB08]. **Strong** [ANR09, CJ04, GSR05, Lew05a, Lew05b, MV08, Mik09, NYZ04, OT07, PS00, Rou03]. **Strongly** [AMSW05, BFK03]. **Structure** [HNZ06, HT09, JZ09b, LMR08, Pin00, Yin04]. **Structured** [KGB06, Wal09a]. **Structures** [AKS06, BF01]. **Study** [RW00b, Vui03]. **Sturm** [BBW09, Piv00]. **Subcritical** [PP04]. **Subdivision** [DLY07, KS09c, Pro01, Zho01, dVGH03]. **Subject** [HM09b]. **Successor** [QT05]. **Sufficient** [Pis04, SZ07]. **Suns** [DGG08]. **Super** [FM04]. **Super-Brownian** [FM04]. **Superconducting** [AC07, DD02b, Pan03]. **Superconductivity** [AH07, BCM00, LL03, SS03a]. **Superconductors** [Alm08, BK05, KS09b, LL00]. **Supercritical** [DF06]. **Superlinear** [AC04]. **Supersonic** [CZZ07, GH09, Mar08]. **Supply** [HKP07]. **Support** [HS06, KY03b, KS05a]. **Supported** [AS00, DGH00, HS08, NW02]. **Supremal** [BNG04]. **Surface** [AH07, Amb03, CS07, Dal09, GIK05, GIK08, GP05, GP06, KL08, PP00a, PS08b, Sin06]. **Surface-Piercing** [PP00a]. **Surfaces** [Are01, CWM05, FGHS07, KP07, Nar08, O'D08, Tor04]. **Surfactant** [GW06]. **Suspension** [Din03, Moo02]. **Suspensions** [BBP05, BBF06]. **Switch** [BK02]. **Switches** [GJS09]. **Symbols** [KP05]. **Symmetric** [CF06a, GJX08, HS08, Kan04, Lóp00, Nar08, PP00a, SZ07, WZF08]. **Symmetrical** [Tov08]. **Symmetrized** [ZD00]. **Symmetrizers** [Tra06]. **Symmetry** [DG09, EK08, ET09, FS00, GG00, JZ09a, KKS08]. **Symmetry-Breaking** [KKS08]. **Synchronism** [BS08]. **Synchronization** [CCK07, LAJ08]. **System** [AMP05, ACFS09, ANR09, BK05, BK00, Bla06, Bos03, CCD02, CCK07, CH06, CK01b, CF03, CLGZ06, CWY09, CG08, DP09, DRY07, DLS05, Din03, DE00, El 07, FN05, FGHS07, FGM05, FS03, FS05, GJV03, GW06, Hat03, Hwa04, Isa01, IWY08, Joc02, KK02, KK05, Kim00, KK04b, LM09, LMR08, LS03, Loe06, MP01, Mar06a, MT07a, Mas01, MG05, NW03, NS09, NN01, OT07, STZ02, TW09, Tsa07, UW07, WZ05, YCL01, Yoc07, Yua06]. **Systems** [AG02, BNR05, BS08, BK02, BBF06, Bia01, BSB03, CCK06, CQ07, DG00, DL00, DIN04, DS09, EL07, FGQ04, FL00, Gev08, Ha01, HY03, HKM08, HL00, HS02, HR08, HK00b, Jen00, JP00, JM09, KS02a, KS03a, Laf04, Le05, Lew05a, Li08, LM08, Lim02, MZ05a, MZ05b, MN05, MVNO08, NK08, NT08, Osh04, Osh07, Pro02, Ren00, Rou03, ST01, Sle08, Sug09, VA03, Wan00, WW02, Xu04, vBPW08].

Table [FG09]. **Tails** [vBPW08]. **Tallest** [CM98, CM00]. **Tangency** [HP09]. **Tangential** [KK08b]. **Tapered** [Vui03]. **TE** [SZ05]. **TE-Modes** [SZ05]. **Technique** [MNR05]. **Techniques** [KS02a, MCP08]. **Telecommunication** [DMP06]. **Temperature** [BMR09]. **Templates** [TY05]. **Temple** [AG02]. **Tension** [Amb03, PS08b]. **Term** [KY03b, Tzo06, ZY00]. **Terms** [AK03, GR03, Roh05]. **Test** [Abd03, Pot07]. **Their** [BFP08, KK08b, Lou06, PP00b, RW05, Tra06]. **Theorem** [BB05, Sug09, ZS02]. **Theorems** [KP07, MT03]. **Theories** [LZ03]. **Theory** [All08, BBW09, BP07, CW00, CMM06, DdlL00, Du00, El 07, Gom03, Gra09, HM09b, HSZ03a, Hur06, KK04a, KS01, MH01, NP00, Váz03]. **Thermal** [Xu03]. **Thermally** [MPP09]. **Thermistor** [Xu03]. **Thermocontrol** [GJS09]. **Thermoelasticity** [Isa01, Yoc07]. **Thermomechanical** [Ste05]. **Thermoviscoplasticity** [KSS02]. **Thin** [AKS06, BL06, BF06, BS00b, BF01, CCK07, CM06, CD08, DD02b, FMP09, GW06, Hor08]. **Thin-Walled** [FMP09]. **Third** [Amo01, GP06, KS07]. **Third-Order** [GP06]. **Three** [CN00, ET09, FS03, FS05, HT09, Kan04, RW03]. **Three-Dimensional** [ET09, HT09, RW03]. **Three-Phase** [FS03, FS05]. **Threshold** [WW02]. **Thresholds** [LT01]. **Tight** [NPW06]. **Tikhonov** [Cré03]. **Tilings** [Zho01]. **Time** [BS00a, BS01, BK00, BD06a, BDK09, Ble08, CGLL02, CWM08, CQW03, CT08, CR05, Coo00, DS06, Deu09, DS05, DS09, GWZ09, Hat03, HSZ03a, HSZ03b, Joc00, Kag01, Kri04, KS05b, Lim02, Lor00, LAJ08, MS06, Miz01, Nar08, NK08, Sac04, Xu09, YZ09, YZ05, Zui00, vBPW08, dMKST09]. **Time-Dependent** [Ble08, Deu09, GWZ09, Sac04]. **Time-Frequency** [KS05b]. **Time-Harmonic** [CWM08, HSZ03a, HSZ03b]. **Time-Incremental** [NK08]. **Time-Periodic** [Coo00]. **Time-Scale** [Zui00]. **Time-Varying** [LAJ08]. **Times** [GK00]. **Tissues** [WC09]. **Tomography** [Brü01, HHR09, HHR11, KKS02, MN00]. **Tori** [BCV06, Xu04]. **Torsional** [Moo02]. **Torus** [CL00, MNR05]. **Total** [All08, CR03, Lau02]. **Touching** [BV00b]. **Trace** [Auc06, Ryb01]. **Tracing** [SP07]. **Tracking** [Laf04, Red02]. **Traffic** [BR03, CGP05, HR06]. **Trajectories** [LRRBS09]. **Trajectory** [Kry03]. **Transform** [AK06, Cla00, PN08, RL06, Pal09]. **Transformation** [BBN08, JN04]. **Transformations** [MPP09]. **Transforms** [DY00]. **Transition** [ABV06, CP07a, Hat00, Hat03, LZ03, Lim02, PV05, Tri08, dPKW07]. **Transitions** [DP05, FM00, HK00a, Mos05, SZ09, Vis09]. **Transmission** [NRJ07, PS08a]. **Trasonic** [GH09, LY09, Yua06]. **Transport** [ACFS09, BT07, BC06b, BG08, CDJ08, CP00, Fig07, GP04, HLTT08, HKM08, HKS05, HKS07, aLW09]. **Trapping** [BDV03, Sch08]. **Traveling** [BCC03, BS00b, CFG06, CCP07, CN00, Din03, FC06, GB04, HZ08, Joh09, Li08, Mar08, Nis02, OW07, SW09, SZ00, Tan07, Tsa07, Var08, BC06a]. **Travelling** [CQ07, GR03, Kat05, Mar06a, PN08, vdBHV01]. **Travelling-Wave** [PN08]. **Travelling-Waves** [Mar06a]. **Trees** [Kov08]. **Trick** [Che00]. **Trigonometric** [BG04]. **Triple** [CWY09, EL02]. **Triple-Shock** [CWY09]. **Truncated** [KN09]. **Truncation** [FMS03]. **Tumor** [BFG04, CF03, Cui08, FH07]. **Tumors** [CE07, WC09]. **Turbulence** [Lay07]. **Turbulent** [DE06, MR04]. **Twist** [LLYZ03]. **Two** [Bel03, BIY08, BF01, BKL04, BCD05, CCK07, Cas03, CWY09, CY04, CN00, FLP05, Fil07, Fou06, GZ00, HP09, KS09a,

Kim02, KS01, LS00, LZ05, LP09, Lip01, MT03, MT07b, Pin00, Pla09a, RW00a, Sch08, Sun01, Yua06, Zha03a].

Two-Dimensional

[Bel03, BKL04, Cas03, CWY09, CY04, FLP05, Fil07, HP09, KS09a, Kim02, LZ05, LP09, MT03, Pin00, Pla09a, Yua06].

Two-Fluid [Sun01]. **Two-Layer** [CCK07].

Two-Phase [LS00, Lip01, Sch08].

Two-Scale [BF01, BCD05, MT07b].

Two-Step [GZ00]. **Type**

[CN01, CO06, El 07, GP06, GJS09, HNS08, KP08, MR02, MST07, MT08, MR08, Nik01, O'D08, Oga03, Vis07, BB05, GP05].

Unbounded [CWM05, GMS09, JN04, Li06].

Uncertainty [BCP06]. **Undercompressive** [BS00b]. **Underdamped** [QXM08].

Undulating [Lou06]. **Unfolding**

[CDD06, CDG08, Sti00]. **Uniform** [Dun01, HS02, JWW07, MP05, QW00, San05].

Uniformly [MZ05a]. **Unilateral** [BFG04, PS09b]. **Unique** [Bla06, NW03].

Uniqueness

[AG02, Are01, BCLM08, BR06, BW04, Bos05, BC06b, CWM05, CdMGK09, CO05, CFG06, CDM08, DK08, ET09, Fig07, GV00, Hof06, Ift02, Isa01, KY03b, KP07, LM09, LM08, LY09, MV08, MN05, Ren06, Mus05].

Univariate [DLY07]. **Universal** [DP05].

Unreachable [BV08]. **unstable** [EGW06].

Unsteady [BMR09, CGZ09, Gra08].

Unstirred [WNW07]. **Up-to-the** [BL01].

Upper [ORS06]. **Upscaling** [MDvD06].

Urban [BS05]. **Using**

[CDD03, Cré03, GL07, MCP08, RW00b].

Vacuum [CL03, LXY00]. **Validity** [Fra07].

Value [Abd03, Bos05, Ebm00, FS05, Lee09, LP02, MS04, NP00, PP00b, PRS08]. **Valued** [MT03]. **Values** [FPR04]. **Vanishing**

[AHM09, CL03, Coz09, FS00, Ift02, JNS06, MP03, MO09]. **Vapor** [Tri08]. **Variable** [CGLL02, CLGZ06, KK07, Mal00, Yua06].

Variable-Area [Yua06]. **Variables** [GR00].

Variation

[All08, BV02, CR03, GM01, ZS02].

Variational [AFM01, BN08, CM02, CWM05, EL02, FN05, IK01, IL05, KS06b, Li06, MT07b, Pel01, RW00a, Ste08, YYW08].

Varying [DG00, LAJ08]. **Vector**

[Lee09, LW09, Sch02]. **Velocity**

[BG08, Coz09, Nis02, Wes02, FKW06].

Venant [Nob09]. **Version** [BL01, Loe06].

Vertical [Ift02]. **Vertices** [Han01]. **Very**

[ANR09, BCN02]. **via** [CK01a, CDD06, Gra09, HK00a, KY03a, KS02a, LZ05, Lil07, Mei08, MS06, MT07b, MO09, NT08, QT05].

Vibrations [BB08]. **Virus** [FLM01].

Viscoelastic [CM01, Lim02, MT08].

Viscoelastodynamic [PS09b].

Viscoplasticity [Nes07]. **Viscosity**

[AS06, BBP05, CR06, Coz09, FMS03, FS00, Gom03, GJX08, HW02, Ift02, JNS06, JLM01, LK01, LS01, MP03, Pis04, WX05, WZF08].

Viscous [BGSZ01, Bjo08, Bou00, CMZ08, DS05, FL00, GW06, Gra08, HW09, HMS03, HMS04, LLLY04, LK01, Nak03, NN09, PLN02, Rou03, SS08, SP07, TTX03]. **Vision**

[AFM01]. **Visual** [CMS04]. **Vlasov** [Bos03, Bos05, CH06, Hwa04, Kag01, LMR08].

VMO [KK07, Kry09]. **Volatility** [Cré03].

Voltage [AK03]. **Volterra**

[DGG08, LRRBS09, MT09]. **Volume**

[Lau02, LW05]. **Vortex**

[AB06, Amb03, CZZ07, DZ03, Fil07, LM09, LYY05, LL00, Spi03]. **Vortex-Wave**

[LM09]. **Vortices** [AC07, LL03, MNR05].

Vorticity [BR06, Coz09, ET09, GW07, Hur06, LM09, Var08, Wah06]. **Vries**

[CCP07, DDT04, Joh09, MC01, Miz01]. **vs**

[BDDS06].

Wagner [Lau02, NP00]. **Waiting** [DS09].

Walled [FMP09]. **Walls** [CZZ07].

Wasserstein [CDJ08, DS08, NS09, OW05].

Water

[BST05, CMZ08, CT08, CN00, GW07,

Hur06, KS06b, Var08, Wal09b, Wri05].
Wave [Are01, BD06a, BD02, CKK06, CWM08, CQ07, CHK05, CCP07, Coo00, GH09, GB04, GZ09, HMS04, Joh09, KK08b, LM09, LL00, LL03, Mei08, MS06, Moo02, PP00a, PN08, QXM08, QW09, SW09, ST01, Tsa07, VZ09, YZ05, Zha08].
Wave-Number-Explicit [CWM08].
Wavefronts [OW07]. **Waveguide** [JLP06].
Wavelet [Che00, Cla00, GK00, Joh03, RTW01, Ste04, Zui00]. **Wavelets** [HS06, HS08, dVGH03]. **Waves** [AKS06, BCC03, BGSZ01, BGHR03, BS00b, Bou08, BY04, BST05, CGNT08, CFG06, CMJ09, CN00, CT09, Din03, FC06, Gor02, GW07, HZ08, HW03, Hur06, JNS06, JLP06, KMX08, Kat05, KT01, KS06b, LLLY04, LL06, Lew01, Lew05b, Li08, LK01, Lou06, Mar08, Mar06a, MC01, Miz01, Miz03, Nak03, NN09, Nis02, NYZ04, Nob09, OT07, SS08, SW08, SZ00, Sun01, Tra06, UW07, Var08, Wah06, Wal09b, Wri05, vdBHV01, BC06a].
Weak [AS07, ANR09, BCN02, BR06, Cas03, CHK05, Cou02, CS06, DZ03, ET09, FN05, GP04, Gra08, Grü03, Hof06, JLM01, MB08, Miz03, Pan09, Per06, Rög05, SR09]. **Weaker** [Xu04]. **Weakly** [Kov08, MT08, Sch02, SZ04, WY08]. **Wear** [KS02b]. **Wearing** [IM01]. **Weight** [QW00]. **Weighted** [CR03, Han08, Van85, Van01]. **Weights** [Kry01]. **Well** [AH08, Amb03, ACFS09, CMZ08, CKS+01, CKS+02, El 07, GH08, HKK01, HL06, LP09, LCS03, MS04, PRS08, Sac04, aLW09]. **Well-Posed** [MS04]. **Well-Posedness** [AH08, Amb03, ACFS09, CMZ08, CKS+01, CKS+02, El 07, GH08, HL06, LP09, LCS03, PRS08, aLW09]. **Wells** [Zha03a]. **White** [DDT04, JWW07]. **Whitham** [KPT09]. **Whole** [FM01]. **Wigner** [Mac04, Zha03b]. **Willmore** [DG09]. **Wilson** [KS05b]. **Windows** [BD06b]. **Without** [AS06, FL00, Joc05, STZ02]. **Wound** [CF00]. **Wriggled** [RW05].

X. [AH07].

Young [LHK07, CP07a, Ped04, Ped06, Rie03, Zha03a]. **Young-Measure** [LHK07].

Zabolotskaya [KP08]. **Zakharov** [KS03a, LP09, Mas01, OT07]. **Zeldovich** [LZ03]. **Zero** [BPBW05, KL02, LS01, Van01, WX05, Van85]. **Zero-Hamiltonian** [BPBW05]. **Zero-Viscosity** [WX05].

References

Aftalion:2006:VLR

[AB06] Amandine Aftalion and Xavier Blanc. Vortex lattices in rotating Bose–Einstein condensates. *SIAM Journal on Mathematical Analysis*, 38(3):874–893, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Abdulla:2003:FBV

[Abd03] Ugur G. Abdulla. First boundary value problem for the diffusion equation I. Iterated logarithm test for the boundary regularity and solvability. *SIAM Journal on Mathematical Analysis*, 34(6):1422–1434, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41504>.

Amirat:2004:AAS

[ABDG04] Y. Amirat, O. Bodart, U. De Maio, and A. Gaudiello. Asymptotic approximation of the solution of the Laplace

- equation in a domain with highly oscillating boundary. *SIAM Journal on Mathematical Analysis*, 35(6):1598–1616, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41487>.
- [ABR00] **Ali:2000:GER** [AC07] G. Ali, D. Bini, and S. Rionero. Global existence and relaxation limit for smooth solutions to the Euler–Poisson model for semiconductors. *SIAM Journal on Mathematical Analysis*, 32(3):572–587, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35517>.
- [ABV06] **Ansini:2006:MAC** [AC08] Nadia Ansini, Andrea Braides, and Vanda Valente. Multi-scale analysis by Γ -convergence of a one-dimensional non-local functional related to a shell-membrane transition. *SIAM Journal on Mathematical Analysis*, 38(3):944–976, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [AC04] **Alicandro:2004:GIR** [ACFS09] Roberto Alicandro and Marco Cicalese. A general integral representation result for continuum limits of discrete energies with superlinear growth. *SIAM Journal on Mathematical Analysis*, 36(1):1–37, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42647>.
- Antontsev:2007:FSV** [AC07] S. N. Antontsev and N. V. Chemetov. Flux of superconducting vortices through a domain. *SIAM Journal on Mathematical Analysis*, 39(1):263–280, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Amadori:2008:MMF** [AC08] Debora Amadori and Andrea Corli. On a model of multiphase flow. *SIAM Journal on Mathematical Analysis*, 40(1):134–166, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Ambrosio:2009:SNW** [ACFS09] Luigi Ambrosio, Gianluca Crippa, Alessio Figalli, and Laura V. Spinolo. Some new well-posedness results for continuity and transport equations, and applications to the chromatography system. *SIAM Journal on Mathematical Analysis*, 41(5):1890–1920, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- [AD05] **Alessandrini:2005:SDI**
 G. Alessandrini and M. Di Cristo. Stable determination of an inclusion by boundary measurements. *SIAM Journal on Mathematical Analysis*, 37(1):200–217, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44191>.
- [AFM01] **Ambrosio:2001:VAS**
 Luigi Ambrosio, Loris Faina, and Riccardo March. Variational approximation of a second order free discontinuity problem in computer vision. *SIAM Journal on Mathematical Analysis*, 32(6):1171–1197, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36832>.
- [AG01a] **Alessandrini:2001:DCS**
 Giovanni Alessandrini and Romina Gaburro. Determining conductivity with special anisotropy by boundary measurements. *SIAM Journal on Mathematical Analysis*, 33(1):153–171, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36956>.
- [AG01b] **Azerad:2001:MJH**
 Pascal Azérad and Francisco
- [AG02] **Ancona:2002:USS**
 Fabio Ancona and Paola Goatin. Uniqueness and stability of L^∞ solutions for Temple class systems with boundary and properties of the attainable sets. *SIAM Journal on Mathematical Analysis*, 34(1):28–63, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38342>.
- [AGGM05] **Arioli:2005:SFO**
 Gianni Arioli, Filippo Gazzola, Hans-Christoph Grunau, and Enzo Mitidieri. A semilinear fourth order elliptic problem with exponential nonlinearity. *SIAM Journal on Mathematical Analysis*, 36(4):1226–1258, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41853>.
- [AGSS00] **Amrouche:2000:PDS**
 Cherif Amrouche, Vivette Gi-

- rault, Maria Elena Schonbek, and Tomas P. Schonbek. Pointwise decay of solutions and of higher derivatives to Navier–Stokes equations. *SIAM Journal on Mathematical Analysis*, 31(4):740–753, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34617>.
- [AHT03] **Almog:2007:DSS**
Yaniv Almog and Bernard Helffer. The distribution of surface superconductivity along the boundary: On a conjecture of X. B. Pan. *SIAM Journal on Mathematical Analysis*, 38(6):1715–1732, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [AH07] **Abidi:2008:GWP**
Hammadi Abidi and Taoufik Hmidi. On the global well-posedness of the critical quasi-geostrophic equation. *SIAM Journal on Mathematical Analysis*, 40(1):167–185, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [AH08] **Angenent:2009:RVB**
S. B. Angenent, J. Hulshof, and H. Matano. The radius of vanishing bubbles in equivariant harmonic map flow from D^2 to S^2 . *SIAM Journal on Mathematical Analysis*, 41(3):1121–1137, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [AHM09] **Angenent:2003:MFM**
Sigurd Angenent, Steven Haker, and Allen Tannenbaum. Minimizing flows for the Monge–Kantorovich problem. *SIAM Journal on Mathematical Analysis*, 35(1):61–97, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41092>.
- [AIM03] **Ammari:2003:RSI**
Habib Ammari, Ekaterina Iakovleva, and Shari Moskow. Recovery of small inhomogeneities from the scattering amplitude at a fixed frequency. *SIAM Journal on Mathematical Analysis*, 34(4):882–900, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39278>.
- [AK00] **Abdulla:2000:IDL**
Ugur G. Abdulla and John R. King. Interface development and local solutions to reaction-diffusion equations. *SIAM Journal on Mathematical Analysis*, 32(2):235–260, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39278>.

[//epubs.siam.org/sam-bin/dbq/article/32986](http://epubs.siam.org/sam-bin/dbq/article/32986).

Ammari:2003:HOT

- [AK03] Habib Ammari and Hyeonbae Kang. High-order terms in the asymptotic expansions of the steady-state voltage potentials in the presence of conductivity inhomogeneities of small diameter. *SIAM Journal on Mathematical Analysis*, 34(5):1152–1166, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39923>.

Ambartsoumian:2006:RDP

- [AK06] Gaik Ambartsoumian and Peter Kuchment. A range description for the planar circular Radon transform. *SIAM Journal on Mathematical Analysis*, 38(2):681–692, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Ammari:2006:SEW

- [AKS06] Habib Ammari, Hyeonbae Kang, and Fadil Santosa. Scattering of electromagnetic waves by thin dielectric planar structures. *SIAM Journal on Mathematical Analysis*, 38(4):1329–1342, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Albanese:2006:PKE

- [AL06] Claudio Albanese and Stephan Lawi. Poisson kernels as expansions in q -Racah polynomials. *SIAM Journal on Mathematical Analysis*, 38(3):977–984, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Alazard:2006:LMN

- [Ala06] Thomas Alazard. Low Mach number flows and combustion. *SIAM Journal on Mathematical Analysis*, 38(4):1186–1213, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Ali:2003:GES

- [Ali03] G. Ali. Global existence of smooth solutions of the N -dimensional Euler–Poisson model. *SIAM Journal on Mathematical Analysis*, 35(2):389–422, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39322>.

Allard:2008:TVR

- [All08] William K. Allard. Total variation regularization for image denoising, I. geometric theory. *SIAM Journal on Mathematical Analysis*, 39(4):1150–1190, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- [Alm08] **Almog:2008:SNS**
 Y. Almog. The stability of the normal state of superconductors in the presence of electric currents. *SIAM Journal on Mathematical Analysis*, 40(2):824–850, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [aLW09] **anowski:2009:WPC**
 Piotr Krzy anowski, Philippe Laurençot, and Dariusz Wrzosek. Well-posedness and convergence to the steady state for a model of morphogen transport. *SIAM Journal on Mathematical Analysis*, 40(5):1725–1749, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [AM05] **Aiki:2005:PPM**
 Toyohiko Aiki and Emil Minchev. A prey-predator model with hysteresis effect. *SIAM Journal on Mathematical Analysis*, 36(6):2020–2032, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44018>.
- [Amb03] **Ambrose:2003:WPV**
 David M. Ambrose. Well-posedness of vortex sheets with surface tension. *SIAM Journal on Mathematical Analysis*, 35(1):211–244, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40386>.
- [Amo01] **Amour:2001:IFT**
 L. Amour. Isospectral flows of third order operators. *SIAM Journal on Mathematical Analysis*, 32(6):1375–1389, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34724>.
- [AMP05] **Abdallah:2005:AAS**
 Naoufel Ben Abdallah, Florian Méhats, and Olivier Pinaud. Adiabatic approximation of the Schrödinger-Poisson system with a partial confinement. *SIAM Journal on Mathematical Analysis*, 36(3):986–1013, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43791>.
- [AMR02] **Alessandrini:2002:DIE**
 Giovanni Alessandrini, Antonino Morassi, and Edi Rosset. Detecting an inclusion in an elastic body by boundary measurements. *SIAM Journal on Mathematical Analysis*, 33(6):1247–1268, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38894>.

- [AMRT09] **Andreu:2009:NLE**
 F. Andreu, J. M. Mazón, J. D. Rossi, and J. Toledo. A nonlocal p -Laplacian evolution equation with nonhomogeneous Dirichlet boundary conditions. *SIAM Journal on Mathematical Analysis*, 40(5):1815–1851, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [AMSW05] **Abdallah:2005:NSE**
 Naoufel Ben Abdallah, Florian Méhats, Christian Schmeiser, and Rada M. Weishäupl. The nonlinear Schrödinger equation with a strongly anisotropic harmonic potential. *SIAM Journal on Mathematical Analysis*, 37(1):189–199, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61455>.
- [AN00] **Ammari:2000:LFE**
 H. Ammari and J.-C. Nédélec. Low-frequency electromagnetic scattering. *SIAM Journal on Mathematical Analysis*, 31(4):836–861, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34360>.
- [ANR09] **Amrouche:2009:SVW**
 Chérif Amrouche, Šárka Nečasová, and Yves Raudin. From strong
- to very weak solutions to the Stokes system with Navier boundary conditions in the half-space. *SIAM Journal on Mathematical Analysis*, 41(5):1792–1815, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [AP06] **Allaire:2006:LSE**
 Grégoire Allaire and Mariapia Palombaro. Localization for the Schrödinger equation in a locally periodic medium. *SIAM Journal on Mathematical Analysis*, 38(1):127–142, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [AR03] **Alterman:2003:DNG**
 Deborah Alterman and Jeffrey Rauch. Diffractive nonlinear geometric optics for short pulses. *SIAM Journal on Mathematical Analysis*, 34(6):1477–1502, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40358>.
- [Are01] **Arens:2001:UEW**
 T. Arens. Uniqueness for elastic wave scattering by rough surfaces. *SIAM Journal on Mathematical Analysis*, 33(2):461–476, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40358>.

org/sam-bin/dbq/article/
35947.

Alfeld:2000:NSS

[AS00]

Peter Alfeld and Larry L. Schumaker. Nonexistence of star-supported spline bases. *SIAM Journal on Mathematical Analysis*, 31(2):455–465, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34234>.

Ahn:2006:ESC

[AS06]

Jeongho Ahn and David E. Stewart. Existence of solutions for a class of impact problems without viscosity. *SIAM Journal on Mathematical Analysis*, 38(1):37–63, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Amirat:2007:GWS

[AS07]

Y. Amirat and V. Shelukhin. Global weak solutions to equations of compressible miscible flows in porous media. *SIAM Journal on Mathematical Analysis*, 38(6):1825–1846, ??? 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Auchmuty:2006:SCT

[Auc06]

Giles Auchmuty. Spectral characterization of the trace spaces $H^s(\partial\Omega)$. *SIAM Journal on Mathematical Analysis*, 38(3):894–905, January 2006. CO-

DEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Auchmuty:2009:RKH

[Auc09]

Giles Auchmuty. Reproducing kernels for Hilbert spaces of real harmonic functions. *SIAM Journal on Mathematical Analysis*, 41(5):1994–2009, ??? 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Babadjian:2008:LSQ

[Bab08]

Jean-François Babadjian. Lower semicontinuity of quasi-convex bulk energies in SBV and integral representation in dimension reduction. *SIAM Journal on Mathematical Analysis*, 39(6):1921–1950, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Banica:2003:DSI

[Ban03]

Valeria Banica. Dispersion and Strichartz inequalities for Schrödinger equations with singular coefficients. *SIAM Journal on Mathematical Analysis*, 35(4):868–883, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41502>.

