A Bibliography of Publications in *SIAM Journal on Numerical Analysis*: 2020–2029

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254

E-mail: beebe@math.utah.edu, beebe@acm.org,
beebe@computer.org (Internet)
WWW URL: https://www.math.utah.edu/~beebe/

16 October 2025
Version 1.17

Title word cross-reference

$(p, p-1)$ [ZW24]. (ϑ) [AK20a]. 1 [KLMZ21]. 2 [DFFS22, HM22]. 3 [FGOS20, FLH23, Han23, HJHUT20, KLMZ21]. ^{k} [CCMP24]. A [LWC23]. C^1 [CJZ22]. δ [HX20]. ℓ_2 [GPHHA20]. ℓ_∞ [GPHHA20]. Γ [GKMR22]. H [WX20, GS25a]. $H(\text{curl})$ [CFV23, Hu23]. $H(\text{div})$ [FH24]. $H(\text{curl})$ [WYZ20b]. $H(\text{DIV})$ [Mu20]. H^1 [FH24, QW23]. H^2 [AP20]. H^m [CHW22]. $H \in (0, 1)$ [ND22]. hp [AH21, AP21a, AP21b, DMS21, FMMS23]. κ [DH24]. L^2 [AXSZ22, CSWY23, DST21, LSXY24, LT25]. L^∞ [CMZ21]. L^p [DST21]. L_1 [Mus20, NT21a]. $\frac{o(1}{k)}$ [BN23]. p [BDS23, BHL21, CDCVV21, CFV23, KR23a, KR23b, KR23c, MPV20, Rie25, WL20]. ϕ [DL20b]. Q [GWY22, HLQZ25]. r [ARSY20]. θ [WZZ22].

-Conforming [CHW22]. **-Convergence** [GKMR22]. **-Curl** [WL20]. **-Dimensional** [HJHUT20]. **-Discontinuous** [DMS21]. **-Elliptic** [Hu23]. **-FEM** [FMMS23, GS25a, AP21a, AP21b, DL20b]. **-Field** [FGOS20]. **-HDG** [ZW24]. **-Laplace-Type** [BHL21]. **-Laplacian** [BDS23, CDCVV21]. **-Navier** [KR23a, KR23b, KR23c]. **-Norm** [QW23]. **-Projection** [DST21]. **-Robust** [CFV23, MPV20]. **-Singularities** [HX20]. **-stability** [AK20a, DST21]. **-Stable** [AP20, LWC23]. **-Tensor** [GWY22, HLQZ25]. **-Version** [Rie25].

1-Wasserstein [XLZZ24]. **1D** [MKR24].

References

Ando:2020:CAC

[AB20] Alessia Andò and Dimitri Breda. Convergence analysis of collocation methods for

computing periodic solutions of retarded functional differential equations. *SIAM Journal on Numerical Analysis*, 58(5): 3010–3039, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Agocs:2024:ASM

[AB24] Fruzsina J. Agocs and Alex H. Barnett. An adaptive spectral method for oscillatory second-order linear ODEs with frequency-independent cost. *SIAM Journal on Numerical Analysis*, 62(1):295–321, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ahmed:2021:PRD

[ABB+21] Naveed Ahmed, Gabriel R. Barrenechea, Erik Burman, Johnny Guzmán, Alexander Linke, and Christian Merdon. A pressure-robust discretization of Oseen's equation using stabilization in the vorticity equation. *SIAM Journal on Numerical Analysis*, 59(5): 2746–2774, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Antonietti:2023:ABG

[ABBV23] Paola F. Antonietti, Stefano Berrone, Martina Busetto, and Marco Verani. Agglomeration-based geometric multigrid schemes for the virtual element method. *SIAM Journal on Numerical Analysis*, 61(1):223–249, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1466864`.

Archibald:2024:NAC

[ABCS24] Richard Archibald, Feng Bao, Yanzhao Cao, and Hui Sun. Numerical analysis for convergence of a sample-wise backpropagation method for training stochastic neural networks. *SIAM Journal on Numerical Analysis*, 62(2):593–621, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ammari:2020:OMS

[ACL20] Habib Ammari, Yat Tin Chow, and Keji Liu. Optimal mesh size for inverse medium scattering problems. *SIAM Journal on Numerical Analysis*, 58 (1):733–756, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Akyildiz:2024:SDS

[ACM24] Ö. Deniz Akyildiz, Dan Crisan, and Joaquin Miguez. Sequential discretization schemes for a class of stochastic differential equations and their application to Bayesian filtering. *SIAM Journal on Numerical Analysis*, 62(2):946–973, April 2024. CODEN

SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Azah:2021:CCE

[ACW21] Mohammad Al Azah and Simon N. Chandler-Wilde. Computation of the complex error function using modified trapezoidal rules. *SIAM Journal on Numerical Analysis*, 59(5): 2346–2367, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Akrivis:2021:ETS

[ACYZ21] Georgios Akrivis, Minghua Chen, Fan Yu, and Zhi Zhou. The energy technique for the six-step BDF method. *SIAM Journal on Numerical Analysis*, 59(5):2449–2472, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

An:2024:NMS

[ACZ24] Jing An, Waixiang Cao, and Zhimin Zhang. A novel mixed spectral method and error estimates for Maxwell transmission eigenvalue problems. *SIAM Journal on Numerical Analysis*, 62(3):1039–1066, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Aregba-Driollet:2022:DVN

[ADBP22] Denise Aregba-Driollet, Stéphane Brull, and Corentin Prigent. A discrete velocity numerical scheme for the two-dimensional bitemperature Euler system. *SIAM Journal on Numerical Analysis*, 60(1):28–51, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1407185`.

Antonopoulos:2017:EEG

[ADM17] D. C. Antonopoulos, V. A. Dougalis, and D. E. Mitsotakis. Error estimates for Galerkin approximations of the Serre equations. *SIAM Journal on Numerical Analysis*, 55(2):841–868, ???? 2017. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). See corrigendum [ADM21].

Antonopoulos:2021:CEE

[ADM21] D. C. Antonopoulos, V. A. Dougalis, and D. E. Mitsotakis. Corrigendum: Error estimates for Galerkin approximations of the Serre equations. *SIAM Journal on Numerical Analysis*, 59(6):3098–3101, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). See [ADM17].

Antil:2023:ASG

[ADS23] Harbir Antil, Patrick W. Dondl, and Ludwig Striet. Analysis of a sinc-Galerkin method for the fractional Laplacian. *SIAM Journal on Numerical Analysis*, 61(6):

2967–2993, December 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Abrahamsen:2021:IOL

[AF21] Dylan Abrahamsen and Bengt Fornberg. On the infinite order limit of Hermite-based finite difference schemes. *SIAM Journal on Numerical Analysis*, 59(4):1857–1874, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ahmed:2021:RLD

[AFB+21] Elyes Ahmed, Alessio Fumagalli, Ana Budisa, Eirik Keilegavlen, Jan M. Nordbotten, and Florin A. Radu. Robust linear domain decomposition schemes for reduced nonlinear fracture flow models. *SIAM Journal on Numerical Analysis*, 59(1):583–612, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

An:2021:OEA

[AGS21] Rong An, Huadong Gao, and Weiwei Sun. Optimal error analysis of Euler and Crank–Nicolson projection finite difference schemes for Landau–Lifshitz equation. *SIAM Journal on Numerical Analysis*, 59 (3):1639–1662, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Appleton:2021:HOL

[AH21] Jay Miles Appleton and Brian T. Helenbrook. A high-order lower-triangular pseudo-mass matrix for explicit time advancement of *hp* triangular finite element methods. *SIAM Journal on Numerical Analysis*, 59(3):1618–1638, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Adcock:2024:SAL

[AHP24] Ben Adcock, Daan Huybrechs, and Cecile Piret. Stable and accurate least squares radial basis function approximations on bounded domains. *SIAM Journal on Numerical Analysis*, 62(6):2698–2718, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1593243`.

Araya:2025:MHM

[AHPV25] Rodolfo Araya, Christopher Harder, Abner H. Poza, and Frédéric Valentin. Multiscale hybrid-mixed methods for the Stokes and Brinkman equations — a priori analysis. *SIAM Journal on Numerical Analysis*, 63(2):588–618, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1649368`.

Armbruster:2022:SCL

[AHV22] Dieter Armbruster, Michael Herty, and Giuseppe Visconti. A stabilization of a continuous limit of the ensemble Kalman inversion. *SIAM Journal on Numerical Analysis*, 60(3):1494–1515, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1414000`.

Amrein:2023:NER

[AHW23] Mario Amrein, Pascal Heid, and Thomas P. Wihler. A numerical energy reduction approach for semilinear diffusion–reaction boundary value problems based on steady-state iterations. *SIAM Journal on Numerical Analysis*, 61(2):755–783, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1478586`.

Ainsworth:2024:USP

[AJ24] Mark Ainsworth and Shuai Jiang. Uniform substructuring preconditioners for high order FEM on triangles and the influence of nodal basis functions. *SIAM Journal on Numerical Analysis*, 62 (4):1465–1491, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1561920`.

Aylwin:2023:FED

[AJH23] Rubén Aylwin and Carlos Jerez-Hanckes. Finite-element domain approximation for Maxwell variational problems on curved domains. *SIAM Journal on Numerical Analysis*, 61(3):1139–1171, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1468772`.

Akrivis:2020:ASC

[AK20a] Georgios Akrivis and Emmanouil Katsoprinakis. An analogue to the A(ϑ)-stability concept for implicit-explicit BDF methods. *SIAM Journal on Numerical Analysis*, 58(6): 3475–3503, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Apel:2020:BDM

[AK20b] Thomas Apel and Volker Kempf. Brezzi–Douglas–Marini interpolation of any order on anisotropic triangles and tetrahedra. *SIAM Journal on Numerical Analysis*, 58(3): 1696–1718, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Axelsson:2023:RSK

[AKM23] Owe Axelsson, János Karátson, and Frédéric Magoulès. Ro-

bust superlinear Krylov convergence for complex noncoercive compact-equivalent operator preconditioners. *SIAM Journal on Numerical Analysis*, 61(2):1057–1079, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1466955`.

Ambartsumyan:2020:MSM

[AKNY20] Ilona Ambartsumyan, Eldar Khattatov, Jan M. Nordbotten, and Ivan Yotov. A multipoint stress mixed finite element method for elasticity on simplicial grids. *SIAM Journal on Numerical Analysis*, 58 (1):630–656, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Aggul:2023:FFI

[ALOS23] Mustafa Aggul, Alexander E. Labovsky, Eda Onal, and Kyle J. Schwiebert. Fluid-fluid interaction problems at high Reynolds numbers: Reducing the modeling error with LES-C. *SIAM Journal on Numerical Analysis*, 61(2):707–732, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1494269`.

Akrivis:2021:CSO

[ALW21] Georgios Akrivis, Buyang Li, and Jilu Wang. Convergence of a second-order energy-decaying method for the viscous rotating shallow water equation. *SIAM Journal on Numerical Analysis*, 59(1): 265–288, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Akrivis:2022:MRE

[AM22] Georgios Akrivis and Charalambos Makridakis. On maximal regularity estimates for discontinuous Galerkin time-discrete methods. *SIAM Journal on Numerical Analysis*, 60(1):180–194, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1383781`.

Ali:2021:ASC

[AN21] Mazen Ali and Anthony Nouy. Approximation of smoothness classes by deep rectifier networks. *SIAM Journal on Numerical Analysis*, 59(6):3032–3051, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ainsworth:2020:SPL

[AP20] Mark Ainsworth and Charles Parker. H^2-stable polynomial liftings on triangles. *SIAM Journal on Numerical Analysis*, 58(3):1867–1892, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ainsworth:2021:MCMa

[AP21a] Mark Ainsworth and Charles Parker. Mass conserving mixed *hp*-FEM approximations to Stokes flow. Part I: Uniform stability. *SIAM Journal on Numerical Analysis*, 59 (3):1218–1244, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ainsworth:2021:MCMb

[AP21b] Mark Ainsworth and Charles Parker. Mass conserving mixed *hp*-FEM approximations to Stokes flow. Part II: Optimal convergence. *SIAM Journal on Numerical Analysis*, 59(3):1245–1272, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ainsworth:2022:MCM

[AP22] Mark Ainsworth and Charles Parker. A mass conserving mixed hp-FEM scheme for Stokes flow. Part III: Implementation and preconditioning. *SIAM Journal on Numerical Analysis*, 60(3):1574–1606, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1433927`.

Ashby:2024:DBE

[AP24] Ben S. Ashby and Tristan Pryer. Duality-based error control for the Signorini problem. *SIAM Journal on Numerical Analysis*, 62 (4):1687–1712, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1534791`.

Amat:2020:NWA

[ARSY20] Sergio P. Amat, Juan Ruiz, Chi-Wang Shu, and Dionisio F. Yáñez. A new WENO-2r algorithm with progressive order of accuracy close to discontinuities. *SIAM Journal on Numerical Analysis*, 58(6): 3448–3474, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Arranz-Simon:2025:RMA

[ASP25] Carlos Arranz-Simón and César Palencia. Rational methods for abstract, linear, nonhomogeneous problems without order reduction. *SIAM Journal on Numerical Analysis*, 63(1):422–436, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M165942X`.

Avitabile:2023:PMN

[Avi23] Daniele Avitabile. Projection methods for neural field equations. *SIAM Journal on Numerical Analysis*, 61 (2):562–591, ???? 2023. CODEN SJNAAM. ISSN

0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1463768`.

Arnold:2020:HHJ

[AW20] Douglas N. Arnold and Shawn W. Walker. The Hellan–Herrmann–Johnson method with curved elements. *SIAM Journal on Numerical Analysis*, 58(5): 2829–2855, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ai:2022:EES

[AXSZ22] Jingqi Ai, Yuan Xu, Chi-Wang Shu, and Qiang Zhang. L^2 error estimate to smooth solutions of high order Runge–Kutta discontinuous Galerkin method for scalar nonlinear conservation laws with and without sonic points. *SIAM Journal on Numerical Analysis*, 60(4):1741–1773, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1435495`.

Anderson:2020:VFD

[AY20] David F. Anderson and Chaojie Yuan. Variance of finite difference methods for reaction networks with non-Lipschitz rate functions. *SIAM Journal on Numerical Analysis*, 58(6): 3125–3143, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bartels:2020:NSI

[Bar20] Sören Bartels. Numerical simulation of inextensible elastic ribbons. *SIAM Journal on Numerical Analysis*, 58(6):3332–3354, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Binev:2024:SPI

[BBC+24] Peter Binev, Andrea Bonito, Albert Cohen, Wolfgang Dahmen, Ronald DeVore, and Guergana Petrova. Solving PDEs with incomplete information. *SIAM Journal on Numerical Analysis*, 62(3):1278–1312, June 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1546671`.

Bertoluzza:2022:PEE

[BBH22] Silvia Bertoluzza, Erik Burman, and Cuiyu He. An a posteriori error estimate of the outer normal derivative using dual weights. *SIAM Journal on Numerical Analysis*, 60(1):475–501, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1358219`.

Boubendir:2024:DDM

[BBHT24] Yassine Boubendir, Jake Brusca, Brittany F. Hamfeldt, and Tadanaga Takahashi. Domain decomposition meth-

ods for the Monge–Ampère equation. *SIAM Journal on Numerical Analysis*, 62 (4):1979–2003, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1576839`.

Bian:2020:SPG

[BC20] Wei Bian and Xiaojun Chen. A smoothing proximal gradient algorithm for nonsmooth convex regression with cardinality penalty. *SIAM Journal on Numerical Analysis*, 58 (1):858–883, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bian:2022:AAN

[BC22] Wei Bian and Xiaojun Chen. Anderson acceleration for nonsmooth fixed point problems. *SIAM Journal on Numerical Analysis*, 60(5):2565–2591, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1475983`.

Bao:2022:IUE

[BCF22] Weizhu Bao, Yongyong Cai, and Yue Feng. Improved uniform error bounds on time-splitting methods for long-time dynamics of the nonlinear Klein–Gordon equation with weak nonlinearity. *SIAM Journal on Numerical Analysis*, 60(4):1962–1984, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1449774`.

Bessemoulin-Chatard:2023:CDG

[BCF23] Marianne Bessemoulin-Chatard and Francis Filbet. On the convergence of discontinuous Galerkin/Hermite spectral methods for the Vlasov–Poisson system. *SIAM Journal on Numerical Analysis*, 61(4):1664–1688, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1518232`.

Buffa:2024:EFP

[BCG+24] Annalisa Buffa, Ondine Chanon, Denise Grappein, Rafael Vázquez, and Martin Vohralík. An equilibrated flux a posteriori error estimator for defeaturing problems. *SIAM Journal on Numerical Analysis*, 62(6):2439–2458, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1627195`.

Bao:2024:CAB

[BCJQ24] Chenglong Bao, Chang Chen, Kai Jiang, and Lingyun Qiu. Convergence analysis for Bregman iterations in minimizing a class of Landau free energy functionals. *SIAM Journal on Numerical Analysis*, 62(1):

476–499, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Beckermann:2021:LRU

[BCKS21] Bernhard Beckermann, Alice Cortinovis, Daniel Kressner, and Marcel Schweitzer. Low-rank updates of matrix functions II: Rational Krylov methods. *SIAM Journal on Numerical Analysis*, 59(3): 1325–1347, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Briani:2021:CRM

[BCT21] Maya Briani, Lucia Caramellino, and Giulia Terenzi. Convergence rate of Markov chains and hybrid numerical schemes to jump-diffusion with application to the Bates model. *SIAM Journal on Numerical Analysis*, 59(1):477–502, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bao:2021:UEB

[BCY21] Weizhu Bao, Yongyong Cai, and Jia Yin. Uniform error bounds of time-splitting methods for the nonlinear Dirac equation in the nonrelativistic regime without magnetic potential. *SIAM Journal on Numerical Analysis*, 59(2):1040–1066, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Busto:2023:NTC

[BD23] Saray Busto and Michael Dumbser. A new thermodynamically compatible finite volume scheme for magnetohydrodynamics. *SIAM Journal on Numerical Analysis*, 61(1):343–364, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M147815X`.

Baudouin:2021:CBR

[BdBEO21] Lucie Baudouin, Maya de Buhan, Sylvain Ervedoza, and Axel Osses. Carleman-based reconstruction algorithm for waves. *SIAM Journal on Numerical Analysis*, 59(2):998–1039, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Burman:2021:HHO

[BDE21] Erik Burman, Guillaume Delay, and Alexandre Ern. A hybridized high-order method for unique continuation subject to the Helmholtz equation. *SIAM Journal on Numerical Analysis*, 59(5):2368–2392, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Burman:2023:UCP

[BDE23] Erik Burman, Guillaume Delay, and Alexandre Ern. The unique continuation problem for the heat equa-

tion discretized with a high-order space-time nonconforming method. *SIAM Journal on Numerical Analysis*, 61(5): 2534–2557, October 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Buckwar:2024:DDM

[BDE24] Evelyn Buckwar, Ana Djurdjevac, and Monika Eisenmann. A domain decomposition method for stochastic evolution equations. *SIAM Journal on Numerical Analysis*, 62(6):2611–2639, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1629845`.

Butkovsky:2023:ORC

[BDG23] Oleg Butkovsky, Konstantinos Dareiotis, and Máté Gerencsér. Optimal rate of convergence for approximations of SPDEs with nonregular drift. *SIAM Journal on Numerical Analysis*, 61(2):1103–1137, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1454213`.

Bonito:2020:DCF

[BDL20] Andrea Bonito, Alan Demlow, and Martin Licht. A divergence-conforming finite element method for the surface Stokes equation. *SIAM Journal on Numerical Analysis*, 58 (5):2764–2798, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Boon:2025:MFE

[BDN25] W. M. Boon, O. Duran, and J. M. Nordbotten. Mixed finite element methods for linear Cosserat equations. *SIAM Journal on Numerical Analysis*, 63(1):306–333, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1648387`.

Balci:2023:RAS

[BDS23] Anna Kh. Balci, Lars Diening, and Johannes Storn. Relaxed kačanov scheme for the p-Laplacian with large exponent. *SIAM Journal on Numerical Analysis*, 61(6):2775–2794, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bruno:2024:PIF

[BE24] Ludovico Bruni Bruno and Wolfgang Erb. Polynomial interpolation of function averages on interval segments. *SIAM Journal on Numerical Analysis*, 62 (4):1759–1781, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https:`

//epubs.siam.org/doi/10.1137/23M1598271.

Bachmayr:2025:CAF

[BEEV25] Markus Bachmayr, Martin Eigel, Henrik Eisenmann, and Igor Voulis. A convergent adaptive finite element stochastic Galerkin method based on multilevel expansions of random fields. *SIAM Journal on Numerical Analysis*, 63(4):1776–1807, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/24M1649253.

Bendali:2025:PHF

[Ben25] A. Bendali. Primal hybrid finite element method for the Helmholtz equation. *SIAM Journal on Numerical Analysis*, 63(1):54–80, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/24M1654038.

Bersetche:2024:BOC

[BFOQ24] Francisco Bersetche, Francisco Fuica, Enrique Otárola, and Daniel Quero. Bilinear optimal control for the fractional Laplacian: Analysis and discretization. *SIAM Journal on Numerical Analysis*, 62(3):1344–1371, June 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/23M154947X.

Burman:2020:WIS

[BFS20] Erik Burman, Stefan Frei, and Matthew W. Scroggs. Weak imposition of Signorini boundary conditions on the boundary element method. *SIAM Journal on Numerical Analysis*, 58(4):2334–2350, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Boon:2023:MMF

[BFS23] Wietse M. Boon, Alessio Fumagalli, and Anna Scotti. Mixed and multipoint finite element methods for rotation-based poroelasticity. *SIAM Journal on Numerical Analysis*, 61(5):2485–2508, October 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Burkovska:2020:AAP

[BG20] Olena Burkovska and Max Gunzburger. Affine approximation of parametrized kernels and model order reduction for nonlocal and fractional Laplace models. *SIAM Journal on Numerical Analysis*, 58 (3):1469–1494, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Brunk:2025:PEC

[BGco25] A. Brunk, J. Giesselmann, and M. Lukácová-Medvi ďová.