Bambusi:2005:BLT

[BB05]

Dario Bambusi and Massimiliano Berti. A Birkhoff–Lewis–Type theorem for some Hamil-

- tonian PDEs. *SIAM Journal on Mathematical Analysis*, 37(1):83–102, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43610>. [BBP05]
- Baldi:2008:FVN**
- [BB08] Pietro Baldi and Massimiliano Berti. Forced vibrations of a nonhomogeneous string. *SIAM Journal on Mathematical Analysis*, 40(1):382–412, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [BBW09]
- Berres:2006:NPQ**
- [BBF06] Stefan Berres, Raimund Bürger, and Hermano Frid. Neumann problems for quasilinear parabolic systems modeling polydisperse suspensions. *SIAM Journal on Mathematical Analysis*, 38(2):557–573, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [BC05]
- Berlyand:2008:RCT**
- [BBN08] Leonid Berlyand, Oscar Bruno, and Alexei Novikov. Rise of correlations of transformation strains in random polycrystals. *SIAM Journal on Mathematical Analysis*, 40(4):1550–1584, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [BC06a]
- Berlyand:2005:NAE**
- Leonid Berlyand, Liliana Borcea, and Alexander Panchenko. Network approximation for effective viscosity of concentrated suspensions with complex geometry. *SIAM Journal on Mathematical Analysis*, 36(5):1580–1628, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42470>.
- Bennewitz:2009:ISS**
- C. Bennewitz, B. M. Brown, and R. Weikard. Inverse spectral and scattering theory for the half-line left-definite Sturm–Liouville problem. *SIAM Journal on Mathematical Analysis*, 40(5):2105–2131, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Bressan:2005:GSH**
- [BC05] Alberto Bressan and Adrian Constantin. Global solutions of the Hunter–Saxton equation. *SIAM Journal on Mathematical Analysis*, 37(3):996–1026, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/62303>.
- Bates:2006:SAT**
- [BC06a] Peter W. Bates and Fengxin Chen. Spectral analysis

- of traveling waves for non-local evolution equations. *SIAM Journal on Mathematical Analysis*, 38(1):116–126, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BCLM08] **Barles:2008:GER**
Guy Barles, Pierre Cardaliaguet, Olivier Ley, and Régis Monneau. Global existence results and uniqueness for dislocation equations. *SIAM Journal on Mathematical Analysis*, 40(1):44–69, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BC06b] **Bouchut:2006:URS**
François Bouchut and Gianluca Crippa. Uniqueness, renormalization, and smooth approximations for linear transport equations. *SIAM Journal on Mathematical Analysis*, 38(4):1316–1328, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BCM00] **Bonnet:2000:CMM**
A. Bonnet, S. J. Chapman, and R. Monneau. Convergence of Meissner minimizers of the Ginzburg–Landau energy of superconductivity as $\kappa \rightarrow +\infty$. *SIAM Journal on Mathematical Analysis*, 31(6):1374–1395, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34616>.
- [BCC03] **Bates:2003:TWB**
Peter W. Bates, Xinfu Chen, and Adam J. J. Chmaj. Traveling waves of bistable dynamics on a lattice. *SIAM Journal on Mathematical Analysis*, 35(2):520–546, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37400>.
- [BCN02] **Bellout:2002:CVW**
Hamid Bellout, Emil Cornea, and Jindrich Necas. On the concept of very weak L^2 solutions to Euler’s equations. *SIAM Journal on Mathematical Analysis*, 33(5):995–1006, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38429>.
- [BCD05] **Briane:2005:LCT**
Marc Briane and Juan Casado-Díaz. Lack of compactness in two-scale convergence. *SIAM Journal on Mathematical Analysis*, 37(2):343–346, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/62135>.
- [BCN05] **Bellettini:2005:ESE**
Giovanni Bellettini, Vicent Caselles, and Matteo Novaga. Explicit solutions of the eigen-

- value problem $\operatorname{div}\left(\frac{Du}{d}|u|\right) = u$ in R^2 . *SIAM Journal on Mathematical Analysis*, 36(4): 1095–1129, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43000>. [BCV06]
- [BCP06] **Benedetto:2006:OEB**
John J. Benedetto, Wojciech Czaja, and Alexander M. Powell. An optimal example for the Balian–Low uncertainty principle. *SIAM Journal on Mathematical Analysis*, 38(1):333–345, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BCQ01] **Buckdahn:2001:RFM**
R. Buckdahn, P. Cardaliaguet, and M. Quincampoix. A representation formula for the mean curvature motion. *SIAM Journal on Mathematical Analysis*, 33(4):827–846, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38033>. [BD02]
- [BD06a] **Beatson:2001:FER**
R. K. Beatson, J. B. Cherie, and D. L. Ragozin. Fast evaluation of radial basis functions: Methods for four-dimensional polyharmonic splines. *SIAM Journal on Mathematical Analysis*, 32(6):1272–1310, 2001. [BD06b]
- Biasco:2006:DEI**
Luca Biasco, Luigi Chierchia, and Enrico Valdinoci. N -dimensional elliptic invariant tori for the planar $(N+1)$ -body problem. *SIAM Journal on Mathematical Analysis*, 37(5): 1560–1588, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36176>.
- Bridges:2002:LIS**
Thomas J. Bridges and Gianne Derks. Linear instability of solitary wave solutions of the Kawahara equation and its generalizations. *SIAM Journal on Mathematical Analysis*, 33(6):1356–1378, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36149>.
- Biasco:2006:TPS**
Luca Biasco and Laura Di Gregorio. Time periodic solutions for the nonlinear wave equation with long minimal period. *SIAM Journal on Mathematical Analysis*, 38(4):1090–1125, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- [BD06b] **Burchard:2006:GOW**
 Almut Burchard and Jochen Denzler. On the geometry of optimal windows, with special focus on the square. *SIAM Journal on Mathematical Analysis*, 37(6):1800–1827, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BD09] **Barchiesi:2009:HFR**
 Marco Barchiesi and Gianni Dal Maso. Homogenization of fiber reinforced brittle materials: The extremal cases. *SIAM Journal on Mathematical Analysis*, 41(5):1874–1889, ??? 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BDDS06] **Burger:2006:KSM**
 Martin Burger, Marco Di Francesco, and Yasmin Dolak-Struss. The Keller–Segel model for chemotaxis with prevention of overcrowding: Linear vs. nonlinear diffusion. *SIAM Journal on Mathematical Analysis*, 38(4):1288–1315, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BDK09] **Blanchet:2009:SSD**
 Adrien Blanchet, Jean Dolbeault, and Micha Kowalczyk. Stochastic Stokes’ drift, homogenized functional inequalities, and large time behavior of Brownian ratchets. *SIAM Journal on Mathematical Analysis*, 41(1):46–76, ??? 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BDR09] **Barbu:2009:SDN**
 Viorel Barbu, Giuseppe Da Prato, and Michael Röckner. Stochastic nonlinear diffusion equations with singular diffusivity. *SIAM Journal on Mathematical Analysis*, 41(3):1106–1120, ??? 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BDV03] **Bertsch:2003:AOT**
 M. Bertsch, R. Dal Passo, and C. J. Van Duijn. Analysis of oil trapping in porous media flow. *SIAM Journal on Mathematical Analysis*, 35(1):245–267, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40737>.
- [Bel03] **Belishev:2003:CPT**
 M. I. Belishev. The Calderon problem for two-dimensional manifolds by the BC-method. *SIAM Journal on Mathematical Analysis*, 35(1):172–182, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41391>.

Bouchitte:2001:HTS

- [BF01] Guy Bouchitté and Ilaria Fragalà. Homogenization of thin structures by two-scale method with respect to measures. *SIAM Journal on Mathematical Analysis*, 32(6):1198–1226, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37026>.

Beretta:2006:AFD

- [BF06] Elena Beretta and Elisa Francini. An asymptotic formula for the displacement field in the presence of thin elastic inhomogeneities. *SIAM Journal on Mathematical Analysis*, 38(4):1249–1261, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Bertuzzi:2004:FBP

- [BFG04] Alessandro Bertuzzi, Antonio Fasano, and Alberto Gandolfi. A free boundary problem with unilateral constraints describing the evolution of a tumor cord under the influence of cell killing agents. *SIAM Journal on Mathematical Analysis*, 36(3):882–915, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40606>.

Burger:2003:FBP

- [BFK03] Raimund Bürger, Hermano Frid, and Kenneth H. Karlsen. On a free boundary problem for a strongly degenerate quasi-linear parabolic equation with an application to a model of pressure filtration. *SIAM Journal on Mathematical Analysis*, 34(3):611–635, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40100>.

Barrett:2008:HMH

- [BFP08] John W. Barrett, Xiaobing Feng, and Andreas Prohl. On p -harmonic map heat flows for $1 \leq p < \infty$ and their finite element approximations. *SIAM Journal on Mathematical Analysis*, 40(4):1471–1498, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Beretta:2008:DLC

- [BFV08] Elena Beretta, Elisa Francini, and Sergio Vessella. Determination of a linear crack in an elastic body from boundary measurements — Lipschitz stability. *SIAM Journal on Mathematical Analysis*, 40(3):984–1002, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- [BG04] **Bass:2004:RSM**
 Richard F. Bass and Karlheinz Gröchenig. Random sampling of multivariate trigonometric polynomials. *SIAM Journal on Mathematical Analysis*, 36(3):773–795, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43231>.
- [BG08] **Bournaveas:2008:ASK**
 Nikolaos Bournaveas and Susana Gutiérrez. Averages over spheres for kinetic transport equations with velocity derivatives in the right-hand side. *SIAM Journal on Mathematical Analysis*, 40(2):653–674, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BGHR03] **Benzoni-Gavage:2003:NSS**
 S. Benzoni-Gavage, P. Huot, and F. Rousset. Nonlinear stability of semidiscrete shock waves. *SIAM Journal on Mathematical Analysis*, 35(3):639–707, January 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BGL07] **Brownlee:2007:ERE**
 R. A. Brownlee, E. H. Georgoulis, and J. Levesley. Extending the range of error estimates for radial approximation in Euclidean space and on spheres. *SIAM Journal on Mathematical Analysis*, 39(2):554–564, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BGM08] **Blanchard:2008:BHR**
 Dominique Blanchard, Antonio Gaudiello, and Taras A. Mel'nyk. Boundary homogenization and reduction of dimension in a Kirchhoff–Love plate. *SIAM Journal on Mathematical Analysis*, 39(6):1764–1787, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BGSZ01] **Benzoni-Gavage:2001:AEF**
 Sylvie Benzoni-Gavage, Denis Serre, and Kevin Zumbrun. Alternate Evans functions and viscous shock waves. *SIAM Journal on Mathematical Analysis*, 32(5):929–962, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36183>.
- [Bia01] **Bianchini:2001:SSH**
 Stefano Bianchini. Stability of L^∞ solutions for hyperbolic systems with coinciding shocks and rarefactions. *SIAM Journal on Mathematical Analysis*, 33(4):959–981, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37790>.

- [BIY08] **Bellassoued:2008:IPD**
 M. Bellassoued, O. Imanuvilov, and M. Yamamoto. Inverse problem of determining the density and two Lamé coefficients by boundary data. *SIAM Journal on Mathematical Analysis*, 40(1):238–265, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BJ09] **Bock:2009:SDC**
 Igor Bock and Jiří Jarušek. Solvability of dynamic contact problems for elastic von Kármán plates. *SIAM Journal on Mathematical Analysis*, 41(1):37–45, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Bjo08] **Bjorland:2008:DAV**
 Clayton Bjorland. Decay asymptotics of the viscous Camassa–Holm equations in the plane. *SIAM Journal on Mathematical Analysis*, 40(2):516–539, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BK00] **Bertsch:2000:SDP**
 M. Bertsch and S. Kamin. A system of degenerate parabolic equations from plasma physics: The large time behavior. *SIAM Journal on Mathematical Analysis*, 31(4):776–790, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/33661>.
- [BK02] **Beretta:2002:GSS**
 Edoardo Beretta and Yang Kuang. Geometric stability switch criteria in delay differential systems with delay dependent parameters. *SIAM Journal on Mathematical Analysis*, 33(5):1144–1165, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37608>.
- [BK04] **Bendahmane:2004:RES**
 Mostafa Bendahmane and Kenneth H. Karlsen. Renormalized entropy solutions for quasi-linear anisotropic degenerate parabolic equations. *SIAM Journal on Mathematical Analysis*, 36(2):405–422, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42893>.
- [BK05] **Bauman:2005:ASL**
 Patricia Bauman and Yangsuk Ko. Analysis of solutions to the Lawrence–Doniach system for layered superconductors. *SIAM Journal on Mathematical Analysis*, 37(3):914–940, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42893>.

- [//epubs.siam.org/sam-bin/dbq/article/44459](http://epubs.siam.org/sam-bin/dbq/article/44459).
- [BKL04] Didier Bresch, Alexandre Kazhikhov, and Jérôme Lemoine. On the two-dimensional hydrostatic Navier–Stokes equations. *SIAM Journal on Mathematical Analysis*, 36(3):796–814, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42224>.
- [BKL⁺09] Margaret Beck, Jürgen Knobloch, David J. B. Lloyd, Björn Sandstede, and Thomas Wagenknecht. Snakes, ladders, and isolas of localized patterns. *SIAM Journal on Mathematical Analysis*, 41(3):936–972, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BL01] Adel Blouza and Hervé Le Dret. An up-to-the boundary version of Friedrichs’s lemma and applications to the linear Koiter shell model. *SIAM Journal on Mathematical Analysis*, 33(4):877–895, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38001>.
- [BL03] **Bresch:2004:TDH**
- [BL06] **Beck:2009:SLI**
- [BL07] **Blouza:2001:BVF**
- Barrailh:2003:GFD**
- Karen Barrailh and David Lannes. A general framework for diffractive optics and its applications to lasers with large spectrums and short pulses. *SIAM Journal on Mathematical Analysis*, 34(3):636–674, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39897>.
- Belik:2006:GCS**
- Pavel Belík and Mitchell Luskin. The gamma-convergence of a sharp interface thin film model with nonconvex elastic energy. *SIAM Journal on Mathematical Analysis*, 38(2):414–433, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Bagland:2007:SSS**
- Véronique Bagland and Philippe Laurencot. Self-similar solutions to the Oort–Hulst–Safronov coagulation equation. *SIAM Journal on Mathematical Analysis*, 39(2):345–378, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Blanc:2006:USS**
- [Bla06] X. Blanc. Unique solvability of a system of nonlinear elliptic PDEs arising in solid state physics. *SIAM Journal on*

- Mathematical Analysis*, 38(4): 1235–1248, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [BMR09]
- Blesgen:2008:DIS**
- [Ble08] Thomas Blesgen. On diffusion induced segregation in time-dependent domains. *SIAM Journal on Mathematical Analysis*, 39(4):1260–1294, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Buica:2009:ASP**
- [BLM09] Adriana Buică, Jaume Llibre, and Oleg Makarenkov. Asymptotic stability of periodic solutions for nonsmooth differential equations with application to the nonsmooth van der Pol oscillator. *SIAM Journal on Mathematical Analysis*, 40(6): 2478–2495, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Bowen:2006:SPR**
- [BLRW06] L. Bowen, R. Lyons, C. Radin, and P. Winkler. A solidification phenomenon in random packings. *SIAM Journal on Mathematical Analysis*, 38(4): 1075–1089, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [BNG04]
- Bulicek:2009:MAU**
- M. Bulíček, J. Málek, and K. R. Rajagopal. Mathematical analysis of unsteady flows of fluids with pressure, shear-rate, and temperature dependent material moduli that slip at solid boundaries. *SIAM Journal on Mathematical Analysis*, 41(2):665–707, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Berlyand:2002:ENA**
- [BN02] Leonid Berlyand and Alexei Novikov. Error of the network approximation for densely packed composites with irregular geometry. *SIAM Journal on Mathematical Analysis*, 34(2):385–408, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39714>.
- Bocea:2008:CPL**
- [BN08] Marian Bocea and Vincenzo Nesi. Γ -convergence of power-law functionals, variational principles in L^∞ , and applications. *SIAM Journal on Mathematical Analysis*, 39(5):1550–1576, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Braga-Neto:2004:SMS**
- Ulisses Braga-Neto and John Goutsias. Supremal multiscale

- signal analysis. *SIAM Journal on Mathematical Analysis*, 36(1):94–120, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40994>. [Bos00]
- [BNP06] G. Bellettini, M. Novaga, and E. Paolini. Global solutions to the gradient flow equation of a nonconvex functional. *SIAM Journal on Mathematical Analysis*, 37(5):1657–1687, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). **Bellettini:2006:GSG**
- [Bos03] M. Bostan. Permanent regimes for the 1D Vlasov–Poisson system with boundary conditions. *SIAM Journal on Mathematical Analysis*, 35(4):922–948, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41642>. **Bostan:2003:PRV**
- [BNR05] M. Baro, H. Neidhardt, and J. Rehberg. Current coupling of drift-diffusion models and Schrödinger–Poisson systems: Dissipative hybrid models. *SIAM Journal on Mathematical Analysis*, 37(3):941–981, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61169>. **Baro:2005:CCD**
- [Bos05] M. Bostan. Existence and uniqueness of the mild solution for the 1D Vlasov–Poisson initial-boundary value problem. *SIAM Journal on Mathematical Analysis*, 37(1):156–188, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43464>. **Bostan:2005:EUM**
- [BO07] Johannes F. Brasche and Kateřina Ožanová. Convergence of Schrödinger operators. *SIAM Journal on Mathematical Analysis*, 39(1):281–297, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). **Brasche:2007:CSO**
- [Bou00] Laurent Boudin. A solution with bounded expansion rate to the model of viscous pressureless gases. *SIAM Journal* **Boudin:2000:SBE**

- on *Mathematical Analysis*, 32 (1):172–193, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34684>.
- [Bou08] **Boussaid:2008:ASS**
Nabile Boussaid. On the asymptotic stability of small nonlinear Dirac standing waves in a resonant case. *SIAM Journal on Mathematical Analysis*, 40(4):1621–1670, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BP07] **Bothe:2007:TCN**
Dieter Bothe and Jan Prüss. L_p -theory for a class of non-Newtonian fluids. *SIAM Journal on Mathematical Analysis*, 39(2):379–421, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BPR00a] **Barnard:2000:IIG**
Roger W. Barnard, Kent Pearce, and Kendall C. Richards. An inequality involving the generalized hypergeometric function and the arc length of an ellipse. *SIAM Journal on Mathematical Analysis*, 31(3):693–699, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34157>.
- [BPR00b] **Barnard:2000:MPI**
Roger W. Barnard, Kent Pearce, and Kendall C. Richards. A monotonicity property involving ${}_3F_2$ and comparisons of the classical approximations of elliptical arc length. *SIAM Journal on Mathematical Analysis*, 32(2):403–419, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35050>.
- [BPBW05] **Beardmore:2005:BPS**
R. E. Beardmore, M. A. Peletier, C. J. Budd, and M. Ahmer Wadee. Bifurcations of periodic solutions satisfying the zero-hamiltonian constraint in reversible differential equations. *SIAM Journal on Mathematical Analysis*, 36(5):1461–1488, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41863>.
- [BR03] **Bagnerini:2003:MHH**
P. Bagnerini and M. Rascle. A multiclass homogenized hyperbolic model of traffic flow. *SIAM Journal on Mathematical Analysis*, 35(4):949–973, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41149>.

- [BR06] **Berselli:2006:EUW**
Luigi C. Berselli and Marco Romito. On the existence and uniqueness of weak solutions for a vorticity seeding model. *SIAM Journal on Mathematical Analysis*, 37(6):1780–1799, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Bra05] **Brandolese:2005:ARH**
Lorenzo Brandolese. Application of the realization of homogeneous Sobolev spaces to Navier–Stokes. *SIAM Journal on Mathematical Analysis*, 37(2):673–683, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44440>.
- [Bri03] **Briane:2003:HHC**
Marc Briane. Homogenization of high-conductivity periodic problems: Application to a general distribution of one-directional fibers. *SIAM Journal on Mathematical Analysis*, 35(1):33–60, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39866>.
- [Brü01] **Bruhl:2001:ECI**
Martin Brühl. Explicit characterization of inclusions in electrical impedance tomography. *SIAM Journal on Mathematical Analysis*, 32(6):1327–1341, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36656>.
- [BS00a] **Barles:2000:LTB**
G. Barles and Panagiotis E. Souganidis. On the large time behavior of solutions of Hamilton–Jacobi equations. *SIAM Journal on Mathematical Analysis*, 31(4):925–939, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35086>.
- [BS00b] **Bertozzi:2000:EUT**
A. L. Bertozzi and M. Shearer. Existence of undercompressive traveling waves in thin film equations. *SIAM Journal on Mathematical Analysis*, 32(1):194–213, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35089>.
- [BS01] **Barles:2001:STP**
G. Barles and P. E. Souganidis. Space-time periodic solutions and long-time behavior of solutions to quasi-linear parabolic equations. *SIAM Journal on Mathematical Analysis*, 32(6):1311–1323, 2001. CODEN SJMAAH.

ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36934>.

Buttazzo:2005:MOP

- [BS05] Giuseppe Buttazzo and Filippo Santambrogio. A model for the optimal planning of an urban area. *SIAM Journal on Mathematical Analysis*, 37(2):514–530, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43831>.

Barrionuevo:2008:SSC

- [BS08] José A. Barrionuevo and Jacques A. L. Silva. Stability and synchronism of certain coupled dynamical systems. *SIAM Journal on Mathematical Analysis*, 40(3):939–951, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Byatt-Smith:2003:FEP

- [BSB03] J. G. B. Byatt-Smith and H. W. Braden. Functional equations and Poincaré invariant mechanical systems. *SIAM Journal on Mathematical Analysis*, 34(3):736–758, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39374>.

Buffoni:2005:MMQ

- [BST05] B. Buffoni, É. Séré, and J. F. Toland. Minimization methods for quasi-linear problems with an application to periodic water waves. *SIAM Journal on Mathematical Analysis*, 36(4):1080–1094, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43276>.

Bal:2007:ISP

- [BT07] Guillaume Bal and Alexandru Tamasan. Inverse source problems in transport equations. *SIAM Journal on Mathematical Analysis*, 39(1):57–76, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Biro:2000:AFB

- [BV00a] Zs. Biro and J. J. L. Velazquez. Analysis of a free boundary problem arising in bubble dynamics. *SIAM Journal on Mathematical Analysis*, 32(1):142–171, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35168>.

Bonnetier:2000:ERR

- [BV00b] Eric Bonnetier and Michael Vogelius. An elliptic regularity result for a composite medium with “touching”

fibers of circular cross-section. *SIAM Journal on Mathematical Analysis*, 31(3):651–677, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/33398>.

Bucur:2002:DAB

- [BV02] Dorin Bucur and Nicolas Varchon. A duality approach for the boundary variation of Neumann problems. *SIAM Journal on Mathematical Analysis*, 34(2):460–477, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38957>.

Berthelin:2005:KEM

- [BV05] F. Berthelin and A. Vasseur. From kinetic equations to multidimensional isentropic gas dynamics before shocks. *SIAM Journal on Mathematical Analysis*, 36(6):1807–1835, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43155>.

Belishev:2008:RUS

- [BV08] Mikhail I. Belishev and Alexsei F. Vakulenko. Reachable and unreachable sets in the scattering problem for the acoustical equation in \mathbf{R}^3 . *SIAM Journal on Mathematical Analysis*, 39(6):1821–1850,

???? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Bonder:2004:ULS

- [BW04] J. Fernández Bonder and N. Wolanski. Uniqueness of limit solutions to a free boundary problem from combustion. *SIAM Journal on Mathematical Analysis*, 36(1):172–185, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41293>.

Beardmore:2008:NFQ

- [BW08] R. Beardmore and K. Webster. Normal forms, quasi-invariant manifolds, and bifurcations of nonlinear difference-algebraic equations. *SIAM Journal on Mathematical Analysis*, 40(1):413–441, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Bojanov:2005:RPR

- [BX05] Borislav Bojanov and Yuan Xu. Reconstruction of a polynomial from its Radon projections. *SIAM Journal on Mathematical Analysis*, 37(1):238–250, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61651>.