A posteriori error control for the Allen–Cahn equation with variable mobility. *SIAM Journal on Numerical Analysis*, 63(4):1540–1560, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1646406`.

Burman:2023:IET

[BGG23] Erik Burman, Deepika Garg, and Johnny Guzman. Implicit–explicit time discretization for Oseen's equation at high Reynolds number with application to fractional step methods. *SIAM Journal on Numerical Analysis*, 61(6):2859–2886, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Boon:2022:FMM

[BGHY22] Wietse M. Boon, Dennis Gläser, Rainer Helmig, and Ivan Yotov. Flux-mortar mixed finite element methods on NonMatching grids. *SIAM Journal on Numerical Analysis*, 60(3):1193–1225, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1361407`.

BenBelgacem:2022:FDC

[BGJ22] Faker Ben Belgacem, Vivette Girault, and Faten Jelassi. Full discretization of Cauchy's problem by Lavrentiev–Finite element method. *SIAM Journal on Numerical Analysis*, 60(2):558–584, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1401310`.

Bachmayr:2020:UAP

[BGNS20] Markus Bachmayr, Ivan G. Graham, Van Kien Nguyen, and Robert Scheichl. Unified analysis of periodization-based sampling methods for Matérn covariances. *SIAM Journal on Numerical Analysis*, 58(5):2953–2980, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bredies:2021:CAP

[BH21] Kristian Bredies and Richard Huber. Convergence analysis of pixel-driven Radon and fan-beam transforms. *SIAM Journal on Numerical Analysis*, 59(3):1399–1432, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Banas:2025:NAB

[BH25] L'ubomír Banas and Sebastian Herr. Numerical approximation of biharmonic wave maps into spheres. *SIAM Journal on Numerical Analysis*, 63(3):1160–1182, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-

7170 (electronic). URL https://epubs.siam.org/doi/10.1137/24M1694471.

Breit:2021:STA

[BHL21] Dominic Breit, Martina Hofmanová, and Sébastien Loisel. Space-time approximation of stochastic p-Laplace-type systems. *SIAM Journal on Numerical Analysis*, 59(4):2218–2236, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bai:2024:CEF

[BHL24a] Genming Bai, Jiashun Hu, and Buyang Li. A convergent evolving finite element method with artificial tangential motion for surface evolution under a prescribed velocity field. *SIAM Journal on Numerical Analysis*, 62(5):2172–2195, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/23M156968X.

Burman:2024:CFE

[BHL24b] Erik Burman, Peter Hansbo, and Mats Larson. Cut finite element method for divergence-free approximation of incompressible flow: a Lagrange multiplier approach. *SIAM Journal on Numerical Analysis*, 62(2):893–918, April 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bao:2024:SSM

[BHLZ24] Gang Bao, Wenmao Hua, Jun Lai, and Jinrui Zhang. Singularity swapping method for nearly singular integrals based on trapezoidal rule. *SIAM Journal on Numerical Analysis*, 62(2):974–997, April 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bensoussan:2023:VGB

[BHYZ23] Alain Bensoussan, Jiayue Han, Sheung Chi Phillip Yam, and Xiang Zhou. Value-gradient based formulation of optimal control problem and machine learning algorithm. *SIAM Journal on Numerical Analysis*, 61(2):973–994, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1442838.

Becker:2022:AFP

[BIP22] Roland Becker, Michael Innerberger, and Dirk Praetorius. Adaptive FEM for parameter-errors in elliptic linear–quadratic parameter estimation problems. *SIAM Journal on Numerical Analysis*, 60(3):1450–1471, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1458077.

Bencheikh:2022:CTV

[BJ22] Oumaima Bencheikh and Benjamin Jourdain. Convergence in total variation of the Euler–Maruyama scheme applied to diffusion processes with measurable drift coefficient and additive noise. *SIAM Journal on Numerical Analysis*, 60(4):1701–1740, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1371774`.

Bao:2023:SPF

[BJL23] Weizhu Bao, Wei Jiang, and Yifei Li. A symmetrized parametric finite element method for anisotropic surface diffusion of closed curves. *SIAM Journal on Numerical Analysis*, 61(2):617–641, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1472851`.

Bui:2022:CPO

[BJMO22] Duc Quang Bui, Caroline Japhet, Yvon Maday, and Pascal Omnes. Coupling parareal with optimized Schwarz waveform relaxation for parabolic problems. *SIAM Journal on Numerical Analysis*, 60(3):913–939, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1419428`.

Becache:2021:SCA

[BK21] Eliane Bécache and Maryna Kachanovska. Stability and convergence analysis of time-domain perfectly matched layers for the wave equation in waveguides. *SIAM Journal on Numerical Analysis*, 59(4):2004–2039, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bhattacharya:2024:LHE

[BKR+24] Kaushik Bhattacharya, Nikola B. Kovachki, Aakila Rajan, Andrew M. Stuart, and Margaret Trautner. Learning homogenization for elliptic operators. *SIAM Journal on Numerical Analysis*, 62(4):1844–1873, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1585015`.

Biswas:2025:ERK

[BKR+25] Abhijit Biswas, David I. Ketcheson, Steven Roberts, Benjamin Seibold, and David Shirokoff. Explicit Runge–Kutta methods that alleviate order reduction. *SIAM Journal on Numerical Analysis*, 63(4):1398–1426, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https:`

//epubs.siam.org/doi/10.1137/23M1606812.

Biswas:2024:ASW

[BKSS24] Abhijit Biswas, David Ketcheson, Benjamin Seibold, and David Shirokoff. Algebraic structure of the weak stage order conditions for Runge–Kutta methods. *SIAM Journal on Numerical Analysis*, 62 (1):48–72, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bai:2023:ECD

[BL23] Genming Bai and Buyang Li. Erratum: Convergence of Dziuk's semidiscrete finite element method for mean curvature flow of closed surfaces with high-order finite elements. *SIAM Journal on Numerical Analysis*, 61 (3):1609–1612, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/22M1521791.

Bao:2025:ESP

[BL25] Weizhu Bao and Yifei Li. An energy-stable parametric finite element method for the planar Willmore flow. *SIAM Journal on Numerical Analysis*, 63(1):103–121, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/24M1633893.

Banjai:2021:SCV

[BLM21] Lehel Banjai, Gabriel Lord, and Jeta Molla. Strong convergence of a Verlet integrator for the semilinear stochastic wave equation. *SIAM Journal on Numerical Analysis*, 59 (4):1976–2003, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Borthagaray:2021:LEE

[BLN21] Juan Pablo Borthagaray, Dmitriy Leykekhman, and Ricardo H. Nochetto. Local energy estimates for the fractional Laplacian. *SIAM Journal on Numerical Analysis*, 59 (4):1918–1947, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Behringer:2020:GLP

[BLV20] Niklas Behringer, Dmitriy Leykekhman, and Boris Vexler. Global and local pointwise error estimates for finite element approximations to the Stokes problem on convex polyhedra. *SIAM Journal on Numerical Analysis*, 58(3):1531–1555, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Lin:2021:DFH

[bLWZ21] Shao bo Lin, Yu Guang Wang, and Ding-Xuan Zhou. Distributed filtered hyperinterpolation for noisy data on the

sphere. *SIAM Journal on Numerical Analysis*, 59(2):634–659, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bao:2020:ISR

[BLX20] Gang Bao, Yiwen Lin, and Xiang Xu. Inverse scattering by a random periodic structure. *SIAM Journal on Numerical Analysis*, 58(5):2934–2952, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bao:2021:AFE

[BLY21] Gang Bao, Peijun Li, and Xiaokai Yuan. An adaptive finite element DtN method for the elastic wave scattering problem in three dimensions. *SIAM Journal on Numerical Analysis*, 59(6):2900–2925, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Birgin:2022:SAS

[BM22] Ernesto G. Birgin and J. M. MartÍnez. Secant acceleration of sequential residual methods for solving large-scale nonlinear systems of equations. *SIAM Journal on Numerical Analysis*, 60(6):3145–3180, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1388024`.

Banica:2024:NIS

[BMS24] Valeria Banica, Georg Maierhofer, and Katharina Schratz. Numerical integration of Schrödinger maps via the Hasimoto transform. *SIAM Journal on Numerical Analysis*, 62(1):322–352, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bo:2023:FKS

[BN23] Radu Ioan Bo and Dang-Khoa Nguyen. Fast Krasnosel'skiĭ–Mann algorithm with a convergence rate of the fixed point iteration of $\frac{o(1}{k)}$. *SIAM Journal on Numerical Analysis*, 61(6):2813–2843, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bouck:2023:CFM

[BNY23] Lucas Bouck, Ricardo H. Nochetto, and Shuo Yang. Convergent FEM for a membrane model of liquid crystal polymer networks. *SIAM Journal on Numerical Analysis*, 61(6):2887–2916, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Braun:2020:SUC

[BO20] Julian Braun and Christoph Ortner. Sharp uniform convergence rate of the supercell approximation of a crystalline defect. *SIAM Journal on Numerical Analysis*, 58(1):279–297,

???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Borm:2022:II

[Bör22] Steffen Börm. On iterated interpolation. *SIAM Journal on Numerical Analysis*, 60(6):3124–3144, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1510649`.

Braun:2025:HOF

[BOWZ25] Julian Braun, Christoph Ortner, Yangshuai Wang, and Lei Zhang. Higher-order far-field boundary conditions for crystalline defects. *SIAM Journal on Numerical Analysis*, 63(2):520–541, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M165836X`.

Bertoluzza:2020:FDT

[BPP20] Silvia Bertoluzza, Micol Pennacchio, and Daniele Prada. FETI-DP for the three dimensional virtual element method. *SIAM Journal on Numerical Analysis*, 58(3):1556–1591, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Braukhoff:2022:ESP

[BPS22] Marcel Braukhoff, Ilaria Perugia, and Paul Stocker. An entropy structure preserving space-time formulation for cross-diffusion systems: Analysis and Galerkin discretization. *SIAM Journal on Numerical Analysis*, 60(1):364–395, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1360086`.

Buffa:2020:MSP

[BPV20] A. Buffa, R. Puppi, and R. Vázquez. A minimal stabilization procedure for isogeometric methods on trimmed geometries. *SIAM Journal on Numerical Analysis*, 58(5):2711–2735, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bartels:2023:QOE

[BPW23] Sören Bartels, Christian Palus, and Zhangxian Wang. Quasi-optimal error estimates for the finite element approximation of stable harmonic maps with nodal constraints. *SIAM Journal on Numerical Analysis*, 61(4):1819–1834, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1524497`.

Badwaik:2020:CRM

[BR20a] Jayesh Badwaik and Adrian M. Ruf. Convergence rates of

monotone schemes for conservation laws with discontinuous flux. *SIAM Journal on Numerical Analysis*, 58(1):607–629, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bartels:2020:CFD

[BR20b] Sören Bartels and Michael Ruzicka. Convergence of fully discrete implicit and semi-implicit approximations of singular parabolic equations. *SIAM Journal on Numerical Analysis*, 58(1):811–833, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Brunken:2022:SEP

[BS22] Julia Brunken and Kathrin Smetana. Stable and efficient Petrov–Galerkin methods for a kinetic Fokker–Planck equation. *SIAM Journal on Numerical Analysis*, 60(1):157–179, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1374857`.

Blomker:2022:CTL

[BSWW22] Dirk Blömker, Claudia Schillings, Philipp Wacker, and Simon Weissmann. Continuous time limit of the stochastic ensemble Kalman inversion: Strong convergence analysis. *SIAM Journal on Numerical Analysis*, 60(6):3181–3215, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1437561`.

BeiraodaVeiga:2022:SEE

[BV22] L. Beirão da Veiga and G. Vacca. Sharper error estimates for virtual elements and a bubble-enriched version. *SIAM Journal on Numerical Analysis*, 60(4):1853–1878, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1411275`.

Brehier:2020:PAS

[BW20] Charles-Edouard Brehier and Xu Wang. On parareal algorithms for semilinear parabolic stochastic PDEs. *SIAM Journal on Numerical Analysis*, 58 (1):254–278, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Banas:2022:PES

[BW22] L'ubomír Banas and André Wilke. A posteriori estimates for the stochastic total variation flow. *SIAM Journal on Numerical Analysis*, 60 (5):2657–2680, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1447982`.

Bao:2024:ESE

[BW24a] Weizhu Bao and Chushan Wang. An explicit and symmetric exponential wave integrator for the nonlinear Schrödinger equation with low regularity potential and nonlinearity. *SIAM Journal on Numerical Analysis*, 62 (4):1901–1928, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1615656`.

Bao:2024:OEB

[BW24b] Weizhu Bao and Chushan Wang. Optimal error bounds on the exponential wave integrator for the nonlinear Schrödinger equation with low regularity potential and nonlinearity. *SIAM Journal on Numerical Analysis*, 62(1):93–118, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bao:2021:SPP

[BZ21] Weizhu Bao and Quan Zhao. A structure-preserving parametric finite element method for surface diffusion. *SIAM Journal on Numerical Analysis*, 59 (5):2775–2799, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carson:2022:CAM

[CAGD22] Hugh A. Carson, Steven Allmaras, Marshall Galbraith, and David Darmofal. Convergence of anisotropic mesh adaptation via metric optimization. *SIAM Journal on Numerical Analysis*, 60 (3):1281–1306, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1338721`.

Chupeng:2023:WEC

[CAS23] Ma Chupeng, Christian Alber, and Robert Scheichl. Wavenumber explicit convergence of a multiscale generalized finite element method for heterogeneous Helmholtz problems. *SIAM Journal on Numerical Analysis*, 61 (3):1546–1584, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1466748`.

Castano:2025:LAB

[CBM25] Alejandro Castaño, Mathieu Bajodek, and Sabine Mondié. Legendre approximation-based stability test for distributed delay systems. *SIAM Journal on Numerical Analysis*, 63(2):641–660, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1610859`.

Cacace:2023:AVF

[CC23] Simone Cacace and Fabio

Camilli. Approximation of the value function for optimal control problems on stratified domains. *SIAM Journal on Numerical Analysis*, 61(3):1172–1194, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1509370`.

Cances:2020:LTB

[CCHHK20] Clément Cancès, Claire Chainais-Hillairet, Maxime Herda, and Stella Krell. Large time behavior of nonlinear finite volume schemes for convection–diffusion equations. *SIAM Journal on Numerical Analysis*, 58(5):2544–2571, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2023:KBL

[CCL23] Meng Chen, Ka Chun Cheung, and Leevan Ling. A kernel-based least-squares collocation method for surface diffusion. *SIAM Journal on Numerical Analysis*, 61(3):1386–1404, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1444369`.

Coclite:2024:NFN

[CCMP24] Alessandro Coclite, Giuseppe M. Coclite, Francesco Maddalena, and Tiziano Politi. A numerical framework for nonlinear peridynamics on two-dimensional manifolds based on implicit P-$(EC)^k$ schemes. *SIAM Journal on Numerical Analysis*, 62(2):622–645, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2021:AAS

[CCW21] Pengwen Chen, Chung-Kuan Cheng, and Xinyuan Wang. Arnoldi algorithms with structured orthogonalization. *SIAM Journal on Numerical Analysis*, 59(1):370–400, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carrillo:2022:OMT

[CCW22] José A. Carrillo, Lin Chen, and Qi Wang. An optimal mass transport method for random genetic drift. *SIAM Journal on Numerical Analysis*, 60(3):940–969, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1389431`.

Casado-Diaz:2021:NML

[CDCVV21] Juan Casado-Díaz, Carlos Conca, and Donato Vásquez-Varas. Numerical maximization of the p-Laplacian energy of a two-phase material. *SIAM Journal on Numerical Analysis*, 59(6):3077–3097, ???? 2021. CODEN SJNAAM.

ISSN 0036-1429 (print), 1095-7170 (electronic).

Cohen:2020:ORM

[CDD+20] Albert Cohen, Wolfgang Dahmen, Ronald DeVore, Jalal Fadili, Olga Mula, and James Nichols. Optimal reduced model algorithms for data-based state estimation. *SIAM Journal on Numerical Analysis*, 58(6):3355–3381, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cangiani:2023:PEE

[CDG23] Andrea Cangiani, Zhaonan Dong, and Emmanuil H. Georgoulis. A posteriori error estimates for discontinuous Galerkin methods on polygonal and polyhedral meshes. *SIAM Journal on Numerical Analysis*, 61(5):2352–2380, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1516701`.

Chen:2025:NCS

[CDHZ25] Chuchu Chen, Tonghe Dang, Jialin Hong, and Fengshan Zhang. A new class of splitting methods that preserve ergodicity and exponential integrability for the stochastic Langevin equation. *SIAM Journal on Numerical Analysis*, 63(2):1000–1024, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1687686`.

Chen:2022:NCD

[CDP22] Yanlai Chen, Bo Dong, and Rebecca Pereira. A new conservative discontinuous Galerkin method via implicit penalization for the generalized Korteweg–de Vries equation. *SIAM Journal on Numerical Analysis*, 60 (6):3078–3098, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1470827`.

Cui:2024:OCA

[CDW24] Shumo Cui, Shengrong Ding, and Kailiang Wu. On optimal cell average decomposition for high-order bound-preserving schemes of hyperbolic conservation laws. *SIAM Journal on Numerical Analysis*, 62(2):775–810, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cornalba:2025:MMC

[CF25] Federico Cornalba and Julian Fischer. Multilevel Monte Carlo methods for the dean-Kawasaki equation from fluctuating hydrodynamics. *SIAM Journal on Numerical Analysis*, 63(1):262–287, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170

(electronic). URL https://epubs.siam.org/doi/10.1137/23M1617345.

Carlini:2020:SLS

[CFF20] E. Carlini, A. Festa, and N. Forcadel. A semi-Lagrangian scheme for Hamilton–Jacobi–Bellman equations on networks. *SIAM Journal on Numerical Analysis*, 58(6):3165–3196, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chaumont-Frelet:2020:MHM

[CFV20] Théophile Chaumont-Frelet and Frédéric Valentin. A multiscale hybrid-mixed method for the Helmholtz equation in heterogeneous domains. *SIAM Journal on Numerical Analysis*, 58(2):1029–1067, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chaumont-Frelet:2022:FEP

[CFV22] Théophile Chaumont-Frelet and Patrick Vega. Frequency-explicit a posteriori error estimates for finite element discretizations of Maxwell's equations. *SIAM Journal on Numerical Analysis*, 60(4):1774–1798, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1421805.

Chaumont-Frelet:2023:REF

[CFV23] Théophile Chaumont-Frelet and Martin Vohralík. p-robust equilibrated flux reconstruction in $H(\mathrm{curl})$ based on local minimizations: Application to a posteriori analysis of the curl–curl problem. *SIAM Journal on Numerical Analysis*, 61(4):1783–1818, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M141909X.

Chaumont-Frelet:2024:FEP

[CFV24] Théophile Chaumont-Frelet and Patrick Vega. Frequency-explicit a posteriori error estimates for discontinuous Galerkin discretizations of Maxwell's equations. *SIAM Journal on Numerical Analysis*, 62(1):400–421, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cances:2020:CED

[CG20] Clément Cancès and Benoît Gaudeul. A convergent entropy diminishing finite volume scheme for a cross-diffusion system. *SIAM Journal on Numerical Analysis*, 58(5):2684–2710, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chopin:2024:HOM

[CG24] Nicolas Chopin and Mathieu

Gerber. Higher-order Monte Carlo through cubic stratification. *SIAM Journal on Numerical Analysis*, 62(1):229–247, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carstensen:2024:PEC

[CGN24] Carsten Carstensen, Benedikt Gräßle, and Neela Nataraj. A posteriori error control for fourth-order semilinear problems with quadratic nonlinearity. *SIAM Journal on Numerical Analysis*, 62(2):919–945, April 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Caceres:2020:NSE

[CGO20] Ernesto Cáceres, Johnny Guzmán, and Maxim Olshanskii. New stability estimates for an unfitted finite element method for two-phase Stokes problem. *SIAM Journal on Numerical Analysis*, 58(4):2165–2192, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chrysafinos:2020:PEE

[CGP20] Konstantinos Chrysafinos, Emmanuil H. Georgoulis, and Dimitra Plaka. A posteriori error estimates for the Allen–Cahn problem. *SIAM Journal on Numerical Analysis*, 58(5):2662–2683, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Caubet:2024:PEE

[CGP24] Fabien Caubet, Joyce Ghantous, and Charles Pierre. A priori error estimates of a Poisson equation with Ventcel boundary conditions on curved meshes. *SIAM Journal on Numerical Analysis*, 62(4):1929–1955, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1582497`.

Crane:2020:ASV

[CGR20] Daniel K. Crane, Mark S. Gockenbach, and Matthew J. Roberts. Approximating the singular value expansion of a compact operator. *SIAM Journal on Numerical Analysis*, 58(2):1295–1318, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chu:2025:RBL

[CGZ25] Tianyang Chu, Hailong Guo, and Zhimin Zhang. Recovery based linear finite element methods for Hamilton–Jacobi–Bellman equation with Cordes coefficients. *SIAM Journal on Numerical Analysis*, 63(1):23–53, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https:`

//epubs.siam.org/doi/10.1137/23M1579297.

Carle:2022:EAM

[CH22a] Constantin Carle and Marlis Hochbruck. Error analysis of multirate leapfrog-type methods for second-order semilinear ODEs. *SIAM Journal on Numerical Analysis*, 60 (5):2897–2924, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1427255.

Chen:2022:FED

[CH22b] Long Chen and Xuehai Huang. Finite elements for div- and divdiv-conforming symmetric tensors in arbitrary dimension. *SIAM Journal on Numerical Analysis*, 60(4):1932–1961, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1433708.

Chen:2021:SDG

[Che21] Chuchu Chen. A symplectic discontinuous Galerkin full discretization for stochastic Maxwell equations. *SIAM Journal on Numerical Analysis*, 59(4):2197–2217, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2023:RLO

[CHH23] Mingqing Chen, Jianguo Huang, and Xuehai Huang. A robust lower-order mixed finite element method for a strain gradient elastic model. *SIAM Journal on Numerical Analysis*, 61(5):2237–2260, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/22M151649X.