- [BX09] **Bayraktar:2009:AOE**
 Erhan Bayraktar and Hao Xing. Analysis of the optimal exercise boundary of American options for jump diffusions. *SIAM Journal on Mathematical Analysis*, 41(2):825–860, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [BY04] **Bressan:2004:SDE**
 Alberto Bressan and Tong Yang. A sharp decay estimate for positive nonlinear waves. *SIAM Journal on Mathematical Analysis*, 36(2):659–677, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42777>.
- [CA00] **Crespo:2000:GBC**
 J. A. Aguilar Crespo and I. Peral Alonso. Global behavior of the Cauchy problem for some critical nonlinear parabolic equations. *SIAM Journal on Mathematical Analysis*, 31(6):1270–1294, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34113>.
- [Can01] **Candes:2001:RRM**
 Emmanuel J. Candes. Ridgelets and the representation of mutilated Sobolev functions. *SIAM Journal on Mathematical Analysis*, 33(2):347–368, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36364>.
- [Car03] **Carles:2003:NSE**
 Rémi Carles. Nonlinear Schrödinger equations with repulsive harmonic potential and applications. *SIAM Journal on Mathematical Analysis*, 35(4):823–843, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41693>.
- [Cas03] **Casella:2003:EWS**
 E. Casella. On the existence of a weak solution to a two-dimensional free-boundary problem with a nonlinear flux condition. *SIAM Journal on Mathematical Analysis*, 35(2):376–388, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41041>.
- [CC07] **Chen:2007:MAO**
 Xinfu Chen and John Chadam. A mathematical analysis of the optimal exercise boundary for American put options. *SIAM Journal on Mathematical Analysis*, 38(5):1613–1641, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- [CCCS06] **Cheng:2006:AIF**
Lan Cheng, Xinfu Chen, John Chadam, and David Saunders. Analysis of an inverse first passage problem from risk management. *SIAM Journal on Mathematical Analysis*, 38(3):845–873, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CCD02] **Caceres:2002:NSC**
María J. Cáceres, José A. Carrillo, and Jean Dolbeault. Nonlinear stability in L^p for a confined system of charged particles. *SIAM Journal on Mathematical Analysis*, 34(2):478–494, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39843>.
- [CCG05] **Cances:2005:MAN**
Eric Cancès, Isabelle Catto, and Yousra Gati. Mathematical analysis of a nonlinear parabolic equation arising in the modelling of non-Newtonian flows. *SIAM Journal on Mathematical Analysis*, 37(1):60–82, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43004>.
- [CCK07] **Caraballo:2007:SSR**
Tomás Caraballo, Igor D. Chueshov, and Peter E. Kloeden. Synchronization of a stochastic reaction-diffusion system on a thin two-layer domain. *SIAM Journal on Mathematical Analysis*, 38(5):1489–1507, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CCM07] **Cannone:2007:LEI**
Marco Cannone, Qionglei Chen, and Changxing Miao. A losing estimate for the ideal MHD equations with application to blow-up criterion. *SIAM Journal on Mathematical Analysis*, 38(6):1847–1859, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CCP07] **Comech:2007:NIC**
Andrew Comech, Scipio Cuccagna, and Dmitry E. Pelinovsky. Nonlinear instability of a critical traveling wave in the generalized Korteweg–de Vries equation. *SIAM Journal on Mathematical Analysis*, 39(1):1–33, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CCS07] **Cheng:2007:NSE**
C. H. Arthur Cheng, Daniel Coutand, and Steve Shkoller. Navier–Stokes equations interacting with a nonlinear elastic biofluid shell. *SIAM Journal on Mathematical Analysis*, 39(3):742–800, 2007. CODEN SJMAAH. ISSN 0036-

- 1410 (print), 1095-7154 (electronic).
- [CD01] **Chen:2001:SES**
 Gui-Qiang Chen and Emanuele DiBenedetto. Stability of entropy solutions to the Cauchy problem for a class of nonlinear hyperbolic-parabolic equations. *SIAM Journal on Mathematical Analysis*, 33(4):751–762, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36359>.
- [CD08] **Chou:2008:EHD**
 Kai-Seng Chou and Shi-Zhong Du. Estimates on the Hausdorff dimension of the rupture set of a thin film. *SIAM Journal on Mathematical Analysis*, 40(2):790–823, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CDD03] **Cohen:2003:SEC**
 Albert Cohen, Wolfgang Dahmen, and Ronald Devore. Sparse evaluation of compositions of functions using multi-scale expansions. *SIAM Journal on Mathematical Analysis*, 35(2):279–303, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41207>.
- [CDD06] **Cioranescu:2006:HQI**
 Doina Cioranescu, Alain Damlamian, and Riccardo De Arcangelis. Homogenization of quasiconvex integrals via the periodic unfolding method. *SIAM Journal on Mathematical Analysis*, 37(5):1435–1453, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CDG08] **Cioranescu:2008:PUM**
 D. Cioranescu, A. Damlamian, and G. Griso. The periodic unfolding method in homogenization. *SIAM Journal on Mathematical Analysis*, 40(4):1585–1620, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CDJ08] **Champion:2008:WDL**
 Thierry Champion, Luigi De Pascale, and Petri Juutinen. The ∞ -Wasserstein distance: Local solutions and existence of optimal transport maps. *SIAM Journal on Mathematical Analysis*, 40(1):1–20, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CDM08] **Coville:2008:EUS**
 Jérôme Coville, Juan Dávila, and Salomé Martínez. Existence and uniqueness of solutions to a nonlocal equation with monostable nonlinearity. *SIAM Journal on Mathematical Analysis*, 39(5):1693–1709,

- ???? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CdMGK09] Lincoln Chayes, María del Mar González, Maria Pia Gualdani, and Inwon Kim. Global existence and uniqueness of solutions to a model of price formation. *SIAM Journal on Mathematical Analysis*, 41(5):2107–2135, ??? 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CEGMM09] **Cortazar:2009:EAB**
Carmen Cortázar, Manuel Elgueta, Jorge García-Melián, and Salomé Martínez. Existence and asymptotic behavior of solutions to some inhomogeneous nonlocal diffusion problems. *SIAM Journal on Mathematical Analysis*, 41(5):2136–2164, ??? 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CF00] **Chen:2000:FBP**
Xinfu Chen and Avner Friedman. A free boundary problem arising in a model of wound healing. *SIAM Journal on Mathematical Analysis*, 32(4):778–800, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35169>.
- [CF01] **Cordoba:2001:PCS**
Diego Cordoba and Charles Fefferman. Potato chip singularities of 3D flows. *SIAM Journal on Mathematical Analysis*, 33(4):786–789, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38499>.
- [CF03] **Chen:2003:FBP**
Xinfu Chen and Avner Friedman. A free boundary problem for an elliptic-hyperbolic
- [CDY04] **Costabel:2004:QDF**
Martin Costabel, Monique Dauge, and Zohar Yosibash. A quasi-dual function method for extracting edge stress intensity functions. *SIAM Journal on Mathematical Analysis*, 35(5):1177–1202, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40486>.
- [CE07] **Cui:2007:BAE**
Shangbin Cui and Joachim Escher. Bifurcation analysis of an elliptic free boundary problem modelling the growth of avascular tumors. *SIAM Journal on Mathematical Analysis*, 39(1):210–235, ??? 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- system: An application to tumor growth. *SIAM Journal on Mathematical Analysis*, 35(4):974–986, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41838>. [CFG06]
- [CF06a] Andrea Cianchi and Adele Ferone. On symmetric functionals of the gradient having symmetric equidistributed minimizers. *SIAM Journal on Mathematical Analysis*, 38(1):279–308, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). **Cianchi:2006:SFG**
- [CF06b] Michael Cullen and Mikhail Feldman. Lagrangian solutions of semigeostrophic equations in physical space. *SIAM Journal on Mathematical Analysis*, 37(5):1371–1395, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). **Cullen:2006:LSS**
- [CFdIL04] Diego Córdoba, Charles Fefferman, and Rafael de la Llave. On squirt singularities in hydrodynamics. *SIAM Journal on Mathematical Analysis*, 36(1):204–213, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42409>. **Cordoba:2004:SSH** [CG00]
- Xinfu Chen, Sheng-Chen Fu, and Jong-Shenq Guo. Uniqueness and asymptotics of traveling waves of monostable dynamics on lattices. *SIAM Journal on Mathematical Analysis*, 38(1):233–258, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). **Chen:2006:UAT**
- [CFTV03] J.-G. Caputo, N. Flytzanis, A. Tersenov, and E. Vavalis. Analysis of a semilinear PDE for modeling static solutions of Josephson junctions. *SIAM Journal on Mathematical Analysis*, 34(6):1356–1379, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/30367>. **Caputo:2003:ASP**
- [Chuaqui:2000:CPS] Martin Chuaqui and Julian Gevirtz. Constant principal strain mappings on 2-manifolds. *SIAM Journal on Mathematical Analysis*, 32(4):734–759, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35253>. **Chuaqui:2000:CPS**

- [CG08] **Colombo:2008:CPS**
 Rinaldo M. Colombo and Mauro Garavello. On the Cauchy problem for the p -system at a junction. *SIAM Journal on Mathematical Analysis*, 39(5):1456–1471, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CGL04] **Chen:2004:ANS**
 Louis H. Y. Chen, Tim N. T. Goodman, and S. L. Lee. Asymptotic normality of scaling functions. *SIAM Journal on Mathematical Analysis*, 36(1):323–346, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40622>.
- [CGL05] **Colin:2005:IMN**
 Thierry Colin, Gérard Gallice, and Karen Lauriou. Intermediate models in nonlinear optics. *SIAM Journal on Mathematical Analysis*, 36(5):1664–1688, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42306>.
- [CGL08] **Carlen:2008:DSG**
 Eric A. Carlen, Jeffrey S. Geronimo, and Michael Loss. Determination of the spectral gap in the Kac model for physical momentum and energy-conserving collisions. *SIAM Journal on Mathematical Analysis*, 40(1):327–364, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CGLL02] **Calderer:2002:TEN**
 M. C. Calderer, D. Golovaty, F.-H. Lin, and C. Liu. Time evolution of nematic liquid crystals with variable degree of orientation. *SIAM Journal on Mathematical Analysis*, 33(5):1033–1047, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36208>.
- [CGNT08] **Chang:2008:SLO**
 Shu-Ming Chang, Stephen Gustafson, Kenji Nakanishi, and Tai-Peng Tsai. Spectra of linearized operators for NLS solitary waves. *SIAM Journal on Mathematical Analysis*, 39(4):1070–1111, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CGP05] **Coclite:2005:TFR**
 G. M. Coclite, M. Garavello, and B. Piccoli. Traffic flow on a road network. *SIAM Journal on Mathematical Analysis*, 36(6):1862–1886, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36208>.

[//epubs.siam.org/sam-bin/dbq/article/40268](http://epubs.siam.org/sam-bin/dbq/article/40268).

Chen:2009:IAQ

- [CGZ09] Shuxing Chen, Jinbo Geng, and Yongqian Zhang. Isentropic approximation of quasi-one-dimensional unsteady nozzle flow. *SIAM Journal on Mathematical Analysis*, 41(4): 1693–1712, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Chae:2006:NLF

- [CH06] Myeongju Chae and Seung-Yeal Ha. New Lyapunov functionals of the Vlasov–Poisson system. *SIAM Journal on Mathematical Analysis*, 37(6): 1709–1731, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Chae:2006:RCD

- [Cha06] Dongho Chae. On the regularity conditions for the dissipative quasi-geostrophic equations. *SIAM Journal on Mathematical Analysis*, 37(5):1649–1656, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Chen:2000:STW

- [Che00] Di-Rong Chen. On the splitting trick and wavelet frame packets. *SIAM Journal on Mathematical Analysis*, 31(4): 726–739, 2000. CODEN SJMAAH. ISSN 0036-1410

(print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/32333>.

Coclite:2005:GWS

- [CHK05] G. M. Coclite, H. Holden, and K. H. Karlsen. Global weak solutions to a generalized hyperelastic-rod wave equation. *SIAM Journal on Mathematical Analysis*, 37(4): 1044–1069, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61671>.

Cox:2008:CGM

- [CHK08] Dennis D. Cox, Robert M. Hardt, and Petr Klouček. Convergence of Gibbs measures associated with simulated annealing. *SIAM Journal on Mathematical Analysis*, 39(5): 1472–1496, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Colombo:2008:CLJ

- [CHS08] R. M. Colombo, M. Herty, and V. Sachers. On 2×2 conservation laws at a junction. *SIAM Journal on Mathematical Analysis*, 40(2):605–622, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Chen:2004:AMP

- [CJ04] Li Chen and Ansgar Jüngel. Analysis of a multidimensional

- parabolic population model with strong cross-diffusion. *SIAM Journal on Mathematical Analysis*, 36(1):301–322, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42779>. [CKK06]
- Ciuperca:2009:ESE**
- [CJT09] I. Ciuperca, M. Jai, and J. I. Tello. On the existence of solutions of equilibria in lubricated journal bearings. *SIAM Journal on Mathematical Analysis*, 40(6):2316–2327, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Canuto:2001:DCC**
- [CK01a] B. Canuto and O. Kavian. Determining coefficients in a class of heat equations via boundary measurements. *SIAM Journal on Mathematical Analysis*, 32(5):963–986, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36525>.
- Chen:2001:DIS**
- [CK01b] Xinfu Chen and Michał Kowalczyk. Dynamics of an interior spike in the Gierer–Meinhardt system. *SIAM Journal on Mathematical Analysis*, 33(1):172–193, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36495>.
- Canic:2006:FBP**
- Suncica Canic, Barbara Lee Keyfitz, and Eun Heui Kim. Free boundary problems for nonlinear wave systems: Mach stems for interacting shocks. *SIAM Journal on Mathematical Analysis*, 37(6):1947–1977, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Colliander:2001:GWP**
- [CKS+01] J. Colliander, M. Keel, G. Staffilani, H. Takaoka, and T. Tao. Global well-posedness for Schrödinger equations with derivative. *SIAM Journal on Mathematical Analysis*, 33(3):649–669, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38438>.
- Colliander:2002:RGW**
- [CKS+02] J. Colliander, M. Keel, G. Staffilani, H. Takaoka, and T. Tao. A refined global well-posedness result for Schrödinger equations with derivative. *SIAM Journal on Mathematical Analysis*, 34(1):64–86, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39454>.

- [CL00] **Chicone:2000:CIT** Carmen Chicone and Weishi Liu. On the continuation of an invariant torus in a family with rapid oscillations. *SIAM Journal on Mathematical Analysis*, 31(2):386–415, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/33874>.
- [CL03] **Chen:2003:FSV** Gui-Qiang Chen and Hailiang Liu. Formation of δ -shocks and vacuum states in the vanishing pressure limit of solutions to the Euler equations for isentropic fluids. *SIAM Journal on Mathematical Analysis*, 34(4):925–938, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39935>.
- [CL04] **Corbera:2004:FPO** Montserrat Corbera and Jaume Llibre. Families of periodic orbits for the spatial isosceles 3-body problem. *SIAM Journal on Mathematical Analysis*, 35(5):1311–1346, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40788>.
- [CL05] **Cermelli:2005:REF** Paolo Cermelli and Giovanni Leoni. Renormalized energy and forces on dislocations. *SIAM Journal on Mathematical Analysis*, 37(4):1131–1160, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/62163>.
- [CL09] **Colin:2009:SPA** Mathieu Colin and David Lannes. Short pulses approximations in dispersive media. *SIAM Journal on Mathematical Analysis*, 41(2):708–732, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Cla00] **Clarkson:2000:ACM** Eric Clarkson. Angular channels in a multidimensional wavelet transform. *SIAM Journal on Mathematical Analysis*, 32(1):80–102, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/30961>.
- [CLGZ06] **Chen:2006:ASN** Wu-Hua Chen, Xiaomei Lu, Zhi-Hong Guan, and Wei Xing Zheng. Asymptotic stability in a neutral delay differential system with variable delays. *SIAM Journal on Mathematical Analysis*, 37(5):1522–1534, January 2006. CODEN

- SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). **Chemin:2001:ALR**
- [CM01] **Comte:2002:FDH**
- [CLR02] M. Comte and T. Lachand-Robert. Functions and domains having minimal resistance under a single-impact assumption. *SIAM Journal on Mathematical Analysis*, 34(1):101–120, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38884>. See comment [Pla09b]. [CM02]
- [CM98] **Cox:1998:STC**
- Steven J. Cox and C. Maevé McCarthy. The shape of the tallest column. *SIAM Journal on Mathematical Analysis*, 29(3):547–554, May 1998. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/31453>. See correction [CM00]. [CM06]
- [CM00] **Cox:2000:STC**
- Steven J. Cox and C. Maevé McCarthy. The shape of the tallest column: Corrected. *SIAM Journal on Mathematical Analysis*, 31(4):940, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35495>. See [CM98]. [CMJ09]
- Jean-Yves Chemin and Nader Masmoudi. About lifespan of regular solutions of equations related to viscoelastic fluids. *SIAM Journal on Mathematical Analysis*, 33(1):84–112, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35931>. **Carstensen:2002:LSR**
- Carsten Carstensen and Stefan Müller. Local stress regularity in scalar nonconvex variational problems. *SIAM Journal on Mathematical Analysis*, 34(2):495–509, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39643>. **Chaudhuri:2006:SET**
- Nirmalendu Chaudhuri and Stefan Müller. Scaling of the energy for thin Martensitic films. *SIAM Journal on Mathematical Analysis*, 38(2):468–477, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). **Costanzino:2009:SWR**
- Nicola Costanzino, Vahagn Manukian, and Christopher K. R. T. Jones. Solitary waves of the regularized short pulse and Ostrovsky equations.

- [CN00] *SIAM Journal on Mathematical Analysis*, 41(5):2088–2106, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CMM06] Sergio Conti, Francesco Maggi, and Stefan Müller. Rigorous derivation of Föppl’s theory for clamped elastic membranes leads to relaxation. *SIAM Journal on Mathematical Analysis*, 38(2):657–680, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CMS04] Giovanna Citti, Maria Manfredini, and Alessandro Sarti. Neuronal oscillations in the visual cortex: Γ -convergence to the Riemannian Mumford–Shah functional. *SIAM Journal on Mathematical Analysis*, 35(6):1394–1419, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39867>.
- [CMZ08] Qionglei Chen, Changxing Miao, and Zhifei Zhang. On the well-posedness for the viscous shallow water equations. *SIAM Journal on Mathematical Analysis*, 40(2):443–474, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Craig:2000:TTT] Walter Craig and David P. Nicholls. Traveling two and three dimensional capillary gravity water waves. *SIAM Journal on Mathematical Analysis*, 32(2):323–359, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35418>.
- [Castro:2001:LIP] Alfonso Castro and J. W. Neuberger. A local inversion principle of the Nash–Moser type. *SIAM Journal on Mathematical Analysis*, 33(4):989–993, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35769>.
- [Chambolle:2006:CAA] Antonin Chambolle and Matteo Novaga. Convergence of an algorithm for the anisotropic and crystalline mean curvature flow. *SIAM Journal on Mathematical Analysis*, 37(6):1978–1987, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Conti:2006:CRC] Sergio Conti, Barbara Niethammer, and Felix Otto. Coarsening rates in off-critical mixtures. *SIAM Journal on Mathematical Analysis*, 37(6):

- 1732–1741, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CO05] **Chen:2005:PUG**
Xinfu Chen and Yoshihito Oshita. Periodicity and uniqueness of global minimizers of an energy functional containing a long-range interaction. *SIAM Journal on Mathematical Analysis*, 37(4):1299–1332, January 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CO06] **Cho:2006:SHT**
Yonggeun Cho and Tohru Ozawa. On the semirelativistic Hartree-type equation. *SIAM Journal on Mathematical Analysis*, 38(4):1060–1074, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Coo00] **Cooper:2000:PRW**
Jeffery Cooper. Parametric resonance in wave equations with a time-periodic potential. *SIAM Journal on Mathematical Analysis*, 31(4):821–835, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34070>.
- [Cou02] **Coulombel:2002:WSN**
Jean-François Coulombel. Weak stability of nonuniformly stable multidimensional shocks. *SIAM Journal on Mathematical Analysis*, 34(1):142–172, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39280>.
- [COV02] **Conca:2002:BAH**
Carlos Conca, Rafael Orive, and Muthusamy Vanninathan. Bloch approximation in homogenization and applications. *SIAM Journal on Mathematical Analysis*, 33(5):1166–1198, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38220>.
- [Coz09] **Cozzi:2009:VVP**
Elaine Cozzi. Vanishing viscosity in the plane for non-decaying velocity and vorticity. *SIAM Journal on Mathematical Analysis*, 41(2):495–510, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CP00] **Cohen:2000:OAT**
Albert Cohen and Benoit Perthame. Optimal approximations of transport equations by particle and pseudoparticle methods. *SIAM Journal on Mathematical Analysis*, 32(3):616–636, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34070>.

- org/sam-bin/dbq/article/35035.
- [CP07a] **Calderer:2007:YMO**
 Maria-Carme Calderer and Alexander Panchenko. Young measures and order-disorder transition in stationary flow of liquid crystals. *SIAM Journal on Mathematical Analysis*, 38(5):1642–1659, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CP07b] **Celada:2007:CNB**
 P. Celada and S. Perrotta. On a class of nonconvex Bolza problems related to Blatz–Ko elastic materials. *SIAM Journal on Mathematical Analysis*, 39(3):838–862, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CQ07] **Chen:2007:SEM**
 Xinfu Chen and Yuanwei Qi. Sharp estimates on minimum travelling wave speed of reaction diffusion systems modelling autocatalysis. *SIAM Journal on Mathematical Analysis*, 39(2):437–448, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [CQW03] **Chen:2003:LTB**
 Xinfu Chen, Y. W. Qi, and Mingxin Wang. Long time behavior of solutions to P -Laplacian equation with absorption. *SIAM Journal on Mathematical Analysis*, 35(1):123–134, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40772>.
- [CR03] **Chen:2003:MPA**
 Yunmei Chen and Murali Rao. Minimization problems and associated flows related to weighted p energy and total variation. *SIAM Journal on Mathematical Analysis*, 34(5):1084–1104, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40457>.
- [CR05] **Coclite:2005:CLT**
 Giuseppe Maria Coclite and Nils Henrik Risebro. Conservation laws with time dependent discontinuous coefficients. *SIAM Journal on Mathematical Analysis*, 36(4):1293–1309, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42000>.
- [CR06] **Cardaliaguet:2006:VSI**
 Pierre Cardaliaguet and Elisabeth Rouy. Viscosity solutions of increasing flows of sets. application of the Hele–Shaw problem for power-law fluids. *SIAM Journal on Mathematical Analysis*, 38(1):143–165, January 2006. CODEN

SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Crepey:2003:CLV

[Cré03]

S. Crépey. Calibration of the local volatility in a generalized Black–Scholes model using Tikhonov regularization. *SIAM Journal on Mathematical Analysis*, 34(5):1183–1206, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40020>.

Chen:2005:PRS

[CRTW05]

Yunmei Chen, M. Rao, Y. Tonegawa, and T. Wunderli. Partial regularity for a selective smoothing functional for image restoration in BV space. *SIAM Journal on Mathematical Analysis*, 37(4):1098–1116, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/62388>.

Cuesta:2006:WSO

[CS06]

C. M. Cuesta and C. Schmeiser. Weak shocks for a one-dimensional BGK kinetic model for conservation laws. *SIAM Journal on Mathematical Analysis*, 38(2):637–656, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Chambolle:2007:IBS

[CS07]

Antonin Chambolle and Margherita Solci. Interaction of a bulk and a surface energy with a geometrical constraint. *SIAM Journal on Mathematical Analysis*, 39(1):77–102, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Cheng:2008:LTE

[CT08]

Bin Cheng and Eitan Tadmor. Long-time existence of smooth solutions for the rapidly rotating shallow-water and Euler equations. *SIAM Journal on Mathematical Analysis*, 39(5):1668–1685, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Cuccagna:2009:ASS

[CT09]

Scipio Cuccagna and Mirko Tarulli. On asymptotic stability of standing waves of discrete Schrödinger equation in \mathbf{Z} . *SIAM Journal on Mathematical Analysis*, 41(3):861–885, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Cui:2008:ASS

[Cui08]

Shangbin Cui. Asymptotic stability of the stationary solution for a hyperbolic free boundary problem modeling tumor growth. *SIAM Journal on Mathematical Analysis*, 40(4):1692–1724, 2008. CO-

DEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Cazenave:2000:STS

- [CW00] Thierry Cazenave and Fred B. Weissler. Scattering theory and self-similar solutions for the nonlinear Schrödinger equation. *SIAM Journal on Mathematical Analysis*, 31(3):625–650, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35130>.

Chandler-Wilde:2005:EUV

- [CWM05] Simon N. Chandler-Wilde and Peter Monk. Existence, uniqueness, and variational methods for scattering by unbounded rough surfaces. *SIAM Journal on Mathematical Analysis*, 37(2):598–618, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61552>.

Chandler-Wilde:2008:WNE

- [CWM08] Simon N. Chandler-Wilde and Peter Monk. Wave-number-explicit bounds in time-harmonic scattering. *SIAM Journal on Mathematical Analysis*, 39(5):1428–1455, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Chen:2009:EDF

- [CWY09] Gui-Qiang Chen, Dehua Wang, and Xiaozhou Yang. Evolution of discontinuity and formation of triple-shock pattern in solutions to a two-dimensional hyperbolic system of conservation laws. *SIAM Journal on Mathematical Analysis*, 41(1):1–25, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Cheng:2004:DTC

- [CY04] Jin Cheng and Masahiro Yamamoto. Determination of two convection coefficients from Dirichlet to Neumann map in the two-dimensional case. *SIAM Journal on Mathematical Analysis*, 35(6):1371–1393, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42249>.

Chen:2007:SCV

- [CZZ07] Gui-Qiang Chen, Yongqian Zhang, and Dianwen Zhu. Stability of compressible vortex sheets in steady supersonic Euler flows over Lipschitz walls. *SIAM Journal on Mathematical Analysis*, 38(5):1660–1693, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Dalibard:2007:KFP

- [Dal07] Anne-Laure Dalibard. Kinetic formulation for a parabolic

- conservation law. application to homogenization. *SIAM Journal on Mathematical Analysis*, 39(3):891–915, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [DDGM07]
- [Dal09] Anne-Laure Dalibard. Asymptotic behavior of a rapidly rotating fluid with random stationary surface stress. *SIAM Journal on Mathematical Analysis*, 41(2):511–563, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). **Dalibard:2009:ABR**
- [DD02a] E. N. Dancer and Yihong Du. Effects of certain degeneracies in the predator-prey model. *SIAM Journal on Mathematical Analysis*, 34(2):292–314, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38759>. **Dancer:2002:ECD**
- [DD02b] Shijin Ding and Qiang Du. Critical magnetic field and asymptotic behavior of superconducting thin films. *SIAM Journal on Mathematical Analysis*, 34(1):239–256, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37861>. **Ding:2002:CMF**
- [DdlL00] Amadeu Delshams and Rafael de la Llave. KAM theory and a partial justification of Greene’s criterion for nontwist maps. *SIAM Journal on Mathematical Analysis*, 31(6):1235–1269, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34908>. **Delshams:2000:KTP**
- [DDT04] A. De Bouard, A. Debussche, and Y. Tsutsumi. Periodic solutions of the Korteweg–de Vries equation driven by white noise. *SIAM Journal on Mathematical Analysis*, 36(3):815–855, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42530>. **DeBouard:2004:PSK**
- [DE00] R. G. Docksey and J. N. Elgin. Closure of the Manakov system. *SIAM Journal on Math-* **Docksey:2000:CMS**
- [Dávila:2007:SSB] Juan Dávila, Louis Dupaigne, Ignacio Guerra, and Marcelo Montenegro. Stable solutions for the bilaplacian with exponential nonlinearity. *SIAM Journal on Mathematical Analysis*, 39(2):565–592, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

ematical Analysis, 32(1):54–79, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34367>.

Dunca:2006:SAD

- [DE06] A. Dunca and Y. Epshteyn. On the Stolz–Adams deconvolution model for the large-eddy simulation of turbulent flows. *SIAM Journal on Mathematical Analysis*, 37(6):1890–1902, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [DFG02]

Dorfman:2009:LRH

- [DE09] Jonathan Dorfman and Lawrence C. Evans. A “lakes and rivers” heuristic metaphor for the singular limit of a nonlinear diffusion PDE. *SIAM Journal on Mathematical Analysis*, 41(4):1621–1652, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [DFLM09]

Deuring:2009:SDT

- [Deu09] Paul Deuring. Spatial decay of time-dependent Oseen flows. *SIAM Journal on Mathematical Analysis*, 41(3):886–922, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [DFM09]

Desenzani:2006:CGL

- [DF06] N. Desenzani and I. Fragalà. Concentration of Ginzburg–Landau energies with super-

critical growth. *SIAM Journal on Mathematical Analysis*, 38(2):385–413, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Duffy:2002:MDI

Brian R. Duffy, Pedro Freitas, and Michael Grinfeld. Memory driven instability in a diffusion process. *SIAM Journal on Mathematical Analysis*, 33(5):1090–1106, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38859>.

DalMaso:2009:HOM

G. Dal Maso, I. Fonseca, G. Leoni, and M. Morini. A higher order model for image restoration: The one-dimensional case. *SIAM Journal on Mathematical Analysis*, 40(6):2351–2391, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Donato:2009:CHC

Patrizia Donato, Luisa Faella, and Sara Monsurrò. Correctors for the homogenization of a class of hyperbolic equations with imperfect interfaces. *SIAM Journal on Mathematical Analysis*, 40(5):1952–1978, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- [DG00] **Diaz:2000:ABN**
 Juan Casado Diaz and Adriana Garroni. Asymptotic behavior of nonlinear elliptic systems on varying domains. *SIAM Journal on Mathematical Analysis*, 31(3):581–624, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/32962>.
- [DG09] **Deckelnick:2009:SSN**
 Klaus Deckelnick and Hans-Christoph Grunau. Stability and symmetry in the Navier problem for the one-dimensional Willmore equation. *SIAM Journal on Mathematical Analysis*, 40(5):2055–2076, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [DGG00] **Duzaar:2000:PRA**
 Frank Duzaar, Andreas Gastel, and Joseph F. Grotowski. Partial regularity for almost minimizers of quasi-convex integrals. *SIAM Journal on Mathematical Analysis*, 32(3):665–687, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37453>.
- [DGG08] **Diekmann:2008:SBA**
 Odo Diekmann, Philipp Getto, and Mats Gyllenberg. Stability and bifurcation analysis of
- [DGH00] **Dobric:2000:SPC**
 V. Dobric, R. F. Gundy, and P. Hitczenko. Stability properties for a compactly supported prescale function. *SIAM Journal on Mathematical Analysis*, 31(3):574–580, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/32746>.
- [DGP04] **Dall’Aglio:2004:RPE**
 Andrea Dall’Aglio, Daniela Giachetti, and Ireneo Peral. Results on parabolic equations related to some Caffarelli–Kohn–Nirenberg inequalities. *SIAM Journal on Mathematical Analysis*, 36(3):691–716, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43235>.
- [DH08a] **Du:2008:CPNa**
 Yihong Du and Sze-Bi Hsu. Concentration phenomena in a nonlocal quasi-linear problem modelling phytoplankton I: Existence. *SIAM Journal on Mathematical Analysis*, 40(4):1419–1440, 2008. CO-
- Volterra functional equations in the light of suns and stars. *SIAM Journal on Mathematical Analysis*, 39(4):1023–1069, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- DEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [DH08b] **Du:2008:CPNb** Yihong Du and Sze-Bi Hsu. Concentration phenomena in a nonlocal quasi-linear problem modelling phytoplankton II: Limiting profile. *SIAM Journal on Mathematical Analysis*, 40(4):1441–1470, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Din03] **Ding:2003:TWS** Zhonghai Ding. Traveling waves in a suspension bridge system. *SIAM Journal on Mathematical Analysis*, 35(1):160–171, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41269>.
- [DIN04] **Doelman:2004:DFC** Arjen Doelman, David Iron, and Yasumasa Nishiura. Destabilization of fronts in a class of bistable systems. *SIAM Journal on Mathematical Analysis*, 35(6):1420–1450, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41924>.
- [DK08] **Daners:2008:UFK** Daniel Daners and James Kennedy. Uniqueness in the Faber–Krahn inequality for Robin problems. *SIAM Journal on Mathematical Analysis*, 39(4):1191–1207, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [DKP07] **Doelman:2007:NAS** Arjen Doelman, Tasso J. Kaper, and Keith Promislow. Nonlinear asymptotic stability of the semistrong pulse dynamics in a regularized Gierer–Meinhardt model. *SIAM Journal on Mathematical Analysis*, 38(6):1760–1787, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [DKS02] **Dziuk:2002:EEC** Gerhard Dziuk, Ernst Kuwert, and Reiner Schatzle. Evolution of elastic curves in \mathbf{R}^n : Existence and computation. *SIAM Journal on Mathematical Analysis*, 33(5):1228–1245, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38370>.
- [DL00] **Ding:2000:PSH** Yanheng Ding and Cheng Lee. Periodic solutions of Hamiltonian systems. *SIAM Journal on Mathematical Analysis*, 32(3):555–571, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38370>.