Chen:2021:APL

[CHJS21] Chuchu Chen, Jialing Hong, Diancong Jin, and Liying Sun. Asymptotically-preserving large deviations principles by stochastic symplectic methods for a linear stochastic oscillator. *SIAM Journal on Numerical Analysis*, 59(1):32–59, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cai:2022:EMD

[CHKL22] Zhenning Cai, Jingwei Hu, Yang Kuang, and Bo Lin. An entropic method for discrete systems with Gibbs entropy. *SIAM Journal on Numerical Analysis*, 60(4):2345–2371, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1429023.

Carle:2020:LCS

[CHS20] Constantin Carle, Marlis Hochbruck, and Andreas Sturm. On leapfrog-Chebyshev schemes. *SIAM Journal on*

Numerical Analysis, 58(4): 2404–2433, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cui:2021:SCF

[CHS21] Jianbo Cui, Jialin Hong, and Liying Sun. Strong convergence of full discretization for stochastic Cahn–Hilliard equation driven by additive noise. *SIAM Journal on Numerical Analysis*, 59(6):2866–2899, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carrillo:2024:MFE

[CHSV24] J. A. Carrillo, F. Hoffmann, A. M. Stuart, and U. Vaes. The mean-field ensemble Kalman filter: Near-Gaussian setting. *SIAM Journal on Numerical Analysis*, 62(6):2549–2587, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1628207`.

Chen:2023:SHD

[CHSZ23] Gang Chen, Daozhi Han, John R. Singler, and Yangwen Zhang. On the superconvergence of a hybridizable discontinuous Galerkin method for the Cahn–Hilliard equation. *SIAM Journal on Numerical Analysis*, 61(1):83–109, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1437780`.

Chen:2022:CVE

[CHW22] Chunyu Chen, Xuehai Huang, and Huayi Wei. H^m-conforming virtual elements in arbitrary dimension. *SIAM Journal on Numerical Analysis*, 60(6):3099–3123, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1440323`.

Chen:2024:VEM

[CHW24] Chunyu Chen, Xuehai Huang, and Huayi Wei. Virtual element methods without extrinsic stabilization. *SIAM Journal on Numerical Analysis*, 62(1):567–591, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2025:DFE

[CHZ25] Long Chen, Xuehai Huang, and Chao Zhang. Distributional finite element curl div complexes and application to quad curl problems. *SIAM Journal on Numerical Analysis*, 63(3):1078–1104, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1617400`.

Cao:2022:CPG

[CJZ22] Waixiang Cao, Lueling Jia, and Zhimin Zhang. A C^1 conforming Petrov–Galerkin method for convection–diffusion equations and superconvergence analysis over rectangular meshes. *SIAM Journal on Numerical Analysis*, 60(1):274–311, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1391006`.

Cai:2020:DFE

[CK20] Zhiqiang Cai and JaEun Ku. A dual finite element method for a singularly perturbed reaction–diffusion problem. *SIAM Journal on Numerical Analysis*, 58(3):1654–1673, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Contri:2025:EAB

[CKM25] Alessandro Contri, Balázs Kovács, and André Massing. Error analysis of BDF 1–6 time-stepping methods for the transient Stokes problem: Velocity and pressure estimates. *SIAM Journal on Numerical Analysis*, 63(4):1586–1616, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1606800`.

Carstensen:2023:NVE

[CKP23] Carsten Carstensen, Rekha Khot, and Amiya K. Pani. Nonconforming virtual elements for the biharmonic equation with Morley degrees of freedom on polygonal meshes. *SIAM Journal on Numerical Analysis*, 61(5):2460–2484, October 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2020:EMC

[CL20] Meng Chen and Leevan Ling. Extrinsic meshless collocation methods for PDEs on manifolds. *SIAM Journal on Numerical Analysis*, 58(2):988–1007, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carmona:2021:CAM

[CL21] René Carmona and Mathieu Laurière. Convergence analysis of machine learning algorithms for the numerical solution of mean field control and games I: The ergodic case. *SIAM Journal on Numerical Analysis*, 59 (3):1455–1485, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chernov:2024:AGC

[CL24] Alexey Chernov and Tùng Lê. Analytic and Gevrey class regularity for parametric elliptic eigenvalue problems and applications. *SIAM*

Journal on Numerical Analysis, 62(4):1874–1900, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1596296`.

Cai:2024:PMP

[CLL24] Zhenning Cai, Bo Lin, and Meixia Lin. A positive and moment-preserving Fourier spectral method. *SIAM Journal on Numerical Analysis*, 62(1):273–294, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cao:2025:NAD

[CLLY25] Jiachuan Cao, Buyang Li, Yanping Lin, and Fangyan Yao. Numerical approximation of discontinuous solutions of the semilinear wave equation. *SIAM Journal on Numerical Analysis*, 63(1):214–238, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1635879`.

Chen:2024:CSG

[CLLZ24] Ziang Chen, Jianfeng Lu, Yulong Lu, and Xiangxiong Zhang. On the convergence of Sobolev gradient flow for the Gross–Pitaevskii eigenvalue problem. *SIAM Journal on Numerical Analysis*, 62(2):667–691, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ciarlet:2023:OCB

[CLR23] Patrick Ciarlet, Jr., David Lassounon, and Mahran Rihani. An optimal control-based numerical method for scalar transmission problems with sign-changing coefficients. *SIAM Journal on Numerical Analysis*, 61(3):1316–1339, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1495998`.

Ceruti:2023:RAT

[CLS23] Gianluca Ceruti, Christian Lubich, and Dominik Sulz. Rank-adaptive time integration of tree tensor networks. *SIAM Journal on Numerical Analysis*, 61(1):194–222, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1473790`.

Ceruti:2021:TIT

[CLW21] Gianluca Ceruti, Christian Lubich, and Hanna Walach. Time integration of tree tensor networks. *SIAM Journal on Numerical Analysis*, 59(1):289–313, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carstensen:2021:AMFb

[CM21] Carsten Carstensen and Rui Ma. Adaptive mixed finite element methods for non-self-adjoint indefinite second-order elliptic PDEs with optimal rates. *SIAM Journal on Numerical Analysis*, 59(2):955–982, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2021:NEE

[CMZ21] Gang Chen, Peter B. Monk, and Yangwen Zhang. L^∞ norm error estimates for HDG methods applied to the Poisson equation with an application to the Dirichlet boundary control problem. *SIAM Journal on Numerical Analysis*, 59 (2):720–745, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carstensen:2021:AMFa

[CN21] Carsten Carstensen and Neela Nataraj. Adaptive Morley FEM for the von Kármán equations with optimal convergence rates. *SIAM Journal on Numerical Analysis*, 59(2): 696–719, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Colbrook:2022:CSE

[Col22] Matthew J. Colbrook. Computing semigroups with error control. *SIAM Journal on Numerical Analysis*, 60(1):396–422, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1398616`.

Colbrook:2023:MAD

[Col23] Matthew J. Colbrook. The mpEDMD algorithm for data-driven computations of measure-preserving dynamical systems. *SIAM Journal on Numerical Analysis*, 61(3):1585–1608, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1521407`.

Carstensen:2023:DGL

[CP23] Carsten Carstensen and Sophie Puttkammer. Direct guaranteed lower eigenvalue bounds with optimal a priori convergence rates for the bi-Laplacian. *SIAM Journal on Numerical Analysis*, 61(2):812–836, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M139921X`.

Cai:2025:PCN

[CQW25] Chaoyi Cai, Jianxian Qiu, and Kailiang Wu. Provably convergent Newton–Raphson method: Theoretically robust recovery of primitive variables in relativistic MHD. *SIAM Journal on Numerical Analysis*, 63(3):1128–1159, ????

2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1651873`.

Cuchiero:2024:IFD

[CRR24] Christa Cuchiero, Christoph Reisinger, and Stefan Rigger. Implicit and fully discrete approximation of the supercooled Stefan problem in the presence of blow-ups. *SIAM Journal on Numerical Analysis*, 62(3): 1145–1170, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Calvo:2022:UAL

[CS22a] María Cabrera Calvo and Katharina Schratz. Uniformly accurate low regularity integrators for the Klein–Gordon equation from the classical to NonRelativistic limit regime. *SIAM Journal on Numerical Analysis*, 60(2):888–912, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1415030`.

Cheng:2022:NLM

[CS22b] Qing Cheng and Jie Shen. A new Lagrange multiplier approach for constructing structure preserving schemes, II. Bound preserving. *SIAM Journal on Numerical Analysis*, 60(3):970–998, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M144877X`. See corrigendum [CS24].

Connors:2022:MDG

[CS22c] Jeffrey M. Connors and Kenneth C. Sockwell. A multirate discontinuous-Galerkin-in-time framework for interface-coupled problems. *SIAM Journal on Numerical Analysis*, 60(5):2373–2404, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1461149`.

Chen:2023:LOF

[CS23] Sheng Chen and Jie Shen. Log orthogonal functions in semi-infinite intervals: Approximation results and applications. *SIAM Journal on Numerical Analysis*, 61(1):110–134, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1466840`.

Cheng:2024:CNL

[CS24] Qing Cheng and Jie Shen. Corrigendum: A new Lagrange multiplier approach for constructing structure-preserving schemes, II. Bound preserving. *SIAM Journal on Numerical Analysis*, 62(6):2784–2787, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-

7170 (electronic). URL https://epubs.siam.org/doi/10.1137/24M1670895. See [CS22b].

Casas:2023:NOP

[CSSS23] Fernando Casas, Jesús María Sanz-Serna, and Luke Shaw. A new optimality property of Strang's splitting. *SIAM Journal on Numerical Analysis*, 61(3):1369–1385, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/22M1528690.

Chada:2020:TRW

[CST20] Neil K. Chada, Andrew M. Stuart, and Xin T. Tong. Tikhonov regularization within ensemble Kalman inversion. *SIAM Journal on Numerical Analysis*, 58(2):1263–1294, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cheng:2025:USE

[CSW25] Qing Cheng, Jie Shen, and Cheng Wang. Unique solvability and error analysis of a scheme using the Lagrange multiplier approach for gradient flows. *SIAM Journal on Numerical Analysis*, 63(2):772–799, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/24M1659303.

Cai:2023:OEE

[CSWY23] Wentao Cai, Weiwei Sun, Jilu Wang, and Zongze Yang. Optimal L^2 error estimates of unconditionally stable finite element schemes for the Cahn–Hilliard–Navier–Stokes system. *SIAM Journal on Numerical Analysis*, 61(3):1218–1245, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/22M1486844.

Carlini:2024:LGS

[CSZ24] Elisabetta Carlini, Francisco J. Silva, and Ahmad Zorkot. A Lagrange–Galerkin scheme for first order mean field game systems. *SIAM Journal on Numerical Analysis*, 62(1):167–198, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carstensen:2021:UHH

[CT21] Carsten Carstensen and Tien Tran. Unstabilized hybrid high-order method for a class of degenerate convex minimization problems. *SIAM Journal on Numerical Analysis*, 59(3):1348–1373, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carstensen:2025:LFH

[CT25] Carsten Carstensen and Ngoc Tien Tran. Locking-free hybrid high-order method for lin-

ear elasticity. *SIAM Journal on Numerical Analysis*, 63(2):827–853, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1650363`.