- org/sam-bin/dbq/article/35817.
- [DL04] **Dekel:2004:BHL**
S. Dekel and D. Leviatan. The Bramble–Hilbert lemma for convex domains. *SIAM Journal on Mathematical Analysis*, 35(5):1203–1212, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41758>.
- [DLS05] **Diaz:2005:LSS**
J. I. Díaz, M. Lazzo, and P. G. Schmidt. Large solutions for a system of elliptic equations arising from fluid dynamics. *SIAM Journal on Mathematical Analysis*, 37(2):490–513, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44355>.
- [DLY07] **Dyn:2007:AUN**
Nira Dyn, David Levin, and Jungho Yoon. Analysis of univariate nonstationary subdivision schemes with application to Gaussian-based interpolatory schemes. *SIAM Journal on Mathematical Analysis*, 39(2):470–488, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [dMKST09] **deMonvel:2009:LTA**
Anne Boutet de Monvel, Aleksey Kostenko, Dmitry Shepelsky, and Gerald Teschl. Long-time asymptotics for the Camassa–Holm equation. *SIAM Journal on Mathematical Analysis*, 41(4):1559–1588, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [DMP06] **Dapice:2006:PFT**
Ciro D’apice, Rosanna Manzo, and Benedetto Piccoli. Packet flow on telecommunication networks. *SIAM Journal on Mathematical Analysis*, 38(3):717–740, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [DMPD09] **Duncan:2009:SSE**
T. E. Duncan, B. Maslowski, and B. Pasik-Duncan. Semilinear stochastic equations in a Hilbert space with a fractional Brownian motion. *SIAM Journal on Mathematical Analysis*, 40(6):2286–2315, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [DN09] **Dette:2009:SAP**
Holger Dette and Jan Nagel. Some asymptotic properties of the spectrum of the Jacobi ensemble. *SIAM Journal on Mathematical Analysis*, 41(4):1491–1507, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- [DO09] **Dirr:2009:SIL**
Nicolas Dirr and Enza Orlandi. Sharp-interface limit of a Ginzburg–Landau functional with a random external field. *SIAM Journal on Mathematical Analysis*, 41(2): 781–824, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Don00] **Donoho:2000:ORL**
David L. Donoho. Orthonormal ridgelets and linear singularities. *SIAM Journal on Mathematical Analysis*, 31(5): 1062–1099, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34440>.
- [DP03] **Davydov:2003:NAD**
Oleg Davydov and Pencho Petrushev. Nonlinear approximation from differentiable piecewise polynomials. *SIAM Journal on Mathematical Analysis*, 35(3):708–758, January 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [DP05] **Dai:2005:UBC**
Shibin Dai and Robert L. Pego. Universal bounds on coarsening rates for mean-field models of phase transitions. *SIAM Journal on Mathematical Analysis*, 37(2):347–371, 2005. CODEN SJMAAH.
- [DP09] **Dafermos:2009:GSS**
Constantine M. Dafermos and Ronghua Pan. Global BV solutions for the P -system with frictional damping. *SIAM Journal on Mathematical Analysis*, 41(3):1190–1205, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [dPKW07] **delPino:2007:RIL**
Manuel del Pino, Micha Kowalczyk, and Juncheng Wei. Resonance and interior layers in an inhomogeneous phase transition model. *SIAM Journal on Mathematical Analysis*, 38(5):1542–1564, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [DPR09] **Dohnal:2009:LML**
Tomáš Dohnal, Michael Plum, and Wolfgang Reichel. Localized modes of the linear periodic Schrödinger operator with a nonlocal perturbation. *SIAM Journal on Mathematical Analysis*, 41(5):1967–1993, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [DRY07] **Dancer:2007:MRS**
Edward Norman Dancer, Xiaofeng Ren, and Shusen
- ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61804>.

- Yan. On multiple radial solutions of a singularly perturbed nonlinear elliptic system. *SIAM Journal on Mathematical Analysis*, 38(6):2005–2041, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [DS05] Nicolas Dirr and Panagiotis E. Souganidis. Large-time behavior for viscous and non-viscous Hamilton–Jacobi equations forced by additive noise. *SIAM Journal on Mathematical Analysis*, 37(3):777–796, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61189>.
- [DS06] Andrea Davini and Antonio Siconolfi. A generalized dynamical approach to the large time behavior of solutions of Hamilton–Jacobi equations. *SIAM Journal on Mathematical Analysis*, 38(2):478–502, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [DS08] Sara Daneri and Giuseppe Savaré. Eulerian calculus for the displacement convexity in the Wasserstein distance. *SIAM Journal on Mathematical Analysis*, 40(3):1104–1122, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [DS09] Wolf-Patrick Düll and Guido Schneider. A waiting time phenomenon in pattern forming systems. *SIAM Journal on Mathematical Analysis*, 41(1):415–433, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Du00] Yihong Du. Exact multiplicity and S-shaped bifurcation curve for some semilinear elliptic problems from combustion theory. *SIAM Journal on Mathematical Analysis*, 32(4):707–733, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34358>.
- [Dum03] Éric Dumas. An example of catastrophic self-focusing in nonlinear optics? *SIAM Journal on Mathematical Analysis*, 35(1):268–278, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41448>.
- [Dun00] Le Dung. Coexistence with chemotaxis. *SIAM Journal on Mathematical Analysis*, 32

- (3):504–521, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34677>.
- [Dun01] **Dunster:2001:UAE**
T. M. Dunster. Uniform asymptotic expansions for the reverse generalized Bessel polynomials, and related functions. *SIAM Journal on Mathematical Analysis*, 32(5):987–1013, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35906>.
- [dVGH03] **deVilliers:2003:DDS**
J. M. de Villiers, K. M. Goosen, and B. M. Herbst. Dubuc–Deslauriers subdivision for finite sequences and interpolation wavelets on an interval. *SIAM Journal on Mathematical Analysis*, 35(2):423–452, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38683>.
- [DW05] **DAprile:2005:BSC**
Teresa D’Aprile and Juncheng Wei. On bound states concentrating on spheres for the Maxwell–Schrödinger equation. *SIAM Journal on Mathematical Analysis*, 37(1):321–342, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44279>.
- [DY00] **Donoho:2000:NPT**
David L. Donoho and Thomas P.-Y. Yu. Nonlinear pyramid transforms based on median-interpolation. *SIAM Journal on Mathematical Analysis*, 31(5):1030–1061, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/33029>.
- [DZ03] **Du:2003:EWS**
Qiang Du and Ping Zhang. Existence of weak solutions to some vortex density models. *SIAM Journal on Mathematical Analysis*, 34(6):1279–1299, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40800>.
- [DZ08] **Dupuis:2008:ESC**
Paul Dupuis and Jim X. Zhang. Explicit solutions for a class of nonlinear PDEs that arise in allocation problems. *SIAM Journal on Mathematical Analysis*, 39(5):1627–1667, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Ebm00] **Ebmeyer:2000:NEP**
Carsten Ebmeyer. Nonlinear elliptic problems under

- mixed boundary value conditions in nonsmooth domains. *SIAM Journal on Mathematical Analysis*, 32(1):103–118, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34986>.
- [EKK09] **Elliott:2003:DBC**
C. M. Elliott, Y. Giga, and S. Goto. Dynamic boundary conditions for Hamilton–Jacobi equations. *SIAM Journal on Mathematical Analysis*, 34(4):861–881, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39957>.
- [EGG03] **Evans:2006:BGA**
J. D. Evans, V. A. Galaktionov, and J. F. Williams. Blow-up and global asymptotics of the limit unstable Cahn–Hilliard equation. *SIAM Journal on Mathematical Analysis*, 38(1):64–102, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [EGW06] **ElSoufi:2008:efd**
Ahmad El Soufi and Rola Kivan. Extremal first Dirichlet eigenvalue of doubly connected plane domains and dihedral symmetry. *SIAM Journal on Mathematical Analysis*, 39(4):1112–1119, 2008. CO-
- DEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Eleuteri:2009:MFH**
Michela Eleuteri, Jana Kopfová, and Pavel Krejčí. Magneto-hydrodynamic flow with hysteresis. *SIAM Journal on Mathematical Analysis*, 41(2):435–464, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- ElHajj:2007:WPT**
Ahmad El Hajj. Well-posedness theory for a nonconservative Burgers-type system arising in dislocation dynamics. *SIAM Journal on Mathematical Analysis*, 39(3):965–986, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [El 07] **Eschwe:2002:TVP**
David Eschwé and Heinz Langer. Triple variational principles for eigenvalues of self-adjoint operators and operator functions. *SIAM Journal on Mathematical Analysis*, 34(1):228–238, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38774>.
- [EL02] **Eisenberg:2007:PNP**
Bob Eisenberg and Weishi Liu. Poisson–Nernst–Planck sys-

- tems for ion channels with permanent charges. *SIAM Journal on Mathematical Analysis*, 38(6):1932–1966, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [ET09]
- [EM09] Joachim Escher and Bogdan-Vasile Matioc. Existence and stability results for periodic Stokesian Hele–Shaw flows. *SIAM Journal on Mathematical Analysis*, 40(5):1992–2006, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [FC06]
- [ESG05] L. C. Evans, O. Savin, and W. Gangbo. Diffeomorphisms and nonlinear heat flows. *SIAM Journal on Mathematical Analysis*, 37(3):737–751, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61386>. [FFH02]
- [Esp05] Pierpaolo Esposito. Blowup solutions for a Liouville equation with singular data. *SIAM Journal on Mathematical Analysis*, 36(4):1310–1345, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43054>. [FG09]
- Ettinger:2009:GEU**
Boris Ettinger and Edriss S. Titi. Global existence and uniqueness of weak solutions of three-dimensional Euler equations with helical symmetry in the absence of vorticity stretching. *SIAM Journal on Mathematical Analysis*, 41(1):269–296, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Friedman:2006:ATW**
Avner Friedman and Gheorghe Craciun. Approximate traveling waves in linear reaction-hyperbolic equations. *SIAM Journal on Mathematical Analysis*, 38(3):741–758, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Fontelos:2002:MAM**
Marco A. Fontelos, Avner Friedman, and Bei Hu. Mathematical analysis of a model for the initiation of angiogenesis. *SIAM Journal on Mathematical Analysis*, 33(6):1330–1355, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38504>.
- Friesecke:2009:ELN**
Gero Friesecke and Benjamin D. Goddard. Explicit large nuclear charge limit of

- electronic ground states for Li, Be, B, C, N, O, F, Ne and basic aspects of the periodic table. *SIAM Journal on Mathematical Analysis*, 41(2):631–664, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [FH01]
- [FGHS07] **Fibich:2007:CKS**
G. Fibich, I. Gannot, A. Hammer, and S. Schochet. Chemical kinetics on surfaces: A singular limit of a reaction-diffusion system. *SIAM Journal on Mathematical Analysis*, 38(5):1371–1388, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [FGM05] **Frehse:2005:SLS**
Jens Frehse, Sonja Goj, and Josef Málek. On a Stokes-like system for mixtures of fluids. *SIAM Journal on Mathematical Analysis*, 36(4):1259–1281, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43342>.
- [FGQ04] **Feng:2004:DSL**
Shui Feng, Ilie Grigorescu, and Jeremy Quastel. Diffusive scaling limits of mutually interacting particle systems. *SIAM Journal on Mathematical Analysis*, 35(6):1512–1533, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40952>.
- [Fife:2001:NOF]
Paul C. Fife and Danielle Hilhorst. The Nishiura–Ohnishi free boundary problem in the 1D case. *SIAM Journal on Mathematical Analysis*, 33(3):589–606, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37250>.
- [Friedman:2007:BFB]
Avner Friedman and Bei Hu. Bifurcation for a free boundary problem modeling tumor growth by Stokes equation. *SIAM Journal on Mathematical Analysis*, 39(1):174–194, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [FHW02] **Faria:2002:SCM**
Teresa Faria, Wenzhang Huang, and Jianhong Wu. Smoothness of center manifolds for maps and formal adjoints for semilinear FDEs in general Banach spaces. *SIAM Journal on Mathematical Analysis*, 34(1):173–203, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38497>.

- [Fig07] **Figalli:2007:EUR**
Alessio Figalli. Existence, uniqueness, and regularity of optimal transport maps. *SIAM Journal on Mathematical Analysis*, 39(1):126–137, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Fil07] **Filho:2007:VDT**
M. C. Lopes Filho. Vortex dynamics in a two-dimensional domain with holes and the small obstacle limit. *SIAM Journal on Mathematical Analysis*, 39(2):422–436, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [FKK09] **Finkelshtein:2009:IBM**
Dmitri Finkelshtein, Yuri Kondratiev, and Oleksandr Kutoviy. Individual based model with competition in spatial ecology. *SIAM Journal on Mathematical Analysis*, 41(1):297–317, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [FKW06] **Fainsilber:2006:LPC**
Laura Fainsilber, Pär Kurlberg, and Bernt Wennberg. Lattice points on circles and discrete velocity models for the Boltzmann equation. *SIAM Journal on Mathematical Analysis*, 37(6):1903–1922, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [FL00] **Fiedler:2000:GHB**
Bernold Fiedler and Stefan Liescher. Generic Hopf bifurcation from lines of equilibria without parameters: II. systems of viscous hyperbolic balance laws. *SIAM Journal on Mathematical Analysis*, 31(6):1396–1404, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34172>.
- [FLM01] **Fitzgibbon:2001:MMS**
W. E. Fitzgibbon, M. Langlais, and J. J. Morgan. A mathematical model of the spread of feline leukemia virus (feLV) through a highly heterogeneous spatial domain. *SIAM Journal on Mathematical Analysis*, 33(3):570–588, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37175>.
- [FLP05] **Filho:2005:ILT**
M. C. Lopes Filho, H. J. Nussenzweig Lopes, and G. Planas. On the inviscid limit for two-dimensional incompressible flow with Navier friction condition. *SIAM Journal on Mathematical Analysis*, 36(4):1130–1141, 2005. CODEN SJMAAH. ISSN

- 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43234>.
- [FLT09] **Forster:2009:ACL** [FM04]
Barbara Forster, Eva Lütkebohmert, and Josef Teichmann. Absolutely continuous laws of jump-diffusions in finite and infinite dimensions with applications to mathematical finance. *SIAM Journal on Mathematical Analysis*, 40(5):2132–2153, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [FM00] **Fonseca:2000:SOS**
Irene Fonseca and Carlo Mantegazza. Second order singular perturbation models for phase transitions. *SIAM Journal on Mathematical Analysis*, 31(5):1121–1143, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35683>.
- [FM01] **Fujigaki:2001:APN**
Yoshiko Fujigaki and Tetsuro Miyakawa. Asymptotic profiles of nonstationary incompressible Navier-Stokes flows in the whole space. *SIAM Journal on Mathematical Analysis*, 33(3):523–544, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36707>.
- Fleischmann:2004:SBM**
Klaus Fleischmann and Carl Mueller. Super-Brownian motion with extra birth at one point. *SIAM Journal on Mathematical Analysis*, 36(3):740–772, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41947>.
- [FM09] **Forcadel:2009:ESM**
Nicolas Forcadel and Régis Monneau. Existence of solutions for a model describing the dynamics of junctions between dislocations. *SIAM Journal on Mathematical Analysis*, 40(6):2517–2535, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [FMP05] **Fila:2005:IRA**
Marek Fila, Hiroshi Matano, and Peter Poláčik. Immediate regularization after blow-up. *SIAM Journal on Mathematical Analysis*, 37(3):752–776, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61329>.
- [FMP09] **Freddi:2009:AIR**
Lorenzo Freddi, François Murat, and Roberto Paroni. Anisotropic inhomogeneous

rectangular thin-walled beams. *SIAM Journal on Mathematical Analysis*, 40(5):1923–1951, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Frehse:2003:ASF

[FMS03] Jens Frehse, Josef Málek, and Mark Steinhauer. On analysis of steady flows of fluids with shear-dependent viscosity based on the Lipschitz truncation method. *SIAM Journal on Mathematical Analysis*, 34(5):1064–1083, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41098>.

Feireisl:2005:WSS

[FN05] Eduard Feireisl and Antonín Novotný. Weak sequential stability of the set of admissible variational solutions to the Navier–Stokes–Fourier system. *SIAM Journal on Mathematical Analysis*, 37(2):619–650, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61458>.

Fouassier:2006:HFA

[Fou06] Elise Fouassier. High frequency analysis of Helmholtz equations: Case of two point sources. *SIAM Journal on Mathematical Analysis*, 38(2):617–636, January 2006. CO-

DEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Filo:2002:FBP

[FP02] Ján Filo and Volker Pluschke. A free boundary problem in dermal drug delivery. *SIAM Journal on Mathematical Analysis*, 33(6):1430–1454, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38579>.

Finch:2004:DFM

[FPR04] David Finch, Sarah K. Patch, and Rakesh. Determining a function from its mean values over a family of spheres. *SIAM Journal on Mathematical Analysis*, 35(5):1213–1240, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41781>.

Fraysse:2007:GVM

[Fra07] A. Fraysse. Generic validity of the multifractal formalism. *SIAM Journal on Mathematical Analysis*, 39(2):593–607, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Frid:2000:VSV

[FS00] Hermano Frid and Vladimir Shelukhin. Vanishing shear viscosity in the equations of compressible fluids for the flows

- with the cylinder symmetry. *SIAM Journal on Mathematical Analysis*, 31(5):1144–1156, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34394>.
- [FS01] Emmanuel Frénod and Eric Sonnendrücker. The finite Larmor radius approximation. *SIAM Journal on Mathematical Analysis*, 32(6):1227–1247, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36424>.
- [FS03] Hermano Frid and Vladimir Shelukhin. A quasi-linear parabolic system for three-phase capillary flow in porous media. *SIAM Journal on Mathematical Analysis*, 35(4):1029–1041, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40216>.
- [FS05] Hermano Frid and Vladimir Shelukhin. Initial boundary value problems for a quasi-linear parabolic system in three-phase capillary flow in porous media. *SIAM Journal on Mathematical Analysis*, 36(5):1407–1425, 2005.
- [Frenod:2001:FLR]
- [Frid:2003:QLP]
- [Frid:2005:IBV]
- [Frid:2009:HNP]
- [FS09] Hermano Frid and Jean Silva. Homogenization of nonlinear PDEs in the Fourier–Stieltjes algebras. *SIAM Journal on Mathematical Analysis*, 41(4):1589–1620, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [GB04] J. B. Greer and A. L. Bertozzi. Traveling wave solutions of fourth order PDEs for image processing. *SIAM Journal on Mathematical Analysis*, 36(1):38–68, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42737>.
- [Gev08] Julian Gevirtz. Boundary behavior of solutions of a class of genuinely nonlinear hyperbolic systems. *SIAM Journal on Mathematical Analysis*, 40(4):1291–1336, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [GG00] B. H. Gilding and J. Goncerzewicz. Localization of solutions of ex-
- [Greer:2004:TWS]
- [Gevirtz:2008:BBS]
- [Gilding:2000:LSE]

- terior domain problems for the porous media equation with radial symmetry. *SIAM Journal on Mathematical Analysis*, 31(4):862–893, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34450>. [GH05]
- [GG07] Nassif Ghoussoub and Yujin Guo. On the partial differential equations of electrostatic MEMS devices: Stationary case. *SIAM Journal on Mathematical Analysis*, 38(5):1423–1449, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [GGH05] Mi-Ho Giga, Yoshikazu Giga, and Hidekata Hontani. Self-similar expanding solutions in a sector for a crystalline flow. *SIAM Journal on Mathematical Analysis*, 37(4):1207–1226, January 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [GH03] Barnabas M. Garay and Josef Hofbauer. Robust permanence for ecological differential equations, minimax, and discretizations. *SIAM Journal on Mathematical Analysis*, 34(5):1007–1039, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39281>.
- [Gitzky:2005:GER] A. Glitzky and R. Hünlich. Global existence result for pair diffusion models. *SIAM Journal on Mathematical Analysis*, 36(4):1200–1225, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41759>.
- [GH08] Axel Grünrock and Sebastian Herr. Low regularity local well-posedness of the derivative nonlinear Schrödinger equation with periodic initial data. *SIAM Journal on Mathematical Analysis*, 39(6):1890–1920, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Gang:2009:GMT] Xu Gang and Yin Huicheng. Global multidimensional transonic conic shock wave for the perturbed supersonic flow past a cone. *SIAM Journal on Mathematical Analysis*, 41(1):178–218, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Ghoussoub:2007:PDE] Ghoussoub:2007:PDE
- [Giga:2005:SSE] Giga:2005:SSE
- [Garay:2003:RPE] Garay:2003:RPE

- [Gia05] **Giacomini:2005:SEQ**
Alessandro Giacomini. Size effects on quasi-static growth of cracks. *SIAM Journal on Mathematical Analysis*, 36(6):1887–1928, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43936>.
- [GIK05] **Garcke:2005:LSA**
Harald Garcke, Kazuo Ito, and Yoshihito Kohsaka. Linearized stability analysis of stationary solutions for surface diffusion with boundary conditions. *SIAM Journal on Mathematical Analysis*, 36(4):1031–1056, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43793>.
- [GIK08] **Garcke:2008:NSS**
Harald Garcke, Kazuo Ito, and Yoshihito Kohsaka. Nonlinear stability of stationary solutions for surface diffusion with boundary conditions. *SIAM Journal on Mathematical Analysis*, 40(2):491–515, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [GJS09] **Gurevich:2009:PST**
P. Gurevich, W. Jäger, and A. Skubachevskii. On periodicity of solutions for thermocontrol problems with hysteresis-type switches. *SIAM Journal on Mathematical Analysis*, 41(2):733–752, ??? 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [GJT06] **Gualdani:2006:NFO**
Maria Pia Gualdani, Ansgar Jüngel, and Giuseppe Toscani. A nonlinear fourth-order parabolic equation with nonhomogeneous boundary conditions. *SIAM Journal on Mathematical Analysis*, 37(6):1761–1779, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [GJV03] **Galiano:2003:PCD**
Gonzalo Galiano, Ansgar Jüngel, and Julián Velasco. A parabolic cross-diffusion system for granular materials. *SIAM Journal on Mathematical Analysis*, 35(3):561–578, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40938>.
- [GJX08] **Guo:2008:SSI**
Zhenhua Guo, Quansen Jiu, and Zhouping Xin. Spherically symmetric isentropic compressible flows with density-dependent viscosity coefficients. *SIAM Journal on Mathematical Analysis*, 39(5):1402–1427, ??? 2008. CODEN

- SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [GK00] **Gundy:2000:STL**
Richard F. Gundy and Kazaros Kazarian. Stopping times and local convergence for spline wavelet expansions. *SIAM Journal on Mathematical Analysis*, 31(3):561–573, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/32739>.
- [GK05] **Gyongy:2005:ASM**
István Gyöngy and Nicolai Krylov. An accelerated splitting-up method for parabolic equations. *SIAM Journal on Mathematical Analysis*, 37(4):1070–1097, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43790>.
- [GK08] **Grothaus:2008:ERC**
Martin Grothaus and Axel Klar. Ergodicity and rate of convergence for a nonsectorial fiber lay-down process. *SIAM Journal on Mathematical Analysis*, 40(3):968–983, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [GL07] **Guo:2007:OSM**
Kanghui Guo and Demetrio Labate. Optimally sparse mul-
- tidimensional representation using shearlets. *SIAM Journal on Mathematical Analysis*, 39(1):298–318, ??? 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [GL08] **Giacomini:2008:QSE**
Alessandro Giacomini and Luca Lussardi. Quasistatic evolution for a model in strain gradient plasticity. *SIAM Journal on Mathematical Analysis*, 40(3):1201–1245, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [GM01] **Gousseau:2001:NIB**
Yann Gousseau and Jean-Michel Morel. Are natural images of bounded variation? *SIAM Journal on Mathematical Analysis*, 33(3):634–648, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37115>.
- [GM05] **Garroni:2005:LPF**
A. Garroni and S. Müller. Γ -limit of a phase-field model of dislocations. *SIAM Journal on Mathematical Analysis*, 36(6):1943–1964, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43768>.

- [GMS09] **Guerra:2009:BLI**
 Graziano Guerra, Francesca Marcellini, and Veronika Schleper. Balance laws with integrable unbounded sources. *SIAM Journal on Mathematical Analysis*, 41(3):1164–1189, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [God09] **Goddard:2009:RCC**
 Benjamin D. Goddard. Rate of convergence of the configuration interaction model for the helium ground state. *SIAM Journal on Mathematical Analysis*, 41(1):77–116, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Gom03] **Gomes:2003:PTV**
 Diogo Aguiar Gomes. Perturbation theory for viscosity solutions of Hamilton–Jacobi equations and stability of Aubry–Mather sets. *SIAM Journal on Mathematical Analysis*, 35(1):135–147, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40596>.
- [Gor02] **Gordon:2002:FBP**
 Michael S. Gordon. A free boundary problem for a hypoplastic model of plane shear waves in a fully saturated granular material. *SIAM Journal on Mathematical Analysis*, 34(3):527–554, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39012>.
- [GP04] **Goudon:2004:HTE**
 Thierry Goudon and Frédéric Poupaud. Homogenization of transport equations: Weak mean field approximation. *SIAM Journal on Mathematical Analysis*, 36(3):856–881, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41503>.
- [GP05] **Gunther:2005:HST**
 Matthias Günther and Georg Prokert. On a Hele–Shaw–Type domain evolution with convected surface energy density. *SIAM Journal on Mathematical Analysis*, 37(2):372–410, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44484>.
- [GP06] **Gunther:2006:HST**
 Matthias Günther and Georg Prokert. On a Hele–Shaw type domain evolution with convected surface energy density: The third-order problem. *SIAM Journal on Mathematical Analysis*, 38(4):1154–1185, January 2006. CODEN

- SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [Gra08]
- Galaktionov:2000:AFD**
- [GPV00] Victor A. Galaktionov, Lambertus A. Peletier, and Juan L. Vazquez. Asymptotics of the fast-diffusion equation with critical exponent. *SIAM Journal on Mathematical Analysis*, 31(5):1157–1174, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/32845>. [Gra09]
- Gallay:2000:SVS**
- [GR00] Thierry Gallay and Geneviève Raugel. Scaling variables and stability of hyperbolic fronts. *SIAM Journal on Mathematical Analysis*, 32(1):1–29, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35133>. [Grü03]
- Gourley:2003:CTF**
- [GR03] Stephen A. Gourley and Shigui Ruan. Convergence and travelling fronts in functional differential equations with non-local terms: A competition model. *SIAM Journal on Mathematical Analysis*, 35(3):806–822, January 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [GSR05]
- Grandmont:2008:EWS**
- Céline Grandmont. Existence of weak solutions for the unsteady interaction of a viscous fluid with an elastic plate. *SIAM Journal on Mathematical Analysis*, 40(2):716–737, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Grabovsky:2009:ERE**
- Yury Grabovsky. Exact relations for effective conductivity of fiber-reinforced conducting composites with the Hall effect via a general theory. *SIAM Journal on Mathematical Analysis*, 41(3):973–1024, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Grun:2003:DSU**
- Günther Grün. Droplet spreading under weak slippage: A basic result on finite speed of propagation. *SIAM Journal on Mathematical Analysis*, 34(4):992–1006, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40329>.
- Gallagher:2005:PGD**
- Isabelle Gallagher and Laure Saint-Raymond. On pressureless gases driven by a strong inhomogeneous magnetic field. *SIAM Journal on Mathematical Analysis*, 36(4):1159–1176,

2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43554>. [GV05]
- [GSZ04] Yan Guo, Chi-Wang Shu, and Tie Zhou. The dynamics of a plane diode. *SIAM Journal on Mathematical Analysis*, 35(6):1617–1635, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42113>.
- [Gui07] Patrick Guidotti. A class of free boundary problems with onset of a new phase. *SIAM Journal on Mathematical Analysis*, 38(6):1981–2004, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [GW07]
- [GV00] Wilfrid Gangbo and Roberto Van der Putten. Uniqueness of equilibrium configurations in solid crystals. *SIAM Journal on Mathematical Analysis*, 32(3):465–492, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35668>. [GW09]
- Gerard-Varet:2005:OSI**
- David Gérard-Varet. Oscillating solutions of incompressible magnetohydrodynamics and dynamo effect. *SIAM Journal on Mathematical Analysis*, 37(3):815–840, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44460>.
- Garcke:2006:SST**
- Harald Garcke and Sandra Wieland. Surfactant spreading on thin viscous films: Nonnegative solutions of a coupled degenerate system. *SIAM Journal on Mathematical Analysis*, 37(6):2025–2048, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Groves:2007:SDM**
- M. D. Groves and E. Wahlén. Spatial dynamics methods for solitary gravity-capillary water waves with an arbitrary distribution of vorticity. *SIAM Journal on Mathematical Analysis*, 39(3):932–964, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Guo:2009:FON**
- Zongming Guo and Juncheng Wei. On a fourth order nonlinear elliptic equation with negative exponent. *SIAM Journal on Mathematical Analysis*, 40

- (5):2034–2054, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [GWZ09] **Grasselli:2009:CEP** Maurizio Grasselli, Hao Wu, and Songmu Zheng. Convergence to equilibrium for parabolic-hyperbolic time-dependent Ginzburg–Landau–Maxwell equations. *SIAM Journal on Mathematical Analysis*, 40(5):2007–2033, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [Han01]
- [GZ00] **Gan:2000:RPH** Shaobo Gan and Meirong Zhang. Resonance pockets of Hill’s equations with two-step potentials. *SIAM Journal on Mathematical Analysis*, 32(3):651–664, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35684>. [Han08]
- [GZ09] **Guo:2009:WBP** Zhenguang Guo and Yong Zhou. Wave breaking and persistence properties for the dispersive rod equation. *SIAM Journal on Mathematical Analysis*, 40(6):2567–2580, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [Hat00]
- [Ha01] **Ha:2001:SSC** Seung-Yeal Ha. L^1 stability for systems of conservation laws with a nonresonant moving source. *SIAM Journal on Mathematical Analysis*, 33(2):411–439, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37304>.
- Hansen:2001:LBS** Olaf Hansen. The local behavior of the solution of the radiosity equation at the vertices of polyhedral domains in \mathbf{R}^3 . *SIAM Journal on Mathematical Analysis*, 33(3):718–750, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37810>.
- Han:2008:RFC** Bin Han. Refinable functions and cascade algorithms in weighted spaces with Hölder continuous masks. *SIAM Journal on Mathematical Analysis*, 40(1):70–102, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Hattori:2000:ERA** Harumi Hattori. The entropy rate admissibility criterion and the entropy condition for a phase transition problem: The isothermal case. *SIAM Journal on Mathematical Analysis*, 31(4):791–820,

2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34122>.
- [Hat03] Harumi Hattori. The existence and large time behavior of solutions to a system related to a phase transition problem. *SIAM Journal on Mathematical Analysis*, 34(4):774–804, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39137>.
- [HHR09] Martin Hanke, Nuutti Hyvönen, and Stefanie Reusswig. An inverse backscatter problem for electric impedance tomography. *SIAM Journal on Mathematical Analysis*, 41(5):1948–1966, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). See erratum [HHR11].
- [HHR11] Martin Hanke, Nuutti Hyvönen, and Stefanie Reusswig. Erratum: An inverse backscatter problem for electric impedance tomography. *SIAM Journal on Mathematical Analysis*, 43(3):1495–1497, 2011. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL http://epubs.siam.org/sima/resource/1/sjmaah/v43/i3/p1495_s1. See [HHR09].
- [HH01] Peter Hähner and Thorsten Hohage. New stability estimates for the inverse acoustic inhomogeneous medium problem and applications. *SIAM Journal on Mathematical Analysis*, 33(3):670–685, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38356>.
- [HIN04] Takao Hanada, Naoyuki Ishimura, and Masaaki Nakamura. On the Eguchi–Oki–Matsumura equation for phase separation in one space dimension. *SIAM Journal on Mathematical Analysis*, 36(2):463–478, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40012>.
- [HK00a] Timothy J. Healey and Hansjörg Kielhöfer. Global continuation via higher-gradient regularization and singular limits in forced one-dimensional phase transitions. *SIAM Journal on Mathematical Analysis*, 31(6):1307–1331, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [HHR09] Martin Hanke, Nuutti Hyvönen, and Stefanie Reusswig. An inverse backscatter problem for electric impedance tomography. *SIAM Journal on Mathematical Analysis*, 41(5):1948–1966, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). See erratum [HHR11].