Carrillo:2024:SPP

[CWW24] José A. Carrillo, Li Wang, and Chaozhen Wei. Structure preserving primal dual methods for gradient flows with nonlinear mobility transport distances. *SIAM Journal on Numerical Analysis*, 62(1):376–399, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carstensen:2020:SFE

[CZZ20] Carsten Carstensen, Qilong Zhai, and Ran Zhang. A skeletal finite element method can compute lower eigenvalue bounds. *SIAM Journal on Numerical Analysis*, 58(1):109–124, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2022:SCR

[CZZ22] Zhiming Chen, Wenlong Zhang, and Jun Zou. Stochastic convergence of regularized solutions and their finite element approximations to inverse source problems. *SIAM Journal on Numerical Analysis*, 60(2):751–780, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1409779`.

Dong:2025:SPD

[DBS25] Yakun Dong, Kristian Bredies, and Hongpeng Sun. A stochastic preconditioned Douglas–Rachford splitting method for saddle-point problems. *SIAM Journal on Numerical Analysis*, 63(4):1691–1728, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1622490`.

Dolbeault:2024:RLS

[DC24] Matthieu Dolbeault and Moulay Abdellah Chkifa. Randomized least-squares with minimal oversampling and interpolation in general spaces. *SIAM Journal on Numerical Analysis*, 62(4):1515–1538, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M160178X`.

deDiego:2023:FEA

[dDFH23] Gonzalo G. de Diego, Patrick E. Farrell, and Ian J. Hewitt. On the finite element approximation of a semicoercive Stokes variational inequality arising in glaciology. *SIAM Journal on Numerical Analysis*, 61(1):1–25, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170

(electronic). URL `https://epubs.siam.org/doi/10.1137/21M1437640`.

Drelichman:2020:WSN

[DDO20] Irene Drelichman, Ricardo G. Durán, and Ignacio Ojea. A weighted setting for the numerical approximation of the Poisson problem with singular sources. *SIAM Journal on Numerical Analysis*, 58(1): 590–606, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Droniou:2020:HOM

[DE20] Jerome Droniou and Robert Eymard. High-order mass-lumped schemes for nonlinear degenerate elliptic equations. *SIAM Journal on Numerical Analysis*, 58(1):153–188, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dong:2022:HHO

[DE22] Zhaonan Dong and Alexandre Ern. Hybrid high-order and weak Galerkin methods for the biharmonic problem. *SIAM Journal on Numerical Analysis*, 60(5):2626–2656, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1408555`.

Dolz:2024:UQE

[DE24] Jürgen Dölz and David Ebert. On uncertainty quantification of eigenvalues and eigenspaces with higher multiplicity. *SIAM Journal on Numerical Analysis*, 62(1):422–451, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ding:2021:DLR

[DEL21] Zhiyan Ding, Lukas Einkemmer, and Qin Li. Dynamical low-rank integrator for the linear Boltzmann equation: Error analysis in the diffusion limit. *SIAM Journal on Numerical Analysis*, 59(4):2254–2285, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Desiderio:2022:CCV

[DFFS22] Luca Desiderio, Silvia Falletta, Matteo Ferrari, and Letizia Scuderi. On the coupling of the curved virtual element method with the one-equation boundary element method for 2D exterior Helmholtz problems. *SIAM Journal on Numerical Analysis*, 60(4):2099–2124, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1460776`.

Ditkowski:2020:TDE

[DGG20] Adi Ditkowski, Sigal Gottlieb, and Zachary J. Grant. Two-derivative error inhibiting schemes and enhanced error inhibiting schemes. *SIAM Journal on Numerical Anal-*

ysis, 58(6):3197–3225, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dong:2025:HES

[DGH25] Zhaonan Dong, Emmanuil H. Georgoulis, and Philip J. Herbert. A hypocoercivity-exploiting stabilized finite element method for Kolmogorov equation. *SIAM Journal on Numerical Analysis*, 63 (3):1105–1127, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M163373X`.

Duran:2020:AFE

[DGL20] Ricardo Durán, Lucia Gastaldi, and Ariel Lombardi. Analysis of finite element approximations of Stokes equations with NonSmooth data. *SIAM Journal on Numerical Analysis*, 58 (6):3309–3331, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ding:2024:SBG

[DGLT24] Zhiyan Ding, Martin Guerra, Qin Li, and Eitan Tadmor. Swarm-based gradient descent meets simulated annealing. *SIAM Journal on Numerical Analysis*, 62(6):2745–2781, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1657808`.

Deluzet:2025:HOS

[DGNP25] Fabrice Deluzet, Clément Guillet, Jacek Narski, and Paul Pace. High-order sparse-PIC methods: Analysis and numerical investigations. *SIAM Journal on Numerical Analysis*, 63(3):1281–1314, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1665143`.

Du:2022:DDL

[DGYZ22] Qiang Du, Yiqi Gu, Haizhao Yang, and Chao Zhou. The discovery of dynamics via linear multistep methods and deep learning: Error estimation. *SIAM Journal on Numerical Analysis*, 60 (4):2014–2045, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M140691X`.

Despres:2020:CSS

[DH20] Bruno Després and Maxime Herda. Computation of sum of squares polynomials from data points. *SIAM Journal on Numerical Analysis*, 58(3): 1719–1743, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Delourme:2021:CHB

[DH21] Bérangère Delourme and Laurence Halpern. A complex homographic best approximation problem. application to optimized Robin–Schwarz algorithms, and optimal control problems. *SIAM Journal on Numerical Analysis*, 59(3): 1769–1810, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dorich:2022:EIQ

[DH22] Benjamin Dörich and Marlis Hochbruck. Exponential integrators for quasilinear wave-type equations. *SIAM Journal on Numerical Analysis*, 60(3):1472–1493, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1410579`.

Dorich:2024:EBD

[DH24] Benjamin Dörich and Patrick Henning. Error bounds for discrete minimizers of the Ginzburg–Landau energy in the high-κ regime. *SIAM Journal on Numerical Analysis*, 62(3):1313–1343, June 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1560938`.

Dziubek:2025:IMF

[DHKN25] Andrea Dziubek, Kaibo Hu, Michael Karow, and Michael Neunteufel. Intrinsic mixed finite element methods for linear Cosserat elasticity. *SIAM Journal on Numerical Analysis*, 63(4):1833–1860, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1706578`.

Dong:2023:IHO

[DHM23] Zhaonan Dong, Moritz Hauck, and Roland Maier. An improved high-order method for elliptic multiscale problems. *SIAM Journal on Numerical Analysis*, 61(4):1918–1937, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M153392X`.

DeCaria:2024:APD

[DHS24] Victor P. DeCaria, Cory D. Hauck, and Stefan R. Schnake. An asymptotic preserving discontinuous Galerkin method for a linear Boltzmann semiconductor model. *SIAM Journal on Numerical Analysis*, 62(3):1067–1097, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

DeCaria:2020:ACR

[DIL+20] Victor DeCaria, Traian Iliescu, William Layton, Michael McLaughlin, and Michael Schneier. An artificial compression reduced order model.

SIAM Journal on Numerical Analysis, 58(1):565–589, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dereich:2024:EMS

[DJK24] Steffen Dereich, Arnulf Jentzen, and Sebastian Kassing. On the existence of minimizers in shallow residual ReLU neural network optimization landscapes. *SIAM Journal on Numerical Analysis*, 62(6):2640–2666, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1556241`.

Duc:2023:NAR

[DK23] Luu Hoang Duc and Peter Kloeden. Numerical attractors for rough differential equations. *SIAM Journal on Numerical Analysis*, 61(5):2381–2407, October 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Droniou:2020:GDM

[DL20a] Jérôme Droniou and Kim-Ngan Le. The gradient discretization method for slow and fast diffusion porous media equations. *SIAM Journal on Numerical Analysis*, 58(3):1965–1992, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Duprez:2020:FFE

[DL20b] Michel Duprez and Alexei Lozinski. ϕ-FEM: a finite element method on domains defined by level-sets. *SIAM Journal on Numerical Analysis*, 58(2):1008–1028, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dai:2025:NAP

[DLYZ25] Xiaoying Dai, Yan Li, Bin Yang, and Aihui Zhou. Numerical analysis of the parallel orbital-updating approach for eigenvalue problems. *SIAM Journal on Numerical Analysis*, 63(4):1886–1908, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1690084`.

Dautov:2020:EEL

[DLZ20] R. Z. Dautov, A. V. Lapin, and S. Zhang. Error estimates for Lagrange–Galerkin approximation of American options valuation. *SIAM Journal on Numerical Analysis*, 58(1):48–65, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

DeRyck:2024:WWP

[DMM24] Tim De Ryck, Siddhartha Mishra, and Roberto Molinaro. wPINNs: Weak physics informed neural networks for approximating entropy solu-

tions of hyperbolic conservation laws. *SIAM Journal on Numerical Analysis*, 62(2): 811–841, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dong:2021:RBP

[DMS21] Zhaonan Dong, Lorenzo Mascotto, and Oliver J. Sutton. Residual-based a posteriori error estimates for *hp*-discontinuous Galerkin discretizations of the biharmonic problem. *SIAM Journal on Numerical Analysis*, 59(3): 1273–1298, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Deckelnick:2021:EAF

[DN21] Klaus Deckelnick and Robert Nürnberg. Error analysis for a finite difference scheme for axisymmetric mean curvature flow of genus-0 surfaces. *SIAM Journal on Numerical Analysis*, 59(5):2698–2721, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Deckelnick:2023:DHC

[DN23] Klaus Deckelnick and Robert Nürnberg. Discrete hyperbolic curvature flow in the plane. *SIAM Journal on Numerical Analysis*, 61(4):1835–1857, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1493112`.

Demlow:2024:TPF

[DN24] Alan Demlow and Michael Neilan. A tangential and penalty-free finite element method for the surface Stokes problem. *SIAM Journal on Numerical Analysis*, 62(1): 248–272, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Despres:2022:OTC

[DNT22] B. Després, A. Nicolopoulos, and B. Thierry. Optimized transmission conditions in domain decomposition methods with cross-points for Helmholtz equation. *SIAM Journal on Numerical Analysis*, 60(5):2482–2507, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1421210`.

Diening:2024:PGE

[DRS24] Lars Diening, Julian Rolfes, and Abner J. Salgado. Pointwise gradient estimate of the Ritz projection. *SIAM Journal on Numerical Analysis*, 62 (3):1212–1225, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dolejsi:2021:PEE

[DRV21] Vít Dolejší, Filip Roskovec, and Miloslav Vlasák. A poste-

riori error estimates for higher order space-time Galerkin discretizations of nonlinear parabolic problems. *SIAM Journal on Numerical Analysis*, 59(3):1486–1509, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Du:2020:UEA

[DS20] Shukai Du and Francisco-Javier Sayas. A unified error analysis of hybridizable discontinuous Galerkin methods for the static Maxwell equations. *SIAM Journal on Numerical Analysis*, 58(2):1367–1391, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dozsa:2024:BM

[DSS24] Tamás Dózsa, Ferenc Schipp, and Alexandros Soumelidis. On Bernoulli's method. *SIAM Journal on Numerical Analysis*, 62(3):1259–1277, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Diening:2021:SSP

[DST21] Lars Diening, Johannes Storn, and Tabea Tscherpel. On the Sobolev and L^p-stability of the L^2-projection. *SIAM Journal on Numerical Analysis*, 59(5):2571–2607, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dong:2021:AND

[DSY21] Bin Dong, Zuowei Shen, and Jianbin Yang. Approximation from noisy data. *SIAM Journal on Numerical Analysis*, 59(5):2722–2745, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Duan:2025:MPE

[Dua25] Beiping Duan. Mesh-preserving and energy-stable parametric FEM for geometric flows of surfaces. *SIAM Journal on Numerical Analysis*, 63(2):619–640, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1671542`.

daVeiga:2023:AVS

[dVCN+23] L. Beirão da Veiga, C. Canuto, R. H. Nochetto, G. Vacca, and M. Verani. Adaptive VEM: Stabilization-free a posteriori error analysis and contraction property. *SIAM Journal on Numerical Analysis*, 61(2):457–494, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1458740`.

daVeiga:2024:RFE

[dVDV24] L. Beirão da Veiga, F. Dassi, and G. Vacca. Robust finite elements for linearized magnetohydrodynamics. *SIAM*

Journal on Numerical Analysis, 62(4):1539–1564, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1582783`.