- (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34006>. [HKM08]
- [HK00b] **Hoshiga:2000:GSA**
Akira Hoshiga and Hideo Kubo. Global small amplitude solutions of nonlinear hyperbolic systems with a critical exponent under the null condition. *SIAM Journal on Mathematical Analysis*, 31(3):486–513, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/32606>.
- [HK06] **Hmidi:2006:RBC**
Taoufik Hmidi and Sahbi Keraani. Remarks on the blowup for the L^2 -critical nonlinear Schrödinger equations. *SIAM Journal on Mathematical Analysis*, 38(4):1035–1047, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [HKK01] **Harrell:2001:POW**
Evans M. Harrell II, Pawel Kröger, and Kazuhiro Kurata. On the placement of an obstacle or a well so as to optimize the fundamental eigenvalue. *SIAM Journal on Mathematical Analysis*, 33(1):240–259, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35757>.
- Hastings:2008:DMT**
Stuart Hastings, David Kinderlehrer, and J. Bryce McLeod. Diffusion mediated transport in multiple state systems. *SIAM Journal on Mathematical Analysis*, 39(4):1208–1230, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [HKP07] **Herty:2007:ESS**
M. Herty, A. Klar, and B. Piccoli. Existence of solutions for supply chain models based on partial differential equations. *SIAM Journal on Mathematical Analysis*, 39(1):160–173, ??? 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [HKS05] **Hwang:2005:GSN**
Hyung Ju Hwang, Kyungkeun Kang, and Angela Stevens. Global solutions of nonlinear transport equations for chemosensitive movement. *SIAM Journal on Mathematical Analysis*, 36(4):1177–1199, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43188>. See erratum [HKS07].
- [HKS07] **Hwang:2007:EGS**
Hyung Ju Hwang, Kyungkeun Kang, and Angela Stevens. Erratum: “Global Solutions of Nonlinear Transport Equa-

- tions for Chemosensitive Movement" [SIAM J. Math. Anal. 36 (2005), pp. 1177–1199]. *SIAM Journal on Mathematical Analysis*, 39(3):1018–1021, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). See [HKS05].
- [HL00] Brian T. Hayes and Philippe G. LeFloch. Nonclassical shocks and kinetic relations: Strictly hyperbolic systems. *SIAM Journal on Mathematical Analysis*, 31(5):941–991, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/31982>. **Hayes:2000:NSK**
- [HL02a] Woonjae Hwang and W. Brent Lindquist. The 2-dimensional Riemann problem for a 2×2 hyperbolic conservation law I. Isotropic media. *SIAM Journal on Mathematical Analysis*, 34(2):341–358, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39663>. **Hwang:2002:DRPa**
- [HL02b] Woonjae Hwang and W. Brent Lindquist. The 2-dimensional Riemann problem for a 2×2 hyperbolic conservation law II. Anisotropic media. *SIAM Journal on Mathematical Analysis*, 34(2):359–384, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39664>. **Hou:2006:GWP**
- [HL06] Thomas Y. Hou and Congming Li. On global well-posedness of the Lagrangian averaged Euler equations. *SIAM Journal on Mathematical Analysis*, 38(3):782–794, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [HLMP03] V. Hutson, Y. Lou, K. Mischaikow, and P. Poláčik. Competing species near a degenerate limit. *SIAM Journal on Mathematical Analysis*, 35(2):453–491, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40218>. **Hutson:2003:CSN**
- [HLTT08] Lisa Harris, Jani Lukkarinen, Stefan Teufel, and Florian Theil. Energy transport by acoustic modes of harmonic lattices. *SIAM Journal on Mathematical Analysis*, 40(4):1392–1418, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). **Harris:2008:ETA**

- [HM09a] **Hastings:2009:EAM**
 S. P. Hastings and J. B. McLeod. An elementary approach to a model problem of Lagerstrom. *SIAM Journal on Mathematical Analysis*, 40(6):2421–2436, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [HM09b] **Hoffman:2009:ECP**
 Kathleen A. Hoffman and Robert S. Manning. An extended conjugate point theory with application to the stability of planar buckling of an elastic rod subject to a repulsive self-potential. *SIAM Journal on Mathematical Analysis*, 41(2):465–494, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [HMS03] **Huang:2003:GSF**
 Feimin Huang, Akitaka Matsumura, and Xiaoding Shi. A gas-solid free boundary problem for a compressible viscous gas. *SIAM Journal on Mathematical Analysis*, 34(6):1331–1355, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40373>.
- [HMS04] **Huang:2004:VSW**
 Feimin Huang, Akitaka Matsumura, and Xiaoding Shi. Viscous shock wave to a gas-solid free boundary problem for compressible gas. *SIAM Journal on Mathematical Analysis*, 36(2):498–522, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40943>.
- [HN05] **Hu:2005:ADN**
 Bei Hu and David P. Nicholls. Analyticity of Dirichlet–Neumann operators on Hölder and Lipschitz domains. *SIAM Journal on Mathematical Analysis*, 37(1):302–320, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44481>.
- [HNS08] **Hayashi:2008:SED**
 Nakao Hayashi, Pavel I. Naumkin, and Hideaki Sunagawa. On the Schrödinger equation with dissipative nonlinearities of derivative type. *SIAM Journal on Mathematical Analysis*, 40(1):278–291, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [HNZ06] **Hecklin:2006:SCS**
 G. Hecklin, G. Nürnberger, and F. Zeilfelder. The structure of C1 spline spaces on Freudenthal partitions. *SIAM Journal on Mathematical Analysis*, 38(2):347–367,

January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Hoff:2006:UWS

[Hof06]

David Hoff. Uniqueness of weak solutions of the Navier–Stokes equations of multidimensional, compressible flow. *SIAM Journal on Mathematical Analysis*, 37(6):1742–1760, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Hornung:2008:CRT

[Hor08]

Peter Hornung. A Γ -convergence result for thin Martensitic films in linearized elasticity. *SIAM Journal on Mathematical Analysis*, 40(1):186–214, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Hoff:2009:IBT

[HP09]

David Hoff and Misha Perepelitsa. Instantaneous boundary tangency and cusp formation in two-dimensional fluid flow. *SIAM Journal on Mathematical Analysis*, 41(2):753–780, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Herty:2006:CCC

[HR06]

M. Herty and M. Rasle. Coupling conditions for a class of second-order models for traffic flow. *SIAM Journal on Mathematical Analysis*, 38(2):

595–616, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Hieber:2008:QPS

[HR08]

Matthias Hieber and Joachim Rehberg. Quasilinear parabolic systems with mixed boundary conditions on nonsmooth domains. *SIAM Journal on Mathematical Analysis*, 40(1):292–305, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Hetzer:2002:UPC

[HS02]

Georg Hetzer and Wenxian Shen. Uniform persistence, coexistence, and extinction in almost periodic/nonautonomous competition diffusion systems. *SIAM Journal on Mathematical Analysis*, 34(1):204–227, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39069>.

Han:2006:WSS

[HS06]

Bin Han and Zuowei Shen. Wavelets with short support. *SIAM Journal on Mathematical Analysis*, 38(2):530–556, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Han:2008:CSS

[HS08]

Bin Han and Zuowei Shen. Compactly supported sym-

- metric C^∞ wavelets with spectral approximation order. *SIAM Journal on Mathematical Analysis*, 40(3):905–938, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [HSZ03a] Thorsten Hohage, Frank Schmidt, and Lin Zschiedrich. Solving time-harmonic scattering problems based on the pole condition I: Theory. *SIAM Journal on Mathematical Analysis*, 35(1):183–210, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40647>.
- [HSZ03b] Thorsten Hohage, Frank Schmidt, and Lin Zschiedrich. Solving time-harmonic scattering problems based on the pole condition II: Convergence of the PML method. *SIAM Journal on Mathematical Analysis*, 35(3):547–560, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40648>.
- [HT09] Matthieu Hillairet and Takéo Takahashi. Collisions in three-dimensional fluid structure interaction problems. *SIAM Journal on Mathematical Analysis*, 40(6):2451–2477, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Hur06] Vera Mikiyoung Hur. Global bifurcation theory of deep-water waves with vorticity. *SIAM Journal on Mathematical Analysis*, 37(5):1482–1521, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [HW02] Feimin Huang and Zhen Wang. Convergence of viscosity solutions for isothermal gas dynamics. *SIAM Journal on Mathematical Analysis*, 34(3):595–610, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40581>.
- [HW03] Lihong Huang and Jianhong Wu. Nonlinear waves in networks of neurons with delayed feedback: Pattern formation and continuation. *SIAM Journal on Mathematical Analysis*, 34(4):836–860, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38651>.

- [HW09] **Hu:2009:LMN**
 Xianpeng Hu and Dehua Wang. Low Mach number limit of viscous compressible magnetohydrodynamic flows. *SIAM Journal on Mathematical Analysis*, 41(3):1272–1294, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Hwa04] **Hwang:2004:RVP**
 Hyung Ju Hwang. Regularity for the Vlasov–Poisson system in a convex domain. *SIAM Journal on Mathematical Analysis*, 36(1):121–171, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42227>.
- [HY03] **Ha:2003:SSH**
 Seung-Yeal Ha and Tong Yang. L^1 stability for systems of hyperbolic conservation laws with a resonant moving source. *SIAM Journal on Mathematical Analysis*, 34(5):1226–1251, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39798>.
- [HZ03] **Hoff:2003:FDA**
 David Hoff and Mohammed Ziane. Finite-dimensional attractors and exponential attractors for the Navier–Stokes equations of compressible flow. *SIAM Journal on Mathematical Analysis*, 34(5):1040–1063, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40088>.
- [HZ08] **Hsu:2008:SST**
 Sze-Bi Hsu and Xiao-Qiang Zhao. Spreading speeds and traveling waves for nonmonotone integrodifference equations. *SIAM Journal on Mathematical Analysis*, 40(2):776–789, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [HZ09] **He:2009:DSM**
 Lingbing He and Ping Zhang. L^2 decay of solutions to a micro-macro model for polymeric fluids near equilibrium. *SIAM Journal on Mathematical Analysis*, 40(5):1905–1922, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Ift02] **Iftimie:2002:URN**
 Dragos Iftimie. A uniqueness result for the Navier–Stokes equations with vanishing vertical viscosity. *SIAM Journal on Mathematical Analysis*, 33(6):1483–1493, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38212>.

- [II01] **Ishii:2001:ASM**
 Hitoshi Ishii and Katsuyuki Ishii. An approximation scheme for motion by mean curvature with right-angle boundary condition. *SIAM Journal on Mathematical Analysis*, 33(2):369–389, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36810>.
- [IK01] **Ishibashi:2001:FNP**
 Toshihiro Ishibashi and Shigeaki Koike. On fully nonlinear PDEs derived from variational problems of L^p norms. *SIAM Journal on Mathematical Analysis*, 33(3):545–569, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38000>.
- [IL05] **Ishii:2005:LSL**
 Hitoshi Ishii and Paola Loreti. Limits of solutions of p -Laplace equations as p goes to infinity and related variational problems. *SIAM Journal on Mathematical Analysis*, 37(2):411–437, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43282>.
- [IM01] **Ishii:2001:MMW**
 Hitoshi Ishii and Toshio Mikami. A mathematical model of the wearing process of a nonconvex stone. *SIAM Journal on Mathematical Analysis*, 33(4):860–876, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38495>.
- [IM04] **Ishii:2004:CGC**
 Hitoshi Ishii and Toshio Mikami. Convexified Gauss curvature flow of sets: A stochastic approximation. *SIAM Journal on Mathematical Analysis*, 36(2):552–579, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42050>.
- [Ing00] **Ingerman:2000:DCD**
 David V. Ingerman. Discrete and continuous Dirichlet-to-Neumann maps in the layered case. *SIAM Journal on Mathematical Analysis*, 31(6):1214–1234, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/32658>.
- [Isa01] **Isakov:2001:UCT**
 Victor Isakov. On the uniqueness of the continuation for a thermoelasticity system. *SIAM Journal on Mathematical Analysis*, 33(3):509–522, 2001. CODEN SJMAAH.

- ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36650>. [Jen00]
- Ishii:2005:ORC**
- [Ish05] Katsuyuki Ishii. Optimal rate of convergence of the Bence–Merriman–Osher algorithm for motion by mean curvature. *SIAM Journal on Mathematical Analysis*, 37(3):841–866, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61862>. [JJS00]
- Imbert:2004:KFM**
- [IV04] C. Imbert and J. Vovelle. A kinetic formulation for multidimensional scalar conservation laws with boundary conditions and applications. *SIAM Journal on Mathematical Analysis*, 36(1):214–232, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42468>. [JLM01]
- Isakov:2008:IPD**
- [IWY08] Victor Isakov, Jenn-Nan Wang, and Masahiro Yamamoto. An inverse problem for a dynamical Lamé system with residual stress. *SIAM Journal on Mathematical Analysis*, 39(4):1328–1343, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [JLP06]
- Jenssen:2000:BSC**
- Helge Kristian Jenssen. Blowup for systems of conservation laws. *SIAM Journal on Mathematical Analysis*, 31(4):894–908, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35233>.
- Jia:2000:DSN**
- [JJS00] Rong-Qing Jia, Qingtang Jiang, and Zuwei Shen. Distributional solutions of nonhomogeneous discrete and continuous refinement equations. *SIAM Journal on Mathematical Analysis*, 32(2):420–434, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35088>.
- Juutinen:2001:EVS**
- [JLM01] Petri Juutinen, Peter Lindqvist, and Juan J. Manfredi. On the equivalence of viscosity solutions and weak solutions for a quasi-linear equation. *SIAM Journal on Mathematical Analysis*, 33(3):699–717, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37217>.
- Johnson:2006:EEL**
- [JLP06] E. R. Johnson, Michael Levitin, and Leonid Parnowski.

- Existence of eigenvalues of a linear operator pencil in a curved waveguide — localized shelf waves on a curved coast. *SIAM Journal on Mathematical Analysis*, 37(5):1465–1481, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [JM08] Ansgar Jüngel and Daniel Matthes. The Derrida–Lebowitz–Speer–Spohn equation: Existence, nonuniqueness, and decay rates of the solutions. *SIAM Journal on Mathematical Analysis*, 39(6):1996–2015, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Jungel:2008:DLS]
- [JM09] Ansgar Jüngel and Josipa-Pina Milišić. A sixth-order nonlinear parabolic equation for quantum systems. *SIAM Journal on Mathematical Analysis*, 41(4):1472–1490, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Jungel:2009:SON]
- [JN04] Jan Janas and Serguei Naboko. Infinite Jacobi matrices with unbounded entries: Asymptotics of eigenvalues and the transformation operator approach. *SIAM Journal on Mathematical Analysis*, 36(2):643–658, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40607>.
- [JNS06] Song Jiang, Guoxi Ni, and Wenjun Sun. Vanishing viscosity limit to rarefaction waves for the Navier–Stokes equations of one-dimensional compressible heat-conducting fluids. *SIAM Journal on Mathematical Analysis*, 38(2):368–384, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Jochmann:2000:LTA]
- [Joc00] Frank Jochmann. Long time asymptotics of solutions to the anharmonic oscillator model from nonlinear optics. *SIAM Journal on Mathematical Analysis*, 32(4):887–915, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36093>.
- [Jochmann:2002:ESQ]
- [Joc02] Frank Jochmann. Existence of solutions and a quasi-stationary limit for a hyperbolic system describing ferromagnetism. *SIAM Journal on Mathematical Analysis*, 34(2):315–340, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam>.

- org/sam-bin/dbq/article/39229.
- [Joc05] **Jochmann:2005:ABE**
 Frank Jochmann. Asymptotic behavior of the electromagnetic field for a micromagnetism equation without exchange energy. *SIAM Journal on Mathematical Analysis*, 37(1):276–290, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44332>.
- [Joh03] **Johnson:2003:OAW**
 Brody Dylan Johnson. On the oversampling of affine wavelet frames. *SIAM Journal on Mathematical Analysis*, 35(3):623–638, January 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Joh09] **Johnson:2009:NSP**
 Mathew A. Johnson. Nonlinear stability of periodic traveling wave solutions of the generalized Korteweg–de Vries equation. *SIAM Journal on Mathematical Analysis*, 41(5):1921–1947, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [JP00] **Jungel:2000:GNS**
 Ansgar Jüngel and René Pinnau. Global nonnegative solutions of a nonlinear fourth-order parabolic equation for quantum systems. *SIAM Journal on Mathematical Analysis*, 32(4):760–777, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36026>.
- [JS02] **Jimbo:2002:NPC**
 Shuichi Jimbo and Peter Sternberg. Nonexistence of permanent currents in convex planar samples. *SIAM Journal on Mathematical Analysis*, 33(6):1379–1392, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38602>.
- [JT09] **Jabin:2009:KDP**
 Pierre-Emmanuel Jabin and Athanasios E. Tzavaras. Kinetic decomposition for periodic homogenization problems. *SIAM Journal on Mathematical Analysis*, 41(1):360–390, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [JW07] **Jian:2007:CEM**
 Huai-Yu Jian and Xu-Jia Wang. Continuity estimates for the Monge–Ampère equation. *SIAM Journal on Mathematical Analysis*, 39(2):608–626, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- [JWW07] **Jimenez:2007:WNH** David Jimenez, Long Wang, and Yang Wang. White noise hypothesis for uniform quantization errors. *SIAM Journal on Mathematical Analysis*, 38(6):2042–2056, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [JZ09a] **Jiang:2009:BLN** Song Jiang and Jianwen Zhang. Boundary layers for the Navier–Stokes equations of compressible heat-conducting flows with cylindrical symmetry. *SIAM Journal on Mathematical Analysis*, 41(1):237–268, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [JZ09b] **Jin:2009:SDN** Yu Jin and Xiao-Qiang Zhao. Spatial dynamics of a nonlocal periodic reaction-diffusion model with stage structure. *SIAM Journal on Mathematical Analysis*, 40(6):2496–2516, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [KA00] **Koch:2000:SHB** Herbert Koch and Stuart S. Antman. Stability and Hopf bifurcation for fully nonlinear parabolic-hyperbolic equations. *SIAM Journal on Mathematical Analysis*, 32(2):360–384, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/33793>.
- [Kag01] **Kagei:2001:IML** Yoshiyuki Kagei. Invariant manifolds and long-time asymptotics for the Vlasov–Poisson–Fokker–Planck equation. *SIAM Journal on Mathematical Analysis*, 33(2):489–507, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37136>.
- [Kan04] **Kang:2004:RAS** Kyungkeun Kang. Regularity of axially symmetric flows in a half-space in three dimensions. *SIAM Journal on Mathematical Analysis*, 35(6):1636–1643, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41442>.
- [Kat05] **Katriel:2005:ETW** Guy Katriel. Existence of travelling waves in discrete Sine-Gordon rings. *SIAM Journal on Mathematical Analysis*, 36(5):1434–1443, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44017>.

- [Kei01] **Keinert:2001:RMA**
 Fritz Keinert. Raising multiwavelet approximation order through lifting. *SIAM Journal on Mathematical Analysis*, 32(5):1032–1049, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34950>.
- [Kel06] **Kelliher:2006:NSE**
 James P. Kelliher. Navier–Stokes equations with Navier boundary conditions for a bounded domain in the plane. *SIAM Journal on Mathematical Analysis*, 38(1):210–232, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [KGB06] **Kyrychko:2006:DSS**
 Y. Kyrychko, S. A. Gourley, and M. V. Bartuccelli. Dynamics of a stage-structured population model on an isolated finite lattice. *SIAM Journal on Mathematical Analysis*, 37(5):1688–1708, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Kim00] **Kim:2000:SHS**
 Jong Uhn Kim. On a stochastic hyperbolic system in linear elasticity. *SIAM Journal on Mathematical Analysis*, 32(2):304–322, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35037>.
- [Kim02] **Kim:2002:SEE**
 Jong Uhn Kim. On the stochastic Euler equations in a two-dimensional domain. *SIAM Journal on Mathematical Analysis*, 33(5):1211–1227, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38394>.
- [Kim05] **Kim:2005:IMS**
 Jong Uhn Kim. Invariant measures for the stochastic von Karman plate equation. *SIAM Journal on Mathematical Analysis*, 36(5):1689–1703, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43885>.
- [Kim06] **Kim:2006:BCN**
 Hyunseok Kim. A blow-up criterion for the nonhomogeneous incompressible Navier–Stokes equations. *SIAM Journal on Mathematical Analysis*, 37(5):1417–1434, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Kim09] **Kim:2009:LFL**
 Namkwon Kim. Large friction limit and the inviscid limit

- of 2D Navier–Stokes equations under Navier friction condition. *SIAM Journal on Mathematical Analysis*, 41(4):1653–1663, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). See corrigendum [Kim13].
- [Kim13] Namkwon Kim. Corrigendum: Large Friction Limit and the Inviscid Limit of 2D Navier–Stokes Equations under Navier Friction Condition. *SIAM Journal on Mathematical Analysis*, 45(3):1992–1994, 2013. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). See [Kim09].
- [KK02] Kyungkeun Kang and Seick Kim. On the Hölder continuity of solutions of a certain system related to Maxwell’s equations. *SIAM Journal on Mathematical Analysis*, 34(1):87–100, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39334>. See erratum [KK05].
- [KK04a] Kyeong-Hun Kim and N. V. Krylov. On the Sobolev space theory of parabolic and elliptic equations in C^1 domains. *SIAM Journal on Mathematical Analysis*, 36(2):618–642, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42114>.
- [KK04b] Jae Ryong Kweon and R. Bruce Kellogg. Regularity of solutions to the Navier–Stokes system for compressible flows on a polygon. *SIAM Journal on Mathematical Analysis*, 35(6):1451–1485, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41806>.
- [KK05] Kyungkeun Kang and Seick Kim. Erratum: On the Hölder continuity of solutions of a certain system related to Maxwell’s equations. *SIAM Journal on Mathematical Analysis*, 36(5):1704–1705, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61290>. See [KK02].
- [KK07] Doyoon Kim and N. V. Krylov. Elliptic differential equations with coefficients measurable with respect to one variable and VMO with respect to the others. *SIAM Journal on Mathematical Analysis*, 39(2):489–506, 2007. CO-

Kim:2013:CLF**Kweon:2004:RSN****Kang:2002:HCS****Kang:2005:EHC****Kim:2004:SST****Kim:2007:EDE**

- DEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [KK08a] **Kaltenbacher:2008:IPN**
 Barbara Kaltenbacher and Michael V. Klibanov. An inverse problem for a nonlinear parabolic equation with applications in population dynamics and magnetics. *SIAM Journal on Mathematical Analysis*, 39(6):1863–1889, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [KK08b] **Katayama:2008:DET**
 Soichiro Katayama and Hideo Kubo. Decay estimates of a tangential derivative to the light cone for the wave equation and their application. *SIAM Journal on Mathematical Analysis*, 39(6):1851–1862, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [KKS00] **Kawashita:2000:HMI**
 Mishio Kawashita, Yaroslav V. Kurylev, and Hideo Soga. Harmonic moments and an inverse problem for the heat equation. *SIAM Journal on Mathematical Analysis*, 32(3):522–537, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35303>.
- [KKS08] **Kirr:2008:SBB**
 E. W. Kirr, P. G. Kevrekidis, E. Shlizerman, and M. I. Weinstein. Symmetry-breaking bifurcation in nonlinear Schrödinger/Gross–Pitaevskii equations. *SIAM Journal on Mathematical Analysis*, 40(2):566–604, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [KKS02] **Kim:2002:NPD**
 Sungwhan Kim, Ohin Kwon, Jin Keun Seo, and Jeong-Rock Yoon. On a nonlinear partial differential equation arising in magnetic resonance electrical impedance tomography. *SIAM Journal on Mathematical Analysis*, 34(3):511–526, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39135>.
- [KL02] **Kondo:2002:ZDD**
 Cezar I. Kondo and Philippe G. LeFloch. Zero diffusion-dispersion limits for scalar conservation laws. *SIAM Journal on Mathematical Analysis*, 33(6):1320–1329, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37426>.
- [KL08] **Kammerer:2008:PTG**
 Clotilde Fermanian Kammerer and Caroline Lasser. Prop-

- agation through generic level crossings: A surface hopping semigroup. *SIAM Journal on Mathematical Analysis*, 40(1):103–133, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [KLVZ09] Rowan Killip, Dong Li, Monica Visan, and Xiaoyi Zhang. Characterization of minimal-mass blowup solutions to the focusing mass-critical NLS. *SIAM Journal on Mathematical Analysis*, 41(1):219–236, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [KM01] T. Kappeler and B. Mityagin. Estimates for periodic and Dirichlet eigenvalues of the Schrödinger operator. *SIAM Journal on Mathematical Analysis*, 33(1):113–152, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36575>.
- [KMS07] Vladimir Kamotski, Karsten Matthies, and Valery P. Smyshlyaev. Exponential homogenization of linear second order elliptic PDEs with periodic coefficients. *SIAM Journal on Mathematical Analysis*, 38(5):1565–1587, 2007.
- [KMX08] Grzegorz Karch, Changxing Miao, and Xiaojing Xu. On convergence of solutions of fractal Burgers equation toward rarefaction waves. *SIAM Journal on Mathematical Analysis*, 39(5):1536–1549, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [KN00] Mishio Kawashita and Gen Nakamura. The poles of the resolvent for the exterior Neumann problem of anisotropic elasticity. *SIAM Journal on Mathematical Analysis*, 31(4):701–725, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/31486>.
- [KN09] Yong Jung Kim and Wei-Ming Ni. Higher order approximations in the heat equation and the truncated moment problem. *SIAM Journal on Mathematical Analysis*, 40(6):2241–2261, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [KO00] Michael Kunzinger and Michael Oberguggenberger. Group

- analysis of differential equations and generalized functions. *SIAM Journal on Mathematical Analysis*, 31(6): 1192–1213, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/33450>. [KP08]
- [Kov08] Hynek Kovařík. Weakly coupled Schrödinger operators on regular metric trees. *SIAM Journal on Mathematical Analysis*, 39(4):1135–1149, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [KPS09]
- [KP05] W. Kozek and G. E. Pfander. Identification of operators with bandlimited symbols. *SIAM Journal on Mathematical Analysis*, 37(3):867–888, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43343>. [KPT09]
- [KP07] Miyuki Koiso and Bennett Palmer. Uniqueness theorems for stable anisotropic capillary surfaces. *SIAM Journal on Mathematical Analysis*, 39(3): 721–741, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [Kri04]
- Kostin:2008:KZK**
- I. Kostin and G. Panasenko. Khokhlov–Zabolotskaya–Kuznetsov-type equation: Nonlinear acoustics in heterogeneous media. *SIAM Journal on Mathematical Analysis*, 40(2):699–715, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Kovarik:2008:WCS**
- Kevrekidis:2009:ASS**
- P. G. Kevrekidis, D. E. Pelinovsky, and A. Stefanov. Asymptotic stability of small bound states in the discrete nonlinear Schrödinger equation. *SIAM Journal on Mathematical Analysis*, 41(5):2010–2030, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Kozek:2005:IOB**
- Kodama:2009:WED**
- Yuji Kodama, V. U. Pierce, and Fei-Ran Tian. On the Whitham equations for the defocusing complex modified KdV equation. *SIAM Journal on Mathematical Analysis*, 40(5):1750–1782, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Koiso:2007:UTS**
- Krisztin:2004:INC**
- Tibor Krisztin. Invariance and noninvariance of center manifolds of time- t maps with respect to the semiflow. *SIAM Journal on Mathematical Analysis*, 36(3):717–739,

2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41917>.

Krejci:2009:BF

[KRS09] Pavel Krejčí, Elisabetta Rocca, and Jürgen Sprekels. A bottle in a freezer. *SIAM Journal on Mathematical Analysis*, 41(5):1851–1873, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Krylov:2001:HES

[Kry01] N. V. Krylov. The heat equation in $L_q((0, T), L_p)$ -spaces with weights. *SIAM Journal on Mathematical Analysis*, 32(5):1117–1141, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37203>.

Krylov:2003:BTR

[Kry03] N. V. Krylov. Brownian trajectory is a regular lateral boundary for the heat equation. *SIAM Journal on Mathematical Analysis*, 34(5):1167–1182, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40298>.

Krylov:2009:DFS

[Kry09] N. V. Krylov. On divergence form SPDEs with VMO co-

efficients. *SIAM Journal on Mathematical Analysis*, 40(6):2262–2285, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Kunze:2000:RRC

[KS00] Markus Kunze and Herbert Spohn. Radiation reaction and center manifolds. *SIAM Journal on Mathematical Analysis*, 32(1):30–53, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35157>.

Krupa:2001:EGS

[KS01] M. Krupa and P. Szmolyan. Extending geometric singular perturbation theory to non-hyperbolic points — fold and Canard points in two dimensions. *SIAM Journal on Mathematical Analysis*, 33(2):286–314, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36091>.

Kapitula:2002:EBN

[KS02a] Todd Kapitula and Björn Sandstede. Edge bifurcations for near integrable systems via Evans function techniques. *SIAM Journal on Mathematical Analysis*, 33(5):1117–1143, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36091>.

[//epubs.siam.org/sam-bin/dbq/article/37230](http://epubs.siam.org/sam-bin/dbq/article/37230).

Kuttler:2002:DCN

- [KS02b] Kenneth L. Kuttler and Meir Shillor. Dynamic contact with normal compliance wear and discontinuous friction coefficient. *SIAM Journal on Mathematical Analysis*, 34(1):1–27, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39118>.

Klaus:2003:EZS

- [KS03a] M. Klaus and J. K. Shaw. On the eigenvalues of Zakharov–Shabat systems. *SIAM Journal on Mathematical Analysis*, 34(4):759–773, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40306>.

Kopotun:2003:MAF

- [KS03b] Kirill Kopotun and Alexei Shadrin. On k -monotone approximation by free knot splines. *SIAM Journal on Mathematical Analysis*, 34(4):901–924, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35851>.

Kusiak:2005:CSS

- [KS05a] Steven Kusiak and John Sylvester. The convex scat-

tering support in a background medium. *SIAM Journal on Mathematical Analysis*, 36(4):1142–1158, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43357>.

Kutyniok:2005:WBG

- [KS05b] Gitta Kutyniok and Thomas Strohmer. Wilson bases for general time-frequency lattices. *SIAM Journal on Mathematical Analysis*, 37(3):685–711, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43723>.

Kawohl:2006:DEA

- [KS06a] B. Kawohl and G. Sweers. On the differential equation $u_{xxxx} + u_{yyyy} = f$ for an anisotropic stiff material. *SIAM Journal on Mathematical Analysis*, 37(6):1828–1853, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Kolev:2006:VPW

- [KS06b] B. Kolev and D. H. Sattinger. Variational principles for water waves. *SIAM Journal on Mathematical Analysis*, 38(3):906–920, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- Koch:2007:LSL**
- [KS07] Herbert Koch and Jean-Claude Saut. Local smoothing and local solvability for third order dispersive equations. *SIAM Journal on Mathematical Analysis*, 38(5):1528–1541, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Kavallaris:2009:GRR**
- [KS09a] Nikos I. Kavallaris and Philippe Souplet. Grow-up rate and refined asymptotics for a two-dimensional Patlak–Keller–Segel model in a disk. *SIAM Journal on Mathematical Analysis*, 40(5):1852–1881, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Kurzke:2009:ESL**
- [KS09b] Matthias Kurzke and Daniel Spirn. On the energy of superconductors in large and small domains. *SIAM Journal on Mathematical Analysis*, 40(5):2077–2104, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Kutyniok:2009:ADS**
- [KS09c] Gitta Kutyniok and Tomas Sauer. Adaptive directional subdivision schemes and shearlet multiresolution analysis. *SIAM Journal on Mathematical Analysis*, 41(4):1436–1471, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Krejci:2002:PFM**
- [KSS02] Pavel Krejčí, Jürgen Sprekels, and Ulisse Stefanelli. Phase-field models with hysteresis in one-dimensional thermoviscoplasticity. *SIAM Journal on Mathematical Analysis*, 34(2):409–434, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38760>.
- Kim:2001:DWM**
- [KT01] Yong Jung Kim and Athanasios E. Tzavaras. Diffusive N -waves and metastability in the Burgers equation. *SIAM Journal on Mathematical Analysis*, 33(3):607–633, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38051>.
- Kaiser:2005:GEF**
- [KTvW05] R. Kaiser, A. Tilgner, and W. von Wahl. A generalized energy functional for plane Couette flow. *SIAM Journal on Mathematical Analysis*, 37(2):438–454, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44260>.

- [Kur04] **Kurth:2004:EIM**
 Michael Kurth. On the existence of infinitely many modes of a nonlocal nonlinear Schrödinger equation related to dispersion-managed solitons. *SIAM Journal on Mathematical Analysis*, 36(3):967–985, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43153>.
- [KW01] **Kirr:2001:PEH**
 E. Kirr and M. I. Weinstein. Parametrically excited Hamiltonian partial differential equations. *SIAM Journal on Mathematical Analysis*, 33(1):16–52, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36345>.
- [KY03a] **Kang:2003:BDC**
 Hyeonbae Kang and KiHyun Yun. Boundary determination of conductivities and Riemannian metrics via local Dirichlet-to-Neumann operator. *SIAM Journal on Mathematical Analysis*, 34(3):719–735, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39504>.
- [KY03b] **Kim:2003:UIS**
 Sungwhan Kim and Masahiro Yamamoto. Uniqueness in identification of the support of a source term in an elliptic equation. *SIAM Journal on Mathematical Analysis*, 35(1):148–159, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41270>.
- [KY04] **Khasminskii:2004:APA**
 R. Z. Khasminskii and G. Yin. On averaging principles: An asymptotic expansion approach. *SIAM Journal on Mathematical Analysis*, 35(6):1534–1560, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40397>.
- [Kyr04] **Kyriazis:2004:MCA**
 George Kyriazis. Multilevel characterizations of anisotropic function spaces. *SIAM Journal on Mathematical Analysis*, 36(2):441–462, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42568>.
- [Laf04] **Laforest:2004:PEE**
 M. Laforest. A posteriori error estimate for front-tracking: Systems of conservation laws. *SIAM Journal on Mathematical Analysis*, 35(5):1347–1370, 2004. CODEN SJMAAH.

- ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41687>.
- Lu:2008:SDT**
- [LAJ08] Wenlian Lu, Fatihcan M. Atay, and Jürgen Jost. Synchronization of discrete-time dynamical networks with time-varying couplings. *SIAM Journal on Mathematical Analysis*, 39(4):1231–1259, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Laurencot:2002:LSW**
- [Lau02] Philippe Laurençot. The Lifshitz–Slyozov–Wagner equation with conserved total volume. *SIAM Journal on Mathematical Analysis*, 34(2):257–272, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38747>.
- Layton:2007:BEH**
- [Lay07] William Layton. Bounds on energy and helicity dissipation rates of approximate deconvolution models of turbulence. *SIAM Journal on Mathematical Analysis*, 39(3):916–931, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Lombardo:2003:WPB**
- [LCS03] Maria Carmela Lombardo, Marco Cannone, and Marco Sammartino. Well-posedness of the boundary layer equations. *SIAM Journal on Mathematical Analysis*, 35(4):987–1004, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41205>.
- Le:2005:RSC**
- [Le05] Dung Le. Regularity of solutions to a class of cross diffusion systems. *SIAM Journal on Mathematical Analysis*, 36(6):1929–1942, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42835>.
- Lee:2009:VFM**
- [Lee09] S. L. Lee. Vector fields for mean value coordinates. *SIAM Journal on Mathematical Analysis*, 40(6):2437–2450, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Lenells:2008:HSE**
- [Len08] Jonatan Lenells. The Hunter–Saxton equation: A geometric approach. *SIAM Journal on Mathematical Analysis*, 40(1):266–277, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- [Lew01] **Lewicka:2001:SCP** Marta Lewicka. Stability conditions for patterns of noninteracting large shock waves. *SIAM Journal on Mathematical Analysis*, 32(5):1094–1116, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36750>.
- [Lew05a] **Lewicka:2005:LFS** Marta Lewicka. Lyapunov functional for solutions of systems of conservation laws containing a strong rarefaction. *SIAM Journal on Mathematical Analysis*, 36(5):1371–1399, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42950>.
- [Lew05b] **Lewicka:2005:SCS** Marta Lewicka. Stability conditions for strong rarefaction waves. *SIAM Journal on Mathematical Analysis*, 36(4):1346–1369, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42951>.
- [LHK07] **Lilli:2007:SPS** M. Lilli, T. J. Healey, and H. Kielhöfer. Singular perturbation as a selection criterion for young-measure solutions. *SIAM Journal on Mathematical Analysis*, 39(1):195–209, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Li05] **Li:2005:IPM** Shumin Li. An inverse problem for Maxwell’s equations in bi-isotropic media. *SIAM Journal on Mathematical Analysis*, 37(4):1027–1043, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44366>.
- [Li06] **Li:2006:VPU** Bo Li. Variational properties of unbounded order parameters. *SIAM Journal on Mathematical Analysis*, 38(1):16–36, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Li08] **Li:2008:STW** Tong Li. Stability of traveling waves in quasi-linear hyperbolic systems with relaxation and diffusion. *SIAM Journal on Mathematical Analysis*, 40(3):1058–1075, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Li09] **Li:2009:MEF** Bo Li. Minimization of electrostatic free energy and the Poisson–Boltzmann equation for molecular solvation with

- implicit solvent. *SIAM Journal on Mathematical Analysis*, 40 (6):2536–2566, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). See [Li09].
- [Li11] Bo Li. Erratum: “Minimization of Electrostatic Free Energy and the Poisson–Boltzmann Equation for Molecular Solvation with Implicit Solvent”. *SIAM Journal on Mathematical Analysis*, 43(6):2776–2777, 2011. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL http://epubs.siam.org/sima/resource/1/sjmaah/v43/i6/p2776_s1. See [Li09].
- [Lie05] Gary M. Lieberman. Bounds for the steady-state Sel’kov model for arbitrary p in any number of dimensions. *SIAM Journal on Mathematical Analysis*, 36(5):1400–1406, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43651>.
- [Lil07] Markus Lilli. Classical solutions for nonelliptic Euler–Lagrange equations via continuation. *SIAM Journal on Mathematical Analysis*, 39(3):801–818, 2007. CO-
- DEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Lim02] H. Lim. Time discretization of transition layer dynamics in one-dimensional viscoelastic systems. *SIAM Journal on Mathematical Analysis*, 34(3):573–594, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39877>.
- [Lin03] Zhiwu Lin. Instability of some ideal plane flows. *SIAM Journal on Mathematical Analysis*, 35(2):318–356, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40626>.
- [Lip01] Robert Lipton. Optimal inequalities for gradients of solutions of elliptic equations occurring in two-phase heat conductors. *SIAM Journal on Mathematical Analysis*, 32(5):1081–1093, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36662>.

- [Lip06] **Lipton:2006:HFC**
Robert Lipton. Homogenization and field concentrations in heterogeneous media. *SIAM Journal on Mathematical Analysis*, 38(4):1048–1059, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Lip06] **Lipton:2006:HFC**
CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39582>.
- [LL05] **Lafortune:2005:SSL**
S. Lafortune and J. Lega. Spectral stability of local deformations of an elastic rod: Hamiltonian formalism. *SIAM Journal on Mathematical Analysis*, 36(6):1726–1741, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43935>.
- [LK01] **Liefvendahl:2001:SVS**
M. Liefvendahl and G. Kreiss. Stability of viscous shock waves for problems with non-symmetric viscosity matrices. *SIAM Journal on Mathematical Analysis*, 33(4):913–929, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37494>.
- [LL06] **Levandosky:2006:SSW**
Steve Levandosky and Yue Liu. Stability of solitary waves of a generalized Ostrovsky equation. *SIAM Journal on Mathematical Analysis*, 38(3):985–1011, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [LL00] **Lin:2000:VSW**
FangHua Lin and Tai-Chia Lin. Vortex state of d -wave superconductors in the Ginzburg–Landau energy. *SIAM Journal on Mathematical Analysis*, 32(3):493–503, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35352>.
- [LL03] **Lin:2003:VWS**
FangHua Lin and Tai-Chia Lin. Vortices in p -wave superconductivity. *SIAM Journal on Mathematical Analysis*, 34(5):1105–1127, 2003.
- [LLLY04] **Lan:2004:PVS**
Chiu-Ya Lan, Huey-Er Lin, Tai-Ping Liu, and Shih-Hsien Yu. Propagation of viscous shock waves away from the boundary. *SIAM Journal on Mathematical Analysis*, 36(2):580–617, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42815>.

- [LLW03] **Lachowicz:2003:OHS**
 Mirosław Lachowicz, Philippe Laurençot, and Dariusz Wrzosek. On the Oort–Hulst–Safronov coagulation equation and its relation to the Smoluchowski equation. *SIAM Journal on Mathematical Analysis*, 34(6):1399–1421, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41447>.
- [LLYZ03] **Lei:2003:TCL**
 Jinzhi Lei, Xiong Li, Ping Yan, and Meirong Zhang. Twist character of the least amplitude periodic solution of the forced pendulum. *SIAM Journal on Mathematical Analysis*, 35(4):844–867, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41037>.
- [LM08] **Li:2008:UPB**
 Congming Li and Li Ma. Uniqueness of positive bound states to Schrödinger systems with critical exponents. *SIAM Journal on Mathematical Analysis*, 40(3):1049–1057, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [LM09] **Lacave:2009:UVW**
 Christophe Lacave and Evelyne Miot. Uniqueness for the vortex-wave system when the vorticity is constant near the point vortex. *SIAM Journal on Mathematical Analysis*, 41(3):1138–1163, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [LMR08] **Lemou:2008:SLG**
 Mohammed Lemou, Florian Méhats, and Pierre Raphaël. Structure of the linearized gravitational Vlasov–Poisson system close to a polytropic ground state. *SIAM Journal on Mathematical Analysis*, 39(6):1711–1739, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Loe06] **Loeper:2006:FNV**
 G. Loeper. A fully nonlinear version of the incompressible Euler equations: The semigeostrophic system. *SIAM Journal on Mathematical Analysis*, 38(3):795–823, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Lóp00] **Lopez:2000:AES**
 José L. López. Asymptotic expansions of symmetric standard elliptic integrals. *SIAM Journal on Mathematical Analysis*, 31(4):754–775, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41037>.

[//epubs.siam.org/sam-bin/dbq/article/35117](http://epubs.siam.org/sam-bin/dbq/article/35117).

Lorenzi:2000:OSE

- [Lor00] Luca Lorenzi. Optimal Schauder estimates for parabolic problems with data measurable with respect to time. *SIAM Journal on Mathematical Analysis*, 32(3):588–615, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34284>.

Lou:2006:PRW

- [Lou06] Bendong Lou. Periodic rotating waves in an undulating annulus and their homogenization limit. *SIAM Journal on Mathematical Analysis*, 38(3):693–716, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Li:2000:MPM

- [LP00] Yi A. Li and Keith Promislow. The mechanism of the polarizational mode instability in birefringent fiber optics. *SIAM Journal on Mathematical Analysis*, 31(6):1351–1373, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34996>.

Lim:2002:IVP

- [LP02] Wee Keong Lim and Gustavo Ponce. On the initial value

problem for the one dimensional quasi-linear Schrödinger equations. *SIAM Journal on Mathematical Analysis*, 34(2):435–459, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39952>.

Lin:2007:MFI

- [LP07] Fanghua Lin and Xing-Bin Pan. Magnetic field-induced instabilities in liquid crystals. *SIAM Journal on Mathematical Analysis*, 38(5):1588–1612, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Leonori:2008:BBB

- [LP08] Tommaso Leonori and Alessio Porretta. The boundary behavior of blow-up solutions related to a stochastic control problem with state constraint. *SIAM Journal on Mathematical Analysis*, 39(4):1295–1327, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Linares:2009:WPT

- [LP09] Felipe Linares and Ademir Pastor. Well-posedness for the two-dimensional modified Zakharov–Kuznetsov equation. *SIAM Journal on Mathematical Analysis*, 41(4):1323–1339, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- [LR09] **Lototsky:2009:SPD**
Sergey V. Lototsky and Boris L. Rozovskii. Stochastic partial differential equations driven by purely spatial noise. *SIAM Journal on Mathematical Analysis*, 41(4):1295–1322, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [LRR06] **Laurent:2006:PBH**
Thomas Laurent, Brian Rider, and Michael Reed. Parabolic behavior of a hyperbolic delay equation. *SIAM Journal on Mathematical Analysis*, 38(1):1–15, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [LRRBS09] **Langa:2009:PAS**
José A. Langa, James C. Robinson, Aníbal Rodríguez-Bernal, and Antonio Suárez. Permanence and asymptotically stable complete trajectories for nonautonomous Lotka–Volterra models with diffusion. *SIAM Journal on Mathematical Analysis*, 40(6):2179–2216, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [LS00] **Lee:2000:ITP**
June-Yub Lee and Jin Keun Seo. Identification of two-phase free boundary arising in plasma physics. *SIAM Journal on Mathematical Analysis*, 31(6):1295–1306, 2000.
- [LS01] **Lombardo:2001:ZVL**
Maria Carmela Lombardo and Marco Sammartino. Zero viscosity limit of the Oseen equations in a channel. *SIAM Journal on Mathematical Analysis*, 33(2):390–410, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35118>.
- [LS02] **Lai:2002:QM**
Ming-Jun Lai and Larry L. Schumaker. Quadrilateral macroelements. *SIAM Journal on Mathematical Analysis*, 33(5):1107–1116, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37713>.
- [LS03] **Lin:2003:SSS**
Xiao-Biao Lin and Stephen Schecter. Stability of self-similar solutions of the Dafermos regularization of a system of conservation laws. *SIAM Journal on Mathematical Analysis*, 35(4):884–921, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37713>.

- `//epubs.siam.org/sam-bin/dbq/article/40502.`
- [LW08] **Liu:2001:CTC** Hailiang Liu and Eitan Tadmor. Critical thresholds in a convolution model for nonlinear conservation laws. *SIAM Journal on Mathematical Analysis*, 33(4):930–945, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38690>.
- [LW09] **Liu:2009:CRA** Jian-Guo Liu and Wei-Cheng Wang. Characterization and regularity for axisymmetric solenoidal vector fields with application to Navier–Stokes equation. *SIAM Journal on Mathematical Analysis*, 41(5):1825–1850, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [LTT03] **Liz:2003:GSC** Eduardo Liz, Victor Tkachenko, and Sergei Trofimchuk. A global stability criterion for scalar functional differential equations. *SIAM Journal on Mathematical Analysis*, 35(3):596–622, January 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [LWS05] **Laurencot:2005:SSC** Philippe Laurençot and Christoph Walker. Steady states for a coagulation-fragmentation equation with volume scattering. *SIAM Journal on Mathematical Analysis*, 37(2):531–548, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44411>.
- [Lin:2008:OSB] Tai-Chia Lin and Juncheng Wei. Orbital stability of bound states of semiclassical nonlinear Schrödinger equations with critical nonlinearity. *SIAM Journal on Mathematical Analysis*, 40(1):365–381, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Lani-Wayda:2005:DLS] Bernhard Lani-Wayda and Klaus R. Schneider. Delayed loss of stability in nonautonomous differential equations with retarded argument. *SIAM Journal on Mathematical Analysis*, 36(5):1522–1539, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40953>.
- [Luo:2000:IBC] Tao Luo, Zhouping Xin, and Tong Yang. Interface behav-

- ior of compressible Navier–Stokes equations with vacuum. *SIAM Journal on Mathematical Analysis*, 31(6):1175–1191, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/33104>.
- [LYY07] **Liang:2005:QPS**
Zhenguo Liang and Jianguo You. Quasi-periodic solutions for 1D Schrödinger equations with higher order nonlinearity. *SIAM Journal on Mathematical Analysis*, 36(6):1965–1990, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43501>.
- [LY09] **Liu:2009:GUT**
Li Liu and Hairong Yuan. Global uniqueness of transonic shocks in divergent nozzles for steady potential flows. *SIAM Journal on Mathematical Analysis*, 41(5):1816–1824, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [LYY05] **Li:2005:EPR**
Gongbao Li, Shusen Yan, and Jianfu Yang. An elliptic problem related to planar vortex pairs. *SIAM Journal on Mathematical Analysis*, 36(5):1444–1460, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43055>.
- [Lee:2007:CIF]
Yeon Ju Lee, Gang Joon Yoon, and Junggho Yoon. Convergence of increasingly flat radial basis interpolants to polynomial interpolants. *SIAM Journal on Mathematical Analysis*, 39(2):537–553, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [LZ03] **Li:2003:TZN**
Jiequan Li and Peng Zhang. The transition from Zeldovich–von Neumann–Döring to Chapman–Jouguet theories for a nonconvex scalar combustion model. *SIAM Journal on Mathematical Analysis*, 34(3):675–699, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38675>.
- [LZ05] **Lei:2005:GEC**
Zhen Lei and Yi Zhou. Global existence of classical solutions for the two-dimensional Oldroyd model via the incompressible limit. *SIAM Journal on Mathematical Analysis*, 37(3):797–814, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61881>.