Duru:2022:CES

[DWW22] Kenneth Duru, Siyang Wang, and Kenny Wiratama. A conservative and energy stable discontinuous spectral element method for the shifted wave equation in second order form. *SIAM Journal on Numerical Analysis*, 60(4):1631–1664, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1432922`.

Du:2022:CLL

[DXY22] Qiang Du, Hehu Xie, and Xiaobo Yin. On the convergence to local limit of nonlocal models with approximated interaction neighborhoods. *SIAM Journal on Numerical Analysis*, 60(4):2046–2068, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1448227`.

Eigel:2022:CAS

[EEST22] Martin Eigel, Oliver G. Ernst, Björn Sprungk, and Lorenzo Tamellini. On the convergence of adaptive stochastic collocation for elliptic partial differential equations with affine diffusion. *SIAM Journal on Numerical Analysis*, 60(2):659–687, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1364722`.

Epstein:2025:AES

[EFJ25] Charles L. Epstein, Fredrik Fryklund, and Shidong Jiang. An accurate and efficient scheme for function extension on smooth domains. *SIAM Journal on Numerical Analysis*, 63(4):1427–1453, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1622064`.

Esedoglu:2022:MSO

[EG22] Selim Esedoğlu and Jiajia Guo. A monotone, second order accurate scheme for curvature motion. *SIAM Journal on Numerical Analysis*, 60(5):2435–2447, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1466050`.

Ern:2023:DGA

[EG23] Alexandre Ern and Jean-Luc Guermond. The discontinuous Galerkin approximation of the grad–div and curl—curl operators in first-order form is involution-preserving and spectrally correct. *SIAM*

Journal on Numerical Analysis, 61(6):2940–2966, December 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ern:2025:SCS

[EG25] Alexandre Ern and Jean-Luc Guermond. Spectral correctness of the simplicial discontinuous Galerkin approximation of the first-order form of Maxwell's equations with discontinuous coefficients. *SIAM Journal on Numerical Analysis*, 63(2):661–684, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1638331`.

Engstrom:2022:CAN

[EH22] Emil Engström and Eskil Hansen. Convergence analysis of the nonoverlapping Robin–Robin method for nonlinear elliptic equations. *SIAM Journal on Numerical Analysis*, 60(2):585–605, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1414942`.

Einkemmer:2024:APE

[EHK24] Lukas Einkemmer, Jingwei Hu, and Jonas Kusch. Asymptotic-preserving and energy stable dynamical low-rank approximation. *SIAM Journal on Numerical Analysis*, 62(1):73–92, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Evans:2020:PAA

[EPRX20] Claire Evans, Sara Pollock, Leo G. Rebholz, and Mengying Xiao. A proof that Anderson acceleration improves the convergence rate in linearly converging fixed-point methods (but not in those converging quadratically). *SIAM Journal on Numerical Analysis*, 58 (1):788–810, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Egger:2020:SOM

[ER20] Herbert Egger and Bogdan Radu. On a second-order multipoint flux mixed finite element methods on hybrid meshes. *SIAM Journal on Numerical Analysis*, 58(3):1822–1844, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Egger:2021:SOF

[ER21] Herbert Egger and Bogdan Radu. A second-order finite element method with mass lumping for Maxwell's equations on tetrahedra. *SIAM Journal on Numerical Analysis*, 59(2):864–885, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Eriksson:2021:SPA

[EW21] Sofia Eriksson and Siyang Wang. Summation-by-parts approximations of the second derivative: Pseudoinverse and revisitation of a high order accurate operator. *SIAM Journal on Numerical Analysis*, 59 (5):2669–2697, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fairag:2020:TLG

[FA20] Faisal A. Fairag and Johnson D. Audu. Two-level Galerkin mixed finite element method for Darcy–Forchheimer model in porous media. *SIAM Journal on Numerical Analysis*, 58(1):234–253, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Feppon:2022:AMC

[FA22] Florian Feppon and Habib Ammari. Analysis of a Monte–Carlo Nystrom method. *SIAM Journal on Numerical Analysis*, 60(3):1226–1250, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1432338`.

Foster:2024:HOS

[FdRS24] James M. Foster, Gonçalo dos Reis, and Calum Strange. High order splitting methods for SDEs satisfying a commutativity condition. *SIAM Journal on Numerical Analysis*, 62(1): 500–532, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fitzpatrick:2021:CME

[FDvW21] Brian Fitzpatrick, Enzo De Sena, and Toon van Waterschoot. On the convergence of the multipole expansion method. *SIAM Journal on Numerical Analysis*, 59(5):2473–2499, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fang:2023:CRP

[FGK23] Zhou Fang, Ankit Gupta, and Mustafa Khammash. Convergence of regularized particle filters for stochastic reaction networks. *SIAM Journal on Numerical Analysis*, 61(2):399–430, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1453025`.

Farrell:2020:NAU

[FGOS20] P. E. Farrell, P. A. Gazca-Orozco, and E. Süli. Numerical analysis of unsteady implicitly constituted incompressible fluids: 3-field formulation. *SIAM Journal on Numerical Analysis*, 58(1):757–787, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fischer:2021:PEA

[FGP21] Julian Fischer, Dietmar Gallistl, and Daniel Peterseim. A priori error analysis of a numerical stochastic homogenization method. *SIAM Journal on Numerical Analysis*, 59 (2):660–674, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fuhrer:2024:RDT

[FH24] Thomas Führer and Norbert Heuer. Robust DPG test spaces and Fortin operators — the H^1 and $H(\mathrm{div})$ cases. *SIAM Journal on Numerical Analysis*, 62(2):718–748, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fuhrer:2022:MSO

[FHK22] Thomas Führer, Norbert Heuer, and Michael Karkulik. MINRES for second-order PDEs with singular data. *SIAM Journal on Numerical Analysis*, 60(3):1111–1135, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1457023`.

Fuhrer:2023:DPG

[FHN23] Thomas Führer, Norbert Heuer, and Antti H. Niemi. A discontinuous Petrov–Galerkin method for Reissner–Mindlin plates. *SIAM Journal on Numerical Analysis*, 61(2):995–1017, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1498838`.

Feng:2021:EEU

[FHW21] Xinlong Feng, Xueling Huang, and Kun Wang. Error estimate of unconditionally stable and decoupled linear positivity-preserving FEM for the chemotaxis-Stokes equations. *SIAM Journal on Numerical Analysis*, 59(6):3052–3076, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fu:2022:MDC

[FK22] Guosheng Fu and Wenzheng Kuang. A monolithic divergence-conforming HDG scheme for a linear fluid-structure interaction model. *SIAM Journal on Numerical Analysis*, 60(2):631–658, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1385950`.

Faustmann:2022:LCF

[FKM22] Markus Faustmann, Michael Karkulik, and Jens Markus Melenk. Local convergence of the FEM for the integral fractional Laplacian. *SIAM Journal on Numerical Analysis*, 60(3):1055–1082, ????

2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/20M1343853.

Fjordholm:2025:CFD

[FKP25] Ulrik S. Fjordholm, Kenneth H. Karlsen, and Peter H. C. Pang. Convergent finite difference schemes for stochastic transport equations. *SIAM Journal on Numerical Analysis*, 63(1):149–192, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/23M159946X.

Feng:2021:NSF

[FL21] Xiaobing Feng and Thomas Lewis. A narrow-stencil finite difference method for approximating viscosity solutions of Hamilton–Jacobi–Bellman equations. *SIAM Journal on Numerical Analysis*, 59(2):886–924, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Feng:2023:DFE

[FLH23] Xinlong Feng, Xiaoli Lu, and Yinnian He. Difference finite element method for the 3D steady Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 61(1):167–193, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1450872.

Feng:2024:SGI

[FLLT24] Yuanyuan Feng, Lei Li, Jian-Guo Liu, and Tao Tang. Some Grönwall inequalities for a class of discretizations of time fractional equations on nonuniform meshes. *SIAM Journal on Numerical Analysis*, 62(5):2196–2221, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/24M1631614.

Feng:2021:HOM

[FLM21] Xiaobing Feng, Buyang Li, and Shu Ma. High-order mass- and energy-conserving SAV–Gauss collocation finite element methods for the nonlinear Schrödinger equation. *SIAM Journal on Numerical Analysis*, 59(3):1566–1591, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Foster:2020:OPA

[FLO20] James Foster, Terry Lyons, and Harald Oberhauser. An optimal polynomial approximation of Brownian motion. *SIAM Journal on Numerical Analysis*, 58(3):1393–1421, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fischer:2021:WTP

[FM21] Julian Fischer and Daniel Matthes. The waiting time phenomenon in spatially discretized porous medium and thin film equations. *SIAM Journal on Numerical Analysis*, 59(1):60–87, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Faustmann:2023:ECH

[FMMS23] Markus Faustmann, Carlo Marcati, Jens Markus Melenk, and Christoph Schwab. Exponential convergence of *hp*-FEM for the integral fractional Laplacian in polygons. *SIAM Journal on Numerical Analysis*, 61(6):2601–2622, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fjordholm:2022:WPC

[FMR22] Ulrik S. Fjordholm, Markus Musch, and Nils H. Risebro. Well-posedness and convergence of a finite volume method for conservation laws on networks. *SIAM Journal on Numerical Analysis*, 60(2):606–630, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M145001X`.

Feischl:2020:SCE

[FP20] Michael Feischl and Daniel Peterseim. Sparse compression of expected solution operators. *SIAM Journal on Numerical Analysis*, 58(6):3144–3164, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fjordholm:2021:SOA

[FR21] Ulrik S. Fjordholm and Adrian M. Ruf. Second-order accurate TVD numerical methods for nonlocal nonlinear conservation laws. *SIAM Journal on Numerical Analysis*, 59 (3):1167–1194, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fang:2023:OEB

[FV23] Di Fang and Albert Tres Vilanova. Observable error bounds of the time-splitting scheme for quantum-classical molecular dynamics. *SIAM Journal on Numerical Analysis*, 61(1):26–44, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1462349`.

Garcia-Archilla:2023:PRI

[GAJN23] Bosco García-Archilla, Volker John, and Julia Novo. POD-ROMs for incompressible flows including snapshots of the temporal derivative of the full order solution. *SIAM Journal on Numerical Analysis*, 61(3):1340–1368, ???? 2023. CODEN SJNAAM. ISSN

0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1503853`.