- [Mac04] **Macia:2004:WMD**
 Fabricio Macià. Wigner measures in the discrete setting: High-frequency analysis of sampling and reconstruction operators. *SIAM Journal on Mathematical Analysis*, 36(2):347–383, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43152>.
- [Mal00] **Mallik:2000:SLH**
 Ranjan K. Mallik. On the solution of a linear homogeneous difference equation with variable coefficients. *SIAM Journal on Mathematical Analysis*, 31(2):375–385, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/32964>.
- [Mar06a] **Maris:2006:GBT**
 Mihai Maris. Global branches of travelling-waves to a Gross–Pitaevskii–Schrödinger system in one dimension. *SIAM Journal on Mathematical Analysis*, 37(5):1535–1559, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Mar06b] **Martel:2006:LPR**
 Yvan Martel. Linear problems related to asymptotic stability of solitons of the generalized KdV equations. *SIAM Journal on Mathematical Analysis*, 38(3):759–781, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Mar08] **Mari:2008:NST**
 Mihai Mari. Nonexistence of supersonic traveling waves for nonlinear Schrödinger equations with nonzero conditions at infinity. *SIAM Journal on Mathematical Analysis*, 40(3):1076–1103, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Mas01] **Masselin:2001:RBR**
 Vincent Masselin. A result on the blow-up rate for the Zakharov system in dimension 3. *SIAM Journal on Mathematical Analysis*, 33(2):440–447, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36368>.
- [MB08] **Mikelic:2008:AME**
 Andro Mikelić and Hans Bruining. Analysis of model equations for stress-enhanced diffusion in coal layers. Part I: Existence of a weak solution. *SIAM Journal on Mathematical Analysis*, 40(4):1671–1691, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- Miller:2001:ESM**
- [MC01] P. D. Miller and S. R. Clarke. An exactly solvable model for the interaction of linear waves with Korteweg–de Vries solitons. *SIAM Journal on Mathematical Analysis*, 33(2):261–285, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36543>.
- Marciniak-Czochra:2008:DMR**
- [MCP08] Anna Marciniak-Czochra and Mariya Ptashnyk. Derivation of a macroscopic receptor-based model using homogenization techniques. *SIAM Journal on Mathematical Analysis*, 40(1):215–237, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Mikeli:2006:RUR**
- [MDvD06] Andro Mikeli, Vincent Devigne, and C. J. van Duijn. Rigorous upscaling of the reactive flow through a pore, under dominant Peclet and Damkohler numbers. *SIAM Journal on Mathematical Analysis*, 38(4):1262–1287, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Meirmanov:2008:DSA**
- [Mei08] Anvarbek Meirmanov. A description of seismic acoustic wave propagation in porous media via homogenization. *SIAM Journal on Mathematical Analysis*, 40(3):1272–1289, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Montesinos:2005:RSN**
- [MG05] María Teresa González Montesinos and Francisco Ortegón Gallego. Renormalized solutions to a nonlinear parabolic-elliptic system. *SIAM Journal on Mathematical Analysis*, 36(6):1991–2003, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42304>.
- Menon:2001:IDG**
- [MH01] Govind Menon and György Haller. Infinite dimensional geometric singular perturbation theory for the Maxwell–Bloch equations. *SIAM Journal on Mathematical Analysis*, 33(2):315–346, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36045>.
- Mareno:2006:GCS**
- [MH06] Anita Mareno and Timothy J. Healey. Global continuation in second-gradient nonlinear elasticity. *SIAM Journal on Mathematical Analysis*, 38(1):103–115, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- [Mie04] **Mielke:2004:EMI**
Alexander Mielke. Existence of minimizers in incremental elasto-plasticity with finite strains. *SIAM Journal on Mathematical Analysis*, 36(2):384–404, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42990>.
- [Mik02] **Mikulevicius:2002:CPS**
R. Mikulevicius. On the Cauchy problem for stochastic Stokes equations. *SIAM Journal on Mathematical Analysis*, 34(1):121–141, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39031>.
- [Mik09] **Mikulevicius:2009:SSS**
R. Mikulevicius. On strong H_2^1 -solutions of stochastic Navier–Stokes equation in a bounded domain. *SIAM Journal on Mathematical Analysis*, 41(3):1206–1230, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Miz01] **Mizumachi:2001:LTA**
Tetsu Mizumachi. Large time asymptotics of solutions around solitary waves to the generalized Korteweg–de Vries equations. *SIAM Journal on Mathematical Analysis*, 32(5):1050–1080, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34682>.
- [Miz03] **Mizumachi:2003:WIB**
Tetsu Mizumachi. Weak interaction between solitary waves of the generalized KdV equations. *SIAM Journal on Mathematical Analysis*, 35(4):1042–1080, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40871>.
- [MJZ04] **Moeser:2004:SPS**
Jamison T. Moeser, Christopher K. R. T. Jones, and Vadim Zharnitsky. Stable pulse solutions for the nonlinear Schrödinger equation with higher order dispersion management. *SIAM Journal on Mathematical Analysis*, 35(6):1486–1511, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41258>.
- [MM05] **Mingione:2005:IFG**
Giuseppe Mingione and Domenico Mucci. Integral functionals and the gap problem: Sharp bounds for relaxation and energy concentration. *SIAM Journal on Mathematical Analysis*, 36(5):1540–1579,

2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42411>. [MO09]
- [MN00] Jean Maeght and Dominikus Noll. Resolution in dynamic emission tomography. *SIAM Journal on Mathematical Analysis*, 31(5):1100–1120, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34545>. [Moo02]
- [MN05] D. Mercier and S. Nicaise. Existence, uniqueness, and regularity results for piezoelectric systems. *SIAM Journal on Mathematical Analysis*, 37(2):651–672, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61772>. [MOPMW06]
- [MNR05] Marta Macrì, Margherita Nolasco, and Tonia Ricciardi. Asymptotics for selfdual vortices on the torus and on the plane: A gluing technique. *SIAM Journal on Mathematical Analysis*, 37(1):1–16, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61984>. [Mor03]
- Migorski:2009:QSH**
Stanislaw Migórski and Anna Ochal. Quasi-static hemivariational inequality via vanishing acceleration approach. *SIAM Journal on Mathematical Analysis*, 41(4):1415–1435, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Moore:2002:LTO**
K. S. Moore. Large torsional oscillations in a suspension bridge: Multiple periodic solutions to a nonlinear wave equation. *SIAM Journal on Mathematical Analysis*, 33(6):1411–1429, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38809>.
- Mackey:2006:POB**
Michael C. Mackey, Chunhua Ou, Laurent Pujon-Menjouet, and Jianhong Wu. Periodic oscillations of blood cell populations in chronic myelogenous leukemia. *SIAM Journal on Mathematical Analysis*, 38(1):166–187, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Morini:2003:SSP**
Massimiliano Morini. Sequences of singularly perturbed functionals generat-

- ing free-discontinuity problems. *SIAM Journal on Mathematical Analysis*, 35(3):759–805, January 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [MP05]
- Moser:2005:HOA**
- [Mos05] Roger Moser. A higher order asymptotic problem related to phase transitions. *SIAM Journal on Mathematical Analysis*, 37(3):712–736, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61676>.
- Marcati:2001:DPS** [MP08]
- [MP01] Pierangelo Marcati and Ronghua Pan. On the diffusive profiles for the system of compressible adiabatic flow through porous media. *SIAM Journal on Mathematical Analysis*, 33(4):790–826, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36440>. [MPP09]
- Makridakis:2003:ORC**
- [MP03] Charalambos Makridakis and Benoît Perthame. Optimal rate of convergence for anisotropic vanishing viscosity limit of a scalar balance law. *SIAM Journal on Mathematical Analysis*, 34(6):1300–1307, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40799>. [Menon:2005:DSS]
- Menon:2005:DSS**
- Govind Menon and Robert L. Pego. Dynamical scaling in Smoluchowski’s coagulation equations: Uniform convergence. *SIAM Journal on Mathematical Analysis*, 36(5):1629–1651, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43026>.
- Marigo:2008:FDM**
- Alessia Marigo and Benedetto Piccoli. A fluid dynamic model for T -junctions. *SIAM Journal on Mathematical Analysis*, 39(6):2016–2032, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Mielke:2009:EAM**
- Alexander Mielke, Laetitia Paoli, and Adrien Petrov. On existence and approximation for a 3D model of thermally induced phase transformations in shape-memory alloys. *SIAM Journal on Mathematical Analysis*, 41(4):1388–1414, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Morales:2005:ELA**
- [MPS05] C. A. Morales, M. J. Pacifico, and B. San Martin. Expanding

- Lorenz attractors through resonant double homoclinic loops. *SIAM Journal on Mathematical Analysis*, 36(6):1836–1861, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41578>. [MR08]
- [MPS06] C. A. Morales, M. J. Pacifico, and B. San Martin. Contracting Lorenz attractors through resonant double homoclinic loops. *SIAM Journal on Mathematical Analysis*, 38(1):309–332, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). **Morales:2006:CLA**
- [MR02] Luc Molinet and Francis Ribaud. The global Cauchy problem in Bourgain’s-type spaces for a dispersive dissipative semilinear equation. *SIAM Journal on Mathematical Analysis*, 33(6):1269–1296, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37463>. **Molinet:2002:GCP**
- [MR04] R. Mikulevicius and B. L. Rozovskii. Stochastic Navier–Stokes equations for turbulent flows. *SIAM Journal on Mathematical Analysis*, 35(5):1250–1310, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40916>. **Mucha:2008:NLE**
- Piotr B. Mucha and Piotr Rybka. A new look at equilibria in Stefan-type problems in the plane. *SIAM Journal on Mathematical Analysis*, 39(4):1120–1134, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). **Mucha:2008:NLE**
- [MS04] John V. MattheWs and David G. Schaeffer. A well-posed free boundary value problem for a hyperbolic equation with Dirichlet boundary conditions. *SIAM Journal on Mathematical Analysis*, 36(1):256–271, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40870>. **MattheWs:2004:WPF**
- [MS06] Jason Metcalfe and Christopher D. Sogge. Long-time existence of quasilinear wave equations exterior to star-shaped obstacles via energy methods. *SIAM Journal on Mathematical Analysis*, 38(1):188–209, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). **Metcalfe:2006:LTE**

- [MST01] **Molinet:2001:IPI**
L. Molinet, J. C. Saut, and N. Tzvetkov. Ill-posedness issues for the Benjamin–Ono and related equations. *SIAM Journal on Mathematical Analysis*, 33(4):982–988, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38530>.
- [MST07] **Molinet:2007:RMC**
L. Molinet, J. C. Saut, and N. Tzvetkov. Remarks on the mass constraint for KP-type equations. *SIAM Journal on Mathematical Analysis*, 39(2):627–641, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [MT03] **Magnanini:2003:CVS**
Rolando Magnanini and Giorgio Talenti. On complex-valued solutions to a two-dimensional eikonal equation. II. existence theorems. *SIAM Journal on Mathematical Analysis*, 34(4):805–835, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40087>.
- [MT07a] **Masmoudi:2007:DLS**
Nader Masmoudi and Mohamed Lazhar Tayeb. Diffusion limit of a semiconductor Boltzmann–Poisson system. *SIAM Journal on Mathematical Analysis*, 38(6):1788–1807, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [MT07b] **Mielke:2007:TSH**
Alexander Mielke and Aida M. Timofte. Two-scale homogenization for evolutionary variational inequalities via the energetic formulation. *SIAM Journal on Mathematical Analysis*, 39(2):642–668, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [MT08] **Molinet:2008:NLW**
Luc Molinet and Raafat Talhouk. Newtonian limit for weakly viscoelastic fluid flows of Oldroyd type. *SIAM Journal on Mathematical Analysis*, 39(5):1577–1594, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [MT09] **Morita:2009:ESL**
Yoshihisa Morita and Koichi Tachibana. An entire solution to the Lotka–Volterra competition–diffusion equations. *SIAM Journal on Mathematical Analysis*, 40(6):2217–2240, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Mus05] **Mustafa:2005:EUS**
Octavian G. Mustafa. Existence and uniqueness of solu-

tions with low regularity for a class of nonlinear dispersive equations. *SIAM Journal on Mathematical Analysis*, 37(4):1117–1130, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61239>.

Medville:2005:BBP

- [MV05] Kai Medville and Michael Vogelius. Blow-up behavior of planar harmonic functions satisfying a certain exponential Neumann boundary condition. *SIAM Journal on Mathematical Analysis*, 36(6):1772–1806, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43609>.

Madureira:2007:APP

- [MV07] Alexandre L. Madureira and Frédéric Valentin. Asymptotics of the Poisson problem in domains with curved rough boundaries. *SIAM Journal on Mathematical Analysis*, 38(5):1450–1473, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Mellet:2008:EUG

- [MV08] A. Mellet and A. Vasseur. Existence and uniqueness of global strong solutions for one-dimensional compressible Navier–Stokes equations.

SIAM Journal on Mathematical Analysis, 39(4):1344–1365, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Munoz-Villarragut:2008:NFD

- [MVNO08] Víctor Muñoz-Villarragut, Sylvia Novo, and Rafael Obaya. Neutral functional differential equations with applications to compartmental systems. *SIAM Journal on Mathematical Analysis*, 40(3):1003–1028, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Martinez:2009:SPP

- [MW09] Sandra Martínez and Noemi Wolanski. A singular perturbation problem for a quasi-linear operator satisfying the natural growth condition of Lieberman. *SIAM Journal on Mathematical Analysis*, 41(1):318–359, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Magal:2005:GAS

- [MZ05a] Pierre Magal and Xiao-Qiang Zhao. Global attractors and steady states for uniformly persistent dynamical systems. *SIAM Journal on Mathematical Analysis*, 37(1):251–275, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43917>.

- [MZ05b] **Mascia:2005:SLA**
 Corrado Mascia and Kevin Zumbrun. Stability of large-amplitude shock profiles of general relaxation systems. *SIAM Journal on Mathematical Analysis*, 37(3):889–913, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43584>.
- [Nak01] **Nakanishi:2001:AFS**
 Kenji Nakanishi. Asymptotically-free solutions for the short-range nonlinear Schrödinger equation. *SIAM Journal on Mathematical Analysis*, 32(6):1265–1271, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36908>.
- [Nak03] **Nakamura:2003:ADT**
 Tohru Nakamura. Asymptotic decay toward the rarefaction waves of solutions for viscous conservation laws in a one-dimensional half space. *SIAM Journal on Mathematical Analysis*, 34(6):1308–1317, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40693>.
- [Nar08] **Nara:2008:LTB**
 Mitsunori Nara. Large time behavior of radially symmetric surfaces in the mean curvature flow. *SIAM Journal on Mathematical Analysis*, 39(6):1978–1995, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Nes07] **Nesenenko:2007:HV**
 Sergiy Nesenenko. Homogenization in viscoplasticity. *SIAM Journal on Mathematical Analysis*, 39(1):236–262, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Nik01] **Nikolov:2001:IDS**
 Geno Nikolov. Inequalities of Duffin–Schaeffer type. *SIAM Journal on Mathematical Analysis*, 33(3):686–698, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37391>.
- [Nis02] **Nishibata:2002:AST**
 Shinya Nishibata. Asymptotic stability of traveling waves to a certain discrete velocity model of the Boltzmann equation in the half space. *SIAM Journal on Mathematical Analysis*, 34(3):555–572, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39068>.

- [NK08] **Neff:2008:RBN**
 Patrizio Neff and Dorothee Knees. Regularity up to the boundary for nonlinear elliptic systems arising in time-incremental infinitesimal elasto-plasticity. *SIAM Journal on Mathematical Analysis*, 40(1):21–43, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [NN01] **Nishihara:2001:ABS**
 Kenji Nishihara and Masataka Nishikawa. Asymptotic behavior of solutions to the system of compressible adiabatic flow through porous media. *SIAM Journal on Mathematical Analysis*, 33(1):216–239, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36467>.
- [NN09] **Nakamura:2009:CRT**
 Tohru Nakamura and Shinya Nishibata. Convergence rate toward planar stationary waves for compressible viscous fluid in multidimensional half space. *SIAM Journal on Mathematical Analysis*, 41(5):1757–1791, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Nob09] **Noble:2009:PRW**
 Pascal Noble. Persistence of roll waves for the Saint Venant equations. *SIAM Journal on Mathematical Analysis*, 40(5):1783–1814, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [NOV09] **Novo:2009:EON**
 Sylvia Novo, Rafael Obaya, and Víctor M. Villarragut. Exponential ordering for nonautonomous neutral functional differential equations. *SIAM Journal on Mathematical Analysis*, 41(3):1025–1053, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [NP00] **Niethammer:2000:IVP**
 Barbara Niethammer and Robert L. Pego. On the initial-value problem in the Lifshitz–Slyozov–Wagner theory of Ostwald ripening. *SIAM Journal on Mathematical Analysis*, 31(3):467–485, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/33821>.
- [NPW06] **Narcowich:2006:LTF**
 F. J. Narcowich, P. Petrushev, and J. D. Ward. Localized tight frames on spheres. *SIAM Journal on Mathematical Analysis*, 38(2):574–594, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- [NRJ07] **Neuss-Radu:2007:ETC**
 Maria Neuss-Radu and Willi Jäger. Effective transmission conditions for reaction-diffusion processes in domains separated by an interface. *SIAM Journal on Mathematical Analysis*, 39(3):687–720, ??? 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [NS04] **Nishiura:2004:HDS**
 Yasumasa Nishiura and Hiromasa Suzuki. Higher dimensional SLEP equation and applications to morphological stability in polymer problems. *SIAM Journal on Mathematical Analysis*, 36(3):916–966, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42015>.
- [NS05] **Neumann:2005:CGE**
 Lukas Neumann and Christian Schmeiser. Convergence to global equilibrium for a kinetic fermion model. *SIAM Journal on Mathematical Analysis*, 36(5):1652–1663, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43653>.
- [NS07] **Nakamura:2007:OBD**
 Gen Nakamura and Mourad Sini. Obstacle and bound-
- ary determination from scattering data. *SIAM Journal on Mathematical Analysis*, 39(3):819–837, ??? 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [NS09] **Natile:2009:WAO**
 Luca Natile and Giuseppe Savaré. A Wasserstein approach to the one-dimensional sticky particle system. *SIAM Journal on Mathematical Analysis*, 41(4):1340–1365, ??? 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [NT08] **Nguyen:2008:PEE**
 Truyen Nguyen and Adrian Tudorascu. Pressureless Euler/Euler–Poisson systems via adhesion dynamics and scalar conservation laws. *SIAM Journal on Mathematical Analysis*, 40(2):754–775, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [NW02] **Narcowich:2002:SDI**
 Francis J. Narcowich and Joseph D. Ward. Scattered data interpolation on spheres: Error estimates and locally supported basis functions. *SIAM Journal on Mathematical Analysis*, 33(6):1393–1410, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42015>.

- [//epubs.siam.org/sam-bin/dbq/article/39505](http://epubs.siam.org/sam-bin/dbq/article/39505).
- [NW03] Gen Nakamura and Jenn-Nan Wang. Unique continuation for an elasticity system with residual stress and its applications. *SIAM Journal on Mathematical Analysis*, 35(2):304–317, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39974>.
- [NW04] Francis J. Narcowich and Joseph D. Ward. Scattered-data interpolation on \mathbf{R}^n : Error estimates for radial basis and band-limited functions. *SIAM Journal on Mathematical Analysis*, 36(1):284–300, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41357>.
- [NYZ04] Kenji Nishihara, Tong Yang, and Huijiang Zhao. Nonlinear stability of strong rarefaction waves for compressible Navier–Stokes equations. *SIAM Journal on Mathematical Analysis*, 35(6):1561–1597, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42735>.
- [O’D08] Stephen O’Dell. Inverse scattering for Schrödinger-type operators with interface conditions across smooth surfaces. *SIAM Journal on Mathematical Analysis*, 39(5):1595–1626, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Oga03] Takayoshi Ogawa. Sharp Sobolev inequality of logarithmic type and the limiting regularity condition to the harmonic heat flow. *SIAM Journal on Mathematical Analysis*, 34(6):1318–1330, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39586>.
- [ORS06] Felix Otto, Tobias Rump, and Dejan Slepcev. Coarsening rates for a droplet model: Rigorous upper bounds. *SIAM Journal on Mathematical Analysis*, 38(2):503–529, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Ort06] Christoph Ortner. Gradient flows as a selection procedure for equilibria of nonconvex energies. *SIAM Journal on Mathematical Analysis*, 38(4):1214–1234, January 2006. CODEN

- SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Oshita:2004:SSP**
- [Osh04] Yoshihito Oshita. Stable stationary patterns and interfaces arising in reaction-diffusion systems. *SIAM Journal on Mathematical Analysis*, 36(2):479–497, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40672>.
- Oshita:2007:SLP**
- [Osh07] Yoshihito Oshita. Singular limit problem for some elliptic systems. *SIAM Journal on Mathematical Analysis*, 38(6):1886–1911, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Ohta:2007:SIS**
- [OT07] Masahito Ohta and Grozdna Todorova. Strong instability of standing waves for the nonlinear Klein–Gordon equation and the Klein–Gordon–Zakharov system. *SIAM Journal on Mathematical Analysis*, 38(6):1912–1931, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Otto:2005:ECC**
- [OW05] Felix Otto and Michael Westdickenberg. Eulerian calculus for the contraction
- in the Wasserstein distance. *SIAM Journal on Mathematical Analysis*, 37(4):1227–1255, January 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Ou:2007:TWD**
- [OW07] Chunhua Ou and Jianhong Wu. Traveling wavefronts in a delayed food-limited population model. *SIAM Journal on Mathematical Analysis*, 39(1):103–125, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Palamodov:2009:RDF**
- [Pal09] Victor Palamodov. Reconstruction of a differential form from Doppler Transform. *SIAM Journal on Mathematical Analysis*, 41(4):1713–1720, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Pan:2003:SFP**
- [Pan03] Xing-Bin Pan. Superconducting films in perpendicular fields and the effect of the de Gennes parameter. *SIAM Journal on Mathematical Analysis*, 34(4):957–991, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40673>.

- [Pan06] **Pan:2006:LGM** Xing-Bin Pan. Landau–de Gennes model of liquid crystals with small Ginzburg–Landau parameter. *SIAM Journal on Mathematical Analysis*, 37(5): 1616–1648, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Pan09] **Panov:2009:WCS** Evgeniy Panov. On weak completeness of the set of entropy solutions to a scalar conservation law. *SIAM Journal on Mathematical Analysis*, 41(1): 26–36, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Ped00] **Pedregal:2000:ODC** Pablo Pedregal. Optimal design and constrained quasi-convexity. *SIAM Journal on Mathematical Analysis*, 32(4):854–869, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35650>.
- [Ped04] **Pedregal:2004:CTY** Pablo Pedregal. Γ -convergence through Young measures. *SIAM Journal on Mathematical Analysis*, 36(2):423–440, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42569>.
- [Ped06] **Pedregal:2006:YMA** Pablo Pedregal. Young measures associated with homogenization. *SIAM Journal on Mathematical Analysis*, 37(5): 1454–1464, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Pel01] **Peletier:2001:SBV** Mark A. Peletier. Sequential buckling: A variational analysis. *SIAM Journal on Mathematical Analysis*, 32(5): 1142–1168, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35992>.
- [Per06] **Perepelitsa:2006:GEW** Mikhail Perepelitsa. On the global existence of weak solutions for the Navier–Stokes equations of compressible fluid flows. *SIAM Journal on Mathematical Analysis*, 38(4):1126–1153, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Pin00] **Pinezich:2000:PST** J. D. Pinezich. Periodic structure in two-dimensional Riemann problems for Hamilton–Jacobi equations. *SIAM Journal on Mathematical Analysis*, 32(3):688–706, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- URL <http://epubs.siam.org/sam-bin/dbq/article/34214>.
- [Pis04] **Pisante:2004:SCE**
Giovanni Pisante. Sufficient conditions for the existence of viscosity solutions for nonconvex Hamiltonians. *SIAM Journal on Mathematical Analysis*, 36(1):186–203, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42690>.
- [Piv00] **Pivovarchik:2000:IPS**
Vyacheslav Pivovarchik. Inverse problem for the Sturm–Liouville equation on a simple graph. *SIAM Journal on Mathematical Analysis*, 32(4):801–819, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36824>.
- [Pla09a] **Plakhov:2009:BSR**
Alexander Plakhov. Billiard scattering on rough sets: Two-dimensional case. *SIAM Journal on Mathematical Analysis*, 40(6):2155–2178, ??? 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Pla09b] **Plakhov:2009:CFD**
Alexander Plakhov. Comment on “Functions and Domains Having Minimal Resistance Under a Single-Impact Assumption” [SIAM J. Math. Anal., 34 (2002), pp. 101–120]. *SIAM Journal on Mathematical Analysis*, 41(4):1721–1724, ??? 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). See [CLR02].
- [PLN02] **Pan:2002:ABO**
Tao Pan, Hongxia Liu, and Kenji Nishihara. Asymptotic behavior of a one-dimensional compressible viscous gas with free boundary. *SIAM Journal on Mathematical Analysis*, 34(2):273–291, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38574>.
- [PN08] **Pava:2008:PPF**
Jaime Angulo Pava and Fábio M. A. Natali. Positivity properties of the Fourier transform and the stability of periodic travelling-wave solutions. *SIAM Journal on Mathematical Analysis*, 40(3):1123–1151, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Pon07] **Ponsiglione:2007:EES**
Marcello Ponsiglione. Elastic energy stored in a crystal induced by screw dislocations: From discrete to continuous. *SIAM Journal on Mathematical Analysis*, 39(2):449–469, ??? 2007. CODEN SJMAAH. ISSN 0036-

- 1410 (print), 1095-7154 (electronic).
- [Pot07] Roland Potthast. On the convergence of the no response test. *SIAM Journal on Mathematical Analysis*, 38(6):1808–1824, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [PP00a] Carlo D. Pagani and Dario Pierotti. On solvability of the nonlinear wave resistance problem for a surface-piercing symmetric cylinder. *SIAM Journal on Mathematical Analysis*, 32(1):214–233, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34814>.
- [PP00b] L. E. Payne and G. A. Philippin. On the spatial decay of solutions to a quasi-linear parabolic initial-boundary value problem and their derivatives. *SIAM Journal on Mathematical Analysis*, 32(2):291–303, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35651>.
- [PP03] Andrea Pascucci and Sergio Polidoro. On the Cauchy problem for a nonlinear Kolmogorov equation. *SIAM Journal on Mathematical Analysis*, 35(3):579–595, January 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [PP04] Carlo D. Pagani and Dario Pierotti. The subcritical motion of a semisubmerged body: Solvability of the free boundary problem. *SIAM Journal on Mathematical Analysis*, 36(1):69–93, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42598>.
- [PR01] Andrey Piatnitski and Elisabeth Remy. Homogenization of elliptic difference operators. *SIAM Journal on Mathematical Analysis*, 33(1):53–83, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/33808>.
- [Pro00] Vladimir Protasov. A complete solution characterizing smooth refinable functions. *SIAM Journal on Mathematical Analysis*, 31(6):1332–1350, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35651>.

- [//epubs.siam.org/sam-bin/dbq/article/34296](http://epubs.siam.org/sam-bin/dbq/article/34296).
- [Pro01] **Protasov:2001:SSO**
Vladimir Protasov. The stability of subdivision operator at its fixed point. *SIAM Journal on Mathematical Analysis*, 33(2):448–460, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35628>.
- [Pro02] **Promislow:2002:RMM**
Keith Promislow. A renormalization method for modulational stability of quasi-steady patterns in dispersive systems. *SIAM Journal on Mathematical Analysis*, 33(6):1455–1482, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37754>.
- [PRS08] **Plotnikov:2008:IBV**
P. I. Plotnikov, E. V. Ruban, and J. Sokolowski. Inhomogeneous boundary value problems for compressible Navier–Stokes equations: Well-posedness and sensitivity analysis. *SIAM Journal on Mathematical Analysis*, 40(3):1152–1200, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [PS00] **Peherstorfer:2000:SAO**
Franz Peherstorfer and Robert Steinbauer. Strong asymptotics of orthonormal polynomials with the aid of Green’s function. *SIAM Journal on Mathematical Analysis*, 32(2):385–402, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34304>.
- [PS06] **Pucci:2006:DCB**
Patrizia Pucci and James Serrin. Dead cores and bursts for quasilinear singular elliptic equations. *SIAM Journal on Mathematical Analysis*, 38(1):259–278, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [PS08a] **Paivarinta:2008:TE**
Lassi Päivärinta and John Sylvester. Transmission eigenvalues. *SIAM Journal on Mathematical Analysis*, 40(2):738–753, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [PS08b] **Pruss:2008:SES**
Jan Prüss and Gieri Simonett. Stability of equilibria for the Stefan problem with surface tension. *SIAM Journal on Mathematical Analysis*, 40(2):675–698, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

- [PS09a] **Parini:2009:PPP**
Enea Parini and Athanasios Stylianou. On the positivity preserving property of hinged plates. *SIAM Journal on Mathematical Analysis*, 41(5):2031–2037, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [PS09b] **Petrov:2009:MRE**
Adrien Petrov and Michelle Schatzman. Mathematical results on existence for viscoelastodynamic problems with unilateral constraints. *SIAM Journal on Mathematical Analysis*, 40(5):1882–1904, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [PSF05] **Pennacchio:2005:MMB**
Micol Pennacchio, Giuseppe Savaré, and Piero Colli Franzone. Multiscale modeling for the bioelectric activity of the heart. *SIAM Journal on Mathematical Analysis*, 37(4):1333–1370, January 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [PV05] **Petrosyan:2005:DED**
Arshak Petrosyan and Enrico Valdinoci. Density estimates for a degenerate/singular phase-transition model. *SIAM Journal on Mathematical Analysis*, 36(4):1057–1079, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43767>.
- [PW08] **Peng:2008:RDI**
Yue-Jun Peng and Shu Wang. Rigorous derivation of incompressible e-MHD equations from compressible Euler–Maxwell equations. *SIAM Journal on Mathematical Analysis*, 40(2):540–565, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [QT05] **Qian:2005:PML**
Dingbian Qian and Pedro J. Torres. Periodic motions of linear impact oscillators via the successor map. *SIAM Journal on Mathematical Analysis*, 36(6):1707–1725, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43771>.
- [QW00] **Qiu:2000:UAF**
W.-Y. Qiu and R. Wong. Uniform asymptotic formula for orthogonal polynomials with exponential weight. *SIAM Journal on Mathematical Analysis*, 31(5):992–1029, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34467>.

- [QW09] **Qin:2009:SWP**
 Xiaohong Qin and Yi Wang. Stability of wave patterns to the inflow problem of full compressible Navier–Stokes equations. *SIAM Journal on Mathematical Analysis*, 41(5):2057–2087, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [QXM08] **Qin:2008:SSW**
 Wen-Xin Qin, Chun-Lan Xu, and Xin Ma. Stability of single-wave-form solutions in the underdamped Frenkel–Kontorova model. *SIAM Journal on Mathematical Analysis*, 40(3):952–967, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Red02] **Reddien:2002:PTT**
 G. W. Reddien. Path-tracking through singularities. *SIAM Journal on Mathematical Analysis*, 33(6):1305–1319, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37387>.
- [Rei01] **Rein:2001:RCC**
 Gerhard Rein. Reduction and a concentration-compactness principle for energy-Casimir functionals. *SIAM Journal on Mathematical Analysis*, 33(4):896–912, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38927>.
- [Ren00] **Renato:2000:NFS**
 Manfrin Renato. A note on the formation of singularities for quasi-linear hyperbolic systems. *SIAM Journal on Mathematical Analysis*, 32(2):261–290, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34152>.
- [Ren06] **Renard:2006:UCS**
 Yves Renard. A uniqueness criterion for the Signorini problem with Coulomb friction. *SIAM Journal on Mathematical Analysis*, 38(2):452–467, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Ria04] **Riaza:2004:ADD**
 Ricardo Riaza. Attraction domains of degenerate singular equilibria in quasi-linear ODEs. *SIAM Journal on Mathematical Analysis*, 36(2):678–690, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42500>.
- [Rie03] **Rieger:2003:YMS**
 Marc Oliver Rieger. Young measure solutions for nonconvex elastodynamics. *SIAM*

Journal on Mathematical Analysis, 34(6):1380–1398, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39214>.

Rigot:2006:QPP

[Rig06]

S everine Rigot. Quasiminimal partitions with prescribed measure. *SIAM Journal on Mathematical Analysis*, 37(5):1589–1615, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Rybka:2005:EEM

[RL05]

Piotr Rybka and Mitchell Luskin. Existence of energy minimizers for magnetostrictive materials. *SIAM Journal on Mathematical Analysis*, 36(6):2004–2019, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44202>.

Rohwer:2006:DPT

[RL06]

C. H. Rohwer and D. P. Laurie. The discrete pulse transform. *SIAM Journal on Mathematical Analysis*, 38(3):1012–1034, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Robinson:2000:NLA

[Rob00]

Clark Robinson. Non-symmetric Lorenz attractors

from a homoclinic bifurcation. *SIAM Journal on Mathematical Analysis*, 32(1):119–141, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34359>.

Robinson:2004:SEN

[Rob04]

Stephen B. Robinson. On the second eigenvalue for non-homogeneous quasi-linear operators. *SIAM Journal on Mathematical Analysis*, 35(5):1241–1249, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42600>.

Roger:2005:EWS

[R og05]

Matthias R oger. Existence of weak solutions for the Mullins–Sekerka flow. *SIAM Journal on Mathematical Analysis*, 37(1):291–301, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43964>.

Rohde:2005:SCL

[Roh05]

Christian Rohde. Scalar conservation laws with mixed local and nonlocal diffusion-dispersion terms. *SIAM Journal on Mathematical Analysis*, 37(1):103–129, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

URL <http://epubs.siam.org/sam-bin/dbq/article/44330>.

Rondi:2005:OSR

- [Ron05] Luca Rondi. Optimal stability of reconstruction of plane Lipschitz cracks. *SIAM Journal on Mathematical Analysis*, 36(4):1282–1292, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43583>.

Rousset:2003:VAS

- [Rou03] Frederic Rousset. Viscous approximation of strong shocks of systems of conservation laws. *SIAM Journal on Mathematical Analysis*, 35(2):492–519, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40311>.

Rousset:2006:CIP

- [Rou06] Mathias Rousset. On the control of an interacting particle estimation of Schrödinger ground states. *SIAM Journal on Mathematical Analysis*, 38(3):824–844, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Roubicek:2007:IIN

- [Rou07] Tomáš Roubíček. Incompressible ionized non-Newtonian fluid mixtures. *SIAM Journal*

on Mathematical Analysis, 39(3):863–890, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Resnikoff:2001:BWS

- [RTW01] Howard L. Resnikoff, Jun Tian, and Raymond O. Wells, Jr. Biorthogonal wavelet space: Parametrization and factorization. *SIAM Journal on Mathematical Analysis*, 33(1):194–215, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36036>.

Ren:2000:MST

- [RW00a] Xiaofeng Ren and Juncheng Wei. On the multiplicity of solutions of two non-local variational problems. *SIAM Journal on Mathematical Analysis*, 31(4):909–924, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34817>.

Ruskai:2000:SCR

- [RW00b] Mary Beth Ruskai and Elisabeth Werner. Study of a class of regularizations of $1/|x|$ using Gaussian integrals. *SIAM Journal on Mathematical Analysis*, 32(2):435–463, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34817>.

[//epubs.siam.org/sam-bin/dbq/article/35375](http://epubs.siam.org/sam-bin/dbq/article/35375).

Ren:2003:STD

- [RW03] Xiaofeng Ren and Juncheng Wei. On the spectra of three-dimensional lamellar solutions of the diblock copolymer problem. *SIAM Journal on Mathematical Analysis*, 35(1):1–32, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41334>.

Ren:2005:WLS

- [RW05] Xiaofeng Ren and Juncheng Wei. Wriggled lamellar solutions and their stability in the diblock copolymer problem. *SIAM Journal on Mathematical Analysis*, 37(2):455–489, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43358>.

Ren:2008:SSN

- [RW08] Xiaofeng Ren and Juncheng Wei. Spherical solutions to a nonlocal free boundary problem from diblock copolymer morphology. *SIAM Journal on Mathematical Analysis*, 39(5):1497–1535, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Rybkin:2001:TAI

[Ryb01]

Alexei Rybkin. On the trace approach to the inverse scattering problem in dimension one. *SIAM Journal on Mathematical Analysis*, 32(6):1248–1264, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36562>.

Sacchetti:2004:NTD

[Sac04]

Andrea Sacchetti. Non-linear time-dependent one-dimensional Schrödinger equation with double-well potential. *SIAM Journal on Mathematical Analysis*, 35(5):1160–1176, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41543>.

Sangalli:2005:UAN

[San05]

Giancarlo Sangalli. A uniform analysis of nonsymmetric and coercive linear operators. *SIAM Journal on Mathematical Analysis*, 36(6):2033–2048, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43499>.

Schatzman:2000:SRP

[Sch00]

Michelle Schatzman. Stability with respect to pseudodifferential perturbations of some

- nonlinear diffusive equations. *SIAM Journal on Mathematical Analysis*, 32(3):637–650, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35786>. [Sch09]
- [Sch02] Sebastian J. Schreiber. Permanence of weakly coupled vector fields. *SIAM Journal on Mathematical Analysis*, 33(5):1048–1057, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38743>. [Sin06]
- [Sch05] Ben Schweizer. Laws for the capillary pressure in a deterministic model for fronts in porous media. *SIAM Journal on Mathematical Analysis*, 36(5):1489–1521, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42305>. [Sle08]
- [Sch08] Ben Schweizer. Homogenization of degenerate two-phase flow equations with oil trapping. *SIAM Journal on Mathematical Analysis*, 39(6):1740–1763, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [Spi03]
- Schonbek:2009:EDP**
Maria E. Schonbek. Existence and decay of polymeric flows. *SIAM Journal on Mathematical Analysis*, 41(2):564–587, ??? 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Sincich:2006:SDS**
E. Sincich. Stable determination of the surface impedance of an obstacle by far field measurements. *SIAM Journal on Mathematical Analysis*, 38(2):434–451, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Slepcev:2008:CNI**
Dejan Slepčev. Coarsening in nonlocal interfacial systems. *SIAM Journal on Mathematical Analysis*, 40(3):1029–1048, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Shen:2007:OTV**
Wen Shen and Mee Rea Park. Optimal tracing of viscous shocks in solutions of viscous conservation laws. *SIAM Journal on Mathematical Analysis*, 38(5):1474–1488, ??? 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Spirn:2003:VML**
Daniel Spirn. Vortex motion law for the Schrödinger–

- Ginzburg–Landau equations. *SIAM Journal on Mathematical Analysis*, 34(6):1435–1476, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39666>. [SS08]
- Saint-Raymond:2009:WCM**
- [SR09] Laure Saint-Raymond. Weak compactness methods for singular penalization problems with boundary layers. *SIAM Journal on Mathematical Analysis*, 41(1):153–177, ??? 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Sandier:2003:DBS**
- [SS03a] Etienne Sandier and Sylvia Serfaty. The decrease of bulk-superconductivity close to the second critical field in the Ginzburg–Landau model. *SIAM Journal on Mathematical Analysis*, 34(4):939–956, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40608>.
- Schonbek:2003:ABD**
- [SS03b] Maria E. Schonbek and Tomas P. Schonbek. Asymptotic behavior to dissipative quasi-geostrophic flows. *SIAM Journal on Mathematical Analysis*, 35(2):357–375, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- URL <http://epubs.siam.org/sam-bin/dbq/article/40936>.
- Sandstede:2008:HBV**
- Björn Sandstede and Arnd Scheel. Hopf bifurcation from viscous shock waves. *SIAM Journal on Mathematical Analysis*, 39(6):2033–2052, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Salem:2009:SAS**
- [SS09a] Walid K. Abou Salem and Catherine Sulem. Stochastic acceleration of solitons for the nonlinear Schrödinger equation. *SIAM Journal on Mathematical Analysis*, 41(1):117–152, ??? 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Simpson:2009:AEN**
- [SS09b] Henry C. Simpson and Scott J. Spector. Applications of estimates near the boundary to regularity of solutions in linearized elasticity. *SIAM Journal on Mathematical Analysis*, 41(3):923–935, ??? 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Sideris:2001:GES**
- [ST01] Thomas C. Sideris and Shu-Yi Tu. Global existence for systems of nonlinear wave equations in 3D with multiple speeds. *SIAM Journal*

- on *Mathematical Analysis*, 33 (2):477–488, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37896>. [Ste08]
- Saxton:2008:GES**
- [ST08] Ralph Saxton and Feride Tiğlay. Global existence of some infinite energy solutions for a perfect incompressible fluid. *SIAM Journal on Mathematical Analysis*, 40(4):1499–1515, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [Sti00]
- Stiefenhofer:2000:USP**
- Matthias Stiefenhofer. Unfolding singularly perturbed Bogdanov points. *SIAM Journal on Mathematical Analysis*, 32(4):820–853, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/33423>.
- Stiefenhofer:2000:USP**
- Stevenson:2004:COW**
- [Ste04] Rob Stevenson. On the compressibility of operators in wavelet coordinates. *SIAM Journal on Mathematical Analysis*, 35(5):1110–1132, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41152>. [STZ02]
- Stefanelli:2005:ATM**
- [Ste05] Ulisse Stefanelli. Analysis of a thermomechanical model for shape memory alloys. *SIAM Journal on Mathematical Analysis*, 37(1):130–155, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44425>. [Sug09]
- Stefanelli:2008:VPH**
- Ulisse Stefanelli. A variational principle for hardening elastoplasticity. *SIAM Journal on Mathematical Analysis*, 40(2):623–652, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- So:2002:SLD**
- [STZ02] Joseph W.-H. So, Xianhua Tang, and Xingfu Zou. Stability in a linear delay system without instantaneous negative feedback. *SIAM Journal on Mathematical Analysis*, 33(6):1297–1304, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38926>.
- Sugiyama:2009:RTA**
- [Sug09] Yoshie Sugiyama. On ε -regularity theorem and asymptotic behaviors of solutions for Keller–Segel systems. *SIAM Journal on Mathematical Analysis*, 41(4):1664–1692, 2009.

2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Sun01] **Sun:2001:ELA**
S. M. Sun. Existence of large amplitude periodic waves in two-fluid flows of infinite depth. *SIAM Journal on Mathematical Analysis*, 32(5):1014–1031, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35272>.
- [Sun07] **Sun:2007:NAS**
Qiyu Sun. Nonuniform average sampling and reconstruction of signals with finite rate of innovation. *SIAM Journal on Mathematical Analysis*, 38(5):1389–1422, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [SW08] **Simpson:2008:ASA**
Gideon Simpson and Michael I. Weinstein. Asymptotic stability of ascending solitary magma waves. *SIAM Journal on Mathematical Analysis*, 40(4):1337–1391, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [SW09] **Santra:2009:HSF**
Sanjiban Santra and Juncheng Wei. Homoclinic solutions for fourth order traveling wave equations. *SIAM Journal on Mathematical Analysis*, 41(5):2038–2056, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [SZ00] **Smith:2000:GAS**
Hal L. Smith and Xiao-Qiang Zhao. Global asymptotic stability of traveling waves in delayed reaction-diffusion equations. *SIAM Journal on Mathematical Analysis*, 31(3):514–534, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34678>.
- [SZ04] **Swanson:2004:IWD**
David Swanson and William P. Ziemer. The image of a weakly differentiable mapping. *SIAM Journal on Mathematical Analysis*, 35(5):1099–1109, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41206>.
- [SZ05] **Stuart:2005:ATM**
Charles A. Stuart and Huan-Song Zhou. Axisymmetric TE-modes in a self-focusing dielectric. *SIAM Journal on Mathematical Analysis*, 37(1):218–237, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44175>.

- [SZ07] **Seregin:2007:SCR**
G. Seregin and W. Zajączkowski. A sufficient condition of regularity for axially symmetric solutions to the Navier–Stokes equations. *SIAM Journal on Mathematical Analysis*, 39(2):669–685, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [SZ09] **Schwetlick:2009:EDP**
Hartmut Schwetlick and Johannes Zimmer. Existence of dynamic phase transitions in a one-dimensional lattice model with piecewise quadratic interaction potential. *SIAM Journal on Mathematical Analysis*, 41(3):1231–1271, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Sze05] **Szeftel:2005:MDS**
Jérémie Szeftel. Microlocal dispersive smoothing for the nonlinear Schrödinger equation. *SIAM Journal on Mathematical Analysis*, 37(2):549–597, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43210>.
- [Tak00] **Takeuchi:2000:BSN**
Shingo Takeuchi. Behavior of solutions near the flat hats of stationary solutions for a degenerate parabolic equation. *SIAM Journal on Mathematical Analysis*, 31(3):678–692, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34257>.
- [Tan07] **Taniguchi:2007:TFP**
Masaharu Taniguchi. Traveling fronts of pyramidal shapes in the Allen–Cahn equations. *SIAM Journal on Mathematical Analysis*, 39(1):319–344, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [The04] **Thevenot:2004:OFD**
Laurent Thevenot. On the optimization of the fuel distribution in a nuclear reactor. *SIAM Journal on Mathematical Analysis*, 35(5):1133–1159, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41506>.
- [Tor04] **Torres:2004:PLM**
Monica Torres. Plane-like minimal surfaces in periodic media with exclusions. *SIAM Journal on Mathematical Analysis*, 36(2):523–551, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39997>.

- [Tov08] **Tovbis:2008:BSP** Alexander Tovbis. Breaking of symmetrical periodic solutions in a singularly perturbed KDV model. *SIAM Journal on Mathematical Analysis*, 40(4): 1516–1549, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Tra06] **Trakhinin:2006:DSH** Yuri Trakhinin. Dissipative symmetrizers of hyperbolic problems and their applications to shock waves and characteristic discontinuities. *SIAM Journal on Mathematical Analysis*, 37(6):1988–2024, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Tri08] **Trivisa:2008:DLV** Konstantina Trivisa. On the dynamics of liquid-vapor phase transition. *SIAM Journal on Mathematical Analysis*, 39(6): 1788–1820, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Tsa07] **Tsai:2007:AST** Je-Chiang Tsai. Asymptotic stability of traveling wave fronts in the buffered bistable system. *SIAM Journal on Mathematical Analysis*, 39(1): 138–159, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [TT00] **Tadmor:2000:PEE** Eitan Tadmor and Tao Tang. Pointwise error estimates for relaxation approximations to conservation laws. *SIAM Journal on Mathematical Analysis*, 32(4):870–886, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34949>.
- [TTX03] **Tang:2003:FRC** Tao Tang, Zhen-Huan Teng, and Zhouping Xin. Fractional rate of convergence for viscous approximation to nonconvex conservation laws. *SIAM Journal on Mathematical Analysis*, 35(1):98–122, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38899>.
- [TW09] **Tao:2009:CCH** Youshan Tao and Mingjun Wang. A combined chemotaxis-haptotaxis system: The role of logistic source. *SIAM Journal on Mathematical Analysis*, 41(4):1533–1558, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [TY05] **Trounev:2005:LGD** Alain Trounev and Laurent Younes. Local geometry of deformable templates. *SIAM*

- Journal on Mathematical Analysis*, 37(1):17–59, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/40483>. [VA03]
- Tzirakis:2006:MCP**
- [Tzi06] Nikolaos Tzirakis. Mass concentration phenomenon for the quintic nonlinear Schrödinger equation in one dimension. *SIAM Journal on Mathematical Analysis*, 37(6):1923–1946, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [Van85]
- Tzoukmanis:2006:NPL**
- [Tzo06] Niko Tzoukmanis. Near-periodic local minimizers of singularly perturbed functionals with nonlocal term. *SIAM Journal on Mathematical Analysis*, 37(5):1396–1416, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [Van01]
- Uhlmann:2007:CSW**
- [UW07] Gunther Uhlmann and Jenn-Nan Wang. Complex spherical waves for the elasticity system and probing of inclusions. *SIAM Journal on Mathematical Analysis*, 38(6):1967–1980, ??? 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [Var08]
- Villarroel:2003:DSS**
- Javier Villarroel and Mark J. Ablowitz. On the discrete spectrum of systems in the plane and the Davey–Stewartson II equation. *SIAM Journal on Mathematical Analysis*, 34(6):1253–1278, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39162>.
- VanAssche:1985:WZD**
- Walter Van Assche. Weighted zero distribution for polynomials orthogonal on an infinite interval. *SIAM Journal on Mathematical Analysis*, 16(6):1317–1334, November 1985. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). See erratum [Van01].
- VanAssche:2001:EWZ**
- Walter Van Assche. Erratum to “Weighted Zero Distribution For Polynomials Orthogonal on an Infinite Interval”. *SIAM Journal on Mathematical Analysis*, 32(5):1169–1170, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35987>. See [Van85].
- Varvaruca:2008:SPT**
- Eugen Varvaruca. On some properties of traveling water waves with vorticity.

- SIAM Journal on Mathematical Analysis*, 39(5):1686–1692, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Váz03] **Vazquez:2003:DLT**
 Juan L. Vázquez. Darcy’s law and the theory of shrinking solutions of fast diffusion equations. *SIAM Journal on Mathematical Analysis*, 35(4):1005–1028, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39654>.
- [vBPW08] **vanBaalen:2008:LTL**
 Guillaume van Baalen, Nikola Popović, and C. Eugene Wayne. Long tails in the long-time asymptotics of quasilinear hyperbolic-parabolic systems of conservation laws. *SIAM Journal on Mathematical Analysis*, 39(6):1951–1977, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [vdBHV01] **vandenBerg:2001:TWF**
 Jan Bouwe van den Berg, Josephus Hulshof, and Robertus C. Vandervorst. Travelling waves for fourth order parabolic equations. *SIAM Journal on Mathematical Analysis*, 32(6):1342–1374, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35830>.
- [vDPP07] **vanDuijn:2007:NCE**
 C. J. van Duijn, L. A. Peletier, and I. S. Pop. A new class of entropy solutions of the Buckley–Leverett equation. *SIAM Journal on Mathematical Analysis*, 39(2):507–536, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Vis07] **Visintin:2007:HDN**
 Augusto Visintin. Homogenization of a doubly nonlinear Stefan-type problem. *SIAM Journal on Mathematical Analysis*, 39(3):987–1017, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Vis09] **Visintin:2009:PTG**
 Augusto Visintin. Phase transitions and glass formation in binary alloys. *SIAM Journal on Mathematical Analysis*, 41(5):1725–1756, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Vui03] **Vuillaume:2003:SBT**
 Grégory Vuillaume. Study of the buckling of a tapered rod with the genus of a set. *SIAM Journal on Mathematical Analysis*, 34(5):1128–1151, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/35830>.

//epubs.siam.org/sam-bin/dbq/article/40432.

Visan:2007:BCF

[VZ07]

Monica Visan and Xiaoyi Zhang. On the blowup for the L^2 -critical focusing nonlinear Schrödinger equation in higher dimensions below the energy class. *SIAM Journal on Mathematical Analysis*, 39(1):34–56, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

[Wal09b]

(4):1366–1387, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Walsh:2009:SSP

Samuel Walsh. Stratified steady periodic water waves. *SIAM Journal on Mathematical Analysis*, 41(3):1054–1105, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Wang:2000:QBS

[VZ09]

J. Vancostenoble and E. Zuazua. Hardy inequalities, observability, and control for the wave and Schrödinger equations with singular potentials. *SIAM Journal on Mathematical Analysis*, 41(4):1508–1532, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

[Wan00]

Xuefeng Wang. Qualitative behavior of solutions of chemotactic diffusion systems: Effects of motility and chemotaxis and dynamics. *SIAM Journal on Mathematical Analysis*, 31(3):535–560, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/33989>.

Wahlen:2006:SPC

[Wah06]

Erik Wahlén. Steady periodic capillary-gravity waves with vorticity. *SIAM Journal on Mathematical Analysis*, 38(3):921–943, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

[Wan08]

Wang:2008:AAP

Xiaoqiang Wang. Asymptotic analysis of phase field formulations of bending elasticity models. *SIAM Journal on Mathematical Analysis*, 39(5):1367–1401, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

Walker:2009:PES

[Wal09a]

Christoph Walker. Positive equilibrium solutions for age- and spatially-structured population models. *SIAM Journal on Mathematical Analysis*, 41

[WC09]

Wu:2009:ASS

Junde Wu and Shangbin Cui. Asymptotic stability of stationary solutions of a free

- boundary problem modeling the growth of tumors with fluid tissues. *SIAM Journal on Mathematical Analysis*, 41(1):391–414, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [WCD07] **Wang:2007:EMD**
Wei Wang, Daomin Cao, and Jinqiao Duan. Effective macroscopic dynamics of stochastic partial differential equations in perforated domains. *SIAM Journal on Mathematical Analysis*, 38(5):1508–1527, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Wes02] **Westdickenberg:2002:SNV**
Michael Westdickenberg. Some new velocity averaging results. *SIAM Journal on Mathematical Analysis*, 33(5):1007–1032, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38076>.
- [Wil09] **Wilkening:2009:PEE**
Jon Wilkening. Practical error estimates for Reynolds’ lubrication approximation and its higher order corrections. *SIAM Journal on Mathematical Analysis*, 41(2):588–630, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [WLN09] **Wang:2009:ESD**
Zhi-Cheng Wang, Wan-Tong Li, and Jianhong Wu. Entire solutions in delayed lattice differential equations with monostable nonlinearity. *SIAM Journal on Mathematical Analysis*, 40(6):2392–2420, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [WNW07] **Wu:2007:EIP**
Jianhua Wu, Hua Nie, and Gail S. K. Wolkowicz. The effect of inhibitor on the plasmid-bearing and plasmid-free model in the unstirred chemostat. *SIAM Journal on Mathematical Analysis*, 38(6):1860–1885, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Wri05] **Wright:2005:CKA**
J. Douglas Wright. Corrections to the KdV approximation for water waves. *SIAM Journal on Mathematical Analysis*, 37(4):1161–1206, January 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Wu05] **Wu:2005:GSD**
Jiahong Wu. Global solutions of the 2D dissipative quasi-geostrophic equation in Besov spaces. *SIAM Journal on Mathematical Analysis*, 36(3):1014–1030, 2005.

- CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/43557>. [WXM06]
- [WW02] Juncheng Wei and Matthias Winter. Critical threshold and stability of cluster solutions for large reaction-diffusion systems in R^1 . *SIAM Journal on Mathematical Analysis*, 33(5):1058–1089, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/38170>.
- [WW07] Christoph Walker and Glenn F. Webb. Global existence of classical solutions for a haptotaxis model. *SIAM Journal on Mathematical Analysis*, 38(5):1694–1713, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [WX05] Ya-Guang Wang and Zhouping Xin. Zero-viscosity limit of the linearized compressible Navier–Stokes equations with highly oscillatory forces in the half-plane. *SIAM Journal on Mathematical Analysis*, 37(4):1256–1298, January 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [WXM06] Shu Wang, Zhouping Xin, and Peter A. Markowich. Quasi-neutral limit of the drift diffusion models for semiconductors: The case of general sign-changing doping profile. *SIAM Journal on Mathematical Analysis*, 37(6):1854–1889, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [WY08] Shuyin Wu and Zhaoyang Yin. Blow-up and decay of the solution of the weakly dissipative Degasperis–Procesi equation. *SIAM Journal on Mathematical Analysis*, 40(2):475–490, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [WZ05] Michael I. Weinstein and Vadim Zharnitsky. A reaction dispersion system and Raman interactions. *SIAM Journal on Mathematical Analysis*, 36(6):1742–1771, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42817>.
- [WZF08] Mingjun Wei, Ting Zhang, and Daoyuan Fang. Global behavior of spherically symmetric Navier–Stokes equations

- with degenerate viscosity coefficients. *SIAM Journal on Mathematical Analysis*, 40(3): 869–904, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [YCL01]
- Xu:2003:ETD**
- [Xu03] Xiangsheng Xu. On the effects of thermal degeneracy in the thermistor problem. *SIAM Journal on Mathematical Analysis*, 35(4):1081–1098, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/41740>.
- Xu:2004:NFR**
- [Xu04] Junxiang Xu. Normal form of reversible systems and persistence of lower dimensional tori under weaker nonresonance conditions. *SIAM Journal on Mathematical Analysis*, 36(1):233–255, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42192>.
- Xu:2009:RTL**
- [Xu09] Jiang Xu. Relaxation-time limit in the isothermal hydrodynamic model for semiconductors. *SIAM Journal on Mathematical Analysis*, 40(5): 1979–1991, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). [Yoo01]
- Yang:2001:EGS**
- Yin Yang, Hua Chen, and Weian Liu. On existence of global solutions and blow-up to a system of reaction-diffusion equations modelling chemotaxis. *SIAM Journal on Mathematical Analysis*, 33(4):763–785, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/33779>.
- Yin:2004:SSP**
- [Yin04] Zhaoyang Yin. On the structure of solutions to the periodic Hunter–Saxton equation. *SIAM Journal on Mathematical Analysis*, 36(1):272–283, 2004. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/42567>.
- Yoshikawa:2007:QLT**
- [Yoc07] Shuji Yoshikawa, Irena Pawow, and Wojciech M. Zajączkowski. Quasi-linear thermoelasticity system arising in shape memory materials. *SIAM Journal on Mathematical Analysis*, 38(6):1733–1759, 2007. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- Yoon:2001:SAO**
- Jungho Yoon. Spectral approximation orders of radial basis function interpolation on the Sobolev space.

- [YZ09] *SIAM Journal on Mathematical Analysis*, 33(4):946–958, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37381>.
- [Yua06] Hairong Yuan. On transonic shocks in two-dimensional variable-area ducts for steady Euler system. *SIAM Journal on Mathematical Analysis*, 38(4):1343–1370, January 2006. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [YYW08] Fahuai Yi, Zhou Yang, and Xiaohua Wang. A variational inequality arising from European installment call options pricing. *SIAM Journal on Mathematical Analysis*, 40(1):306–326, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [YZ05] Borislav Yordanov and Qi S. Zhang. Finite-time blowup for wave equations with a potential. *SIAM Journal on Mathematical Analysis*, 36(5):1426–1433, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/44019>.
- [Yarahmadian:2009:PGF] Shantia Yarahmadian and Kevin Zumbrun. Pointwise Green function bounds and long-time stability of large-amplitude noncharacteristic boundary layers. *SIAM Journal on Mathematical Analysis*, 40(6):2328–2350, 2009. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).
- [Zag05] Sandro Zagatti. On the minimum problem for nonconvex scalar functionals. *SIAM Journal on Mathematical Analysis*, 37(3):982–995, 2005. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/61250>.
- [ZD00] Yibin Zheng and Peter C. Doerschuk. Explicit computation of orthonormal symmetrized harmonics with application to the identity representation of the icosahedral group. *SIAM Journal on Mathematical Analysis*, 32(3):538–554, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/34177>.
- [Zha03a] Kewei Zhang. Neighborhoods of parallel wells in two dimen-

- sions that separate gradient Young measures. *SIAM Journal on Mathematical Analysis*, 34(5):1207–1225, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39277>. [ZS02]
- [Zha03b] Ping Zhang. Wigner measure and the semiclassical limit of Schrödinger–Poisson equations. *SIAM Journal on Mathematical Analysis*, 34(3):700–718, 2003. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/39340>. **Zhang:2003:WMS**
- [Zha08] Xu Zhang. Carleman and observability estimates for stochastic wave equations. *SIAM Journal on Mathematical Analysis*, 40(2):851–868, 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). **Zhang:2008:COE**
- [Zho01] Ding-Xuan Zhou. Self-similar lattice tilings and subdivision schemes. *SIAM Journal on Mathematical Analysis*, 33(1):1–15, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36797>. **Zhou:2001:SSL**
- [Zingano:2002:HLT] Paulo R. Zingano and Stanly L. Steinberg. On the Hardy–Littlewood theorem for functions of bounded variation. *SIAM Journal on Mathematical Analysis*, 33(5):1199–1210, 2002. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/36930>.
- [Zui00] Rob A. Zuidwijk. Directional and time-scale wavelet analysis. *SIAM Journal on Mathematical Analysis*, 31(2):416–430, 2000. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/33335>. **Zuidwijk:2000:DTS**
- [Zwo01] Maciej Zworski. A remark on isopolar potentials. *SIAM Journal on Mathematical Analysis*, 32(6):1324–1326, 2001. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/37558>. **Zworski:2001:RIP**
- [ZY00] Zhijun Zhang and Jianing Yu. On a singular nonlinear Dirichlet problem with a convection term. *SIAM Journal on Mathematical Analysis*, 32(4):916–927, 2000. CODEN SJMAAH. **Zhang:2000:SND**

ISSN 0036-1410 (print), 1095-7154 (electronic). URL <http://epubs.siam.org/sam-bin/dbq/article/33216>.

Zhang:2008:NMR

- [ZZ08] Hui Zhang and Pingwen Zhang. On the new multiscale rodlike model of polymeric fluids. *SIAM Journal on Mathematical Analysis*, 40(3): 1246–1271, ??? 2008. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).