Garcia-Archilla:2025:PRM

[GAJN25] Bosco García-Archilla, Volker John, and Julia Novo. POD-ROM methods: From a finite set of snapshots to continuous-in-time approximations. *SIAM Journal on Numerical Analysis*, 63(2):800–826, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1645681`.

Gallistl:2021:PEA

[Gal21] Dietmar Gallistl. A posteriori error analysis of the inf-sup constant for the divergence. *SIAM Journal on Numerical Analysis*, 59(1):249–264, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Garcia-Archilla:2020:UTE

[GANT20] Bosco García-Archilla, Julia Novo, and Edriss S. Titi. Uniform in time error estimates for a finite element method applied to a downscaling data assimilation algorithm for the Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 58(1):410–429, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gawlik:2020:HOA

[Gaw20] Evan S. Gawlik. High-order approximation of Gaussian curvature with Regge finite elements. *SIAM Journal on Numerical Analysis*, 58(3):1801–1821, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Guastavino:2020:CRS

[GB20] Sabrina Guastavino and Federico Benvenuto. Convergence rates of spectral regularization methods: a comparison between ill-posed inverse problems and statistical kernel learning. *SIAM Journal on Numerical Analysis*, 58(6):3504–3529, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Georgoulis:2021:HCF

[Geo21] Emmanuil H. Georgoulis. Hypocoercivity-compatible finite element methods for the long-time computation of Kolmogorov's equation. *SIAM Journal on Numerical Analysis*, 59(1):173–194, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gao:2020:ORP

[GFSZ20] Wenwu Gao, Gregory E. Fasshauer, Xingping Sun, and Xuan Zhou. Optimality and regularization properties of quasi-interpolation: Deter-

ministic and stochastic approaches. *SIAM Journal on Numerical Analysis*, 58(4): 2059–2078, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Guillen-Gonzalez:2023:CTD

[GGC23] Francisco Guillén-González and André Luiz Corrêa Vianna Filho. Convergence of a time discrete scheme for a chemotaxis-consumption model. *SIAM Journal on Numerical Analysis*, 61(5):2509–2533, October 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gottlieb:2022:HOS

[GGHS22] Sigal Gottlieb, Zachary J. Grant, Jingwei Hu, and Ruiwen Shu. High order strong stability preserving Multi-Derivative implicit and IMEX Runge–Kutta methods with asymptotic preserving properties. *SIAM Journal on Numerical Analysis*, 60(1):423–449, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1403175`.

Gedicke:2021:PDR

[GGPS21] Joscha Gedicke, Sjoerd Geevers, Ilaria Perugia, and Joachim Schöberl. A polynomial-degree-robust a posteriori error estimator for Nédélec discretizations of magnetostatic problems. *SIAM Journal on Numerical Analysis*, 59(4): 2237–2253, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gander:2012:DDA

[GH12] Martin J. Gander and Ronald D. Haynes. Domain decomposition approaches for mesh generation via the equidistribution principle. *SIAM Journal on Numerical Analysis*, 50(4):2111–2135, ???? 2012. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). See corrigendum [GHK25].

Guo:2024:IWN

[GH24] Hongxia Guo and Guanghui Hu. Inverse wave-number-dependent source problems for the Helmholtz equation. *SIAM Journal on Numerical Analysis*, 62(3):1372–1393, June 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1572696`.

Gander:2025:CDD

[GHK25] Martin J. Gander, Ronald D. Haynes, and Felix Kwok. Corrigendum: Domain decomposition approaches for mesh generation via the equidistribution principle. *SIAM Journal on Numerical Analysis*, 63(1):461–467, ???? 2025. CODEN SJNAAM. ISSN

0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1693453`. See [GH12].

Gu:2023:SDE

[GHLY23] Yiqi Gu, John Harlim, Senwei Liang, and Haizhao Yang. Stationary density estimation of Itô diffusions using deep learning. *SIAM Journal on Numerical Analysis*, 61(1):45–82, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1445363`.

Griebel:2020:MQE

[GHM20] Michael Griebel, Helmut Harbrecht, and Michael D. Multerer. Multilevel quadrature for elliptic parametric partial differential equations in case of polygonal approximations of curved domains. *SIAM Journal on Numerical Analysis*, 58 (1):684–705, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gander:2021:MAC

[GHM21] Martin J. Gander, Julian Hennicker, and Roland Masson. Modeling and analysis of the coupling in discrete fracture matrix models. *SIAM Journal on Numerical Analysis*, 59 (1):195–218, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Guth:2024:GDT

[GK24] Philipp A. Guth and Vesa Kaarnioja. Generalized dimension truncation error analysis for high-dimensional numerical integration: Lognormal setting and beyond. *SIAM Journal on Numerical Analysis*, 62(2): 872–892, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Guth:2025:QMC

[GK25] Philipp A. Guth and Vesa Kaarnioja. Quasi-Monte Carlo for partial differential equations with generalized Gaussian input uncertainty. *SIAM Journal on Numerical Analysis*, 63(4):1666–1690, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1708164`.

Grekas:2022:AEM

[GKMR22] Georgios Grekas, Konstantinos Koumatos, Charalambos Makridakis, and Phoebus Rosakis. Approximations of energy minimization in cell-induced phase transitions of fibrous biomaterials: Γ-convergence analysis. *SIAM Journal on Numerical Analysis*, 60(2):715–750, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M137286X`.

Gjerde:2021:MAP

[GKN21] Ingeborg G. Gjerde, Kundan Kumar, and Jan M. Nordbotten. A mixed approach to the Poisson problem with line sources. *SIAM Journal on Numerical Analysis*, 59(2):1117–1139, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gilbert:2023:APF

[GKS23] Alexander D. Gilbert, Frances Y. Kuo, and Ian H. Sloan. Analysis of preintegration followed by quasi-Monte Carlo integration for distribution functions and densities. *SIAM Journal on Numerical Analysis*, 61(1):135–166, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M146658X`.

Gilbert:2025:DEE

[GKS25] Alexander D. Gilbert, Frances Y. Kuo, and Abirami Srikumar. Density estimation for elliptic PDE with random input by preintegration and quasi-Monte Carlo methods. *SIAM Journal on Numerical Analysis*, 63(3):1025–1054, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1640070`.

Gander:2024:NTDa

[GL24a] Martin J. Gander and Liu-Di Lu. New time domain decomposition methods for parabolic optimal control problems I: Dirichlet–Neumann and Neumann–Dirichlet algorithms. *SIAM Journal on Numerical Analysis*, 62(4):2048–2070, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1584502`.

Gander:2024:NTDb

[GL24b] Martin J. Gander and Liu-Di Lu. New time domain decomposition methods for parabolic optimal control problems II: Neumann–Neumann algorithms. *SIAM Journal on Numerical Analysis*, 62(6):2588–2610, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1634424`.

Guglielmi:2025:TDU

[GL25] Nicola Guglielmi and Christian Lubich. Transient dynamics under structured perturbations: Bridging unstructured and structured pseudospectra. *SIAM Journal on Numerical Analysis*, 63(2):908–930, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1630876`.

Glaubitz:2020:SHO

[Gla20] Jan Glaubitz. Stable high order quadrature rules for scattered data and general weight functions. *SIAM Journal on Numerical Analysis*, 58(4): 2144–2164, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gopalakrishnan:2020:MCM

[GLS20] Jay Gopalakrishnan, Philip L. Lederer, and Joachim Schöberl. A mass conserving mixed stress formulation for Stokes flow with weakly imposed stress symmetry. *SIAM Journal on Numerical Analysis*, 58 (1):706–732, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Guglielmi:2023:RMD

[GLS23] Nicola Guglielmi, Christian Lubich, and Stefano Sicilia. Rank-1 matrix differential equations for structured eigenvalue optimization. *SIAM Journal on Numerical Analysis*, 61(4):1737–1762, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1498735`.

Gui:2022:CRF

[GLW22] Xinping Gui, Buyang Li, and Jilu Wang. Convergence of renormalized finite element methods for heat flow of harmonic maps. *SIAM Journal on Numerical Analysis*, 60(1):312–338, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1402212`.

Gomez:2022:STT

[GM22] Sergio Gómez and Andrea Moiola. A space-time Trefftz discontinuous Galerkin method for the linear Schrödinger equation. *SIAM Journal on Numerical Analysis*, 60 (2):688–714, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1426079`.

Gallistl:2024:LIT

[GM24] Dietmar Gallistl and Roland Maier. Localized implicit time stepping for the wave equation. *SIAM Journal on Numerical Analysis*, 62 (4):1589–1608, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1582618`.

Gomez:2024:STV

[GMMP24] Sergio Gomez, Lorenzo Mascotto, Andrea Moiola, and Ilaria Perugia. Space-time virtual elements for the heat equation. *SIAM Journal on Numerical Analysis*, 62(1):

199–228, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gudi:2022:HHO

[GMP22] Thirupathi Gudi, Gouranga Mallik, and Tamal Pramanick. A hybrid high-order method for quasilinear elliptic problems of nonmonotone type. *SIAM Journal on Numerical Analysis*, 60(4):2318–2344, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1412050`.

Gong:2022:AAD

[GMSZ22] Wei Gong, Mariano Mateos, John Singler, and Yangwen Zhang. Analysis and approximations of Dirichlet boundary control of Stokes flows in the energy space. *SIAM Journal on Numerical Analysis*, 60(1):450–474, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1406799`.

Glaubitz:2023:SPO

[GNÖ23] Jan Glaubitz, Jan Nordström, and Philipp Öffner. Summation-by-parts operators for general function spaces. *SIAM Journal on Numerical Analysis*, 61(2):733–754, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1470141`.

Gergelits:2020:GSS

[GNS20] Tomás Gergelits, Bjørn Fredrik Nielsen, and Zdenek Strakos. Generalized spectrum of second order differential operators. *SIAM Journal on Numerical Analysis*, 58(4):2193–2211, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gutleb:2020:SSM

[GO20] Timon S. Gutleb and Sheehan Olver. A sparse spectral method for Volterra integral equations using orthogonal polynomials on the triangle. *SIAM Journal on Numerical Analysis*, 58(3):1993–2018, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Glusa:2021:EEO

[GO21] Christian Glusa and Enrique Otárola. Error estimates for the optimal control of a parabolic fractional PDE. *SIAM Journal on Numerical Analysis*, 59(2):1140–1165, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gallistl:2023:CLB

[GO23] Dietmar Gallistl and Vladislav Olkhovskiy. Computational lower bounds of the Maxwell

eigenvalues. *SIAM Journal on Numerical Analysis*, 61(2):539–561, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1461447`.

Golse:2022:SRT

[GP22] François Golse and Olivier R. Pironneau. Stratified radiative transfer in a fluid and numerical applications to Earth science. *SIAM Journal on Numerical Analysis*, 60(5):2963–3000, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1459009`.

Gonzalez-Pinto:2020:CNO

[GPHHA20] S. González-Pinto, E. Hairer, and D. Hernandez-Abreu. Convergence in ℓ_2 and ℓ_∞ norm of one-stage AMF-W-methods for parabolic problems. *SIAM Journal on Numerical Analysis*, 58(2):1117–1137, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Guermond:2020:PAP

[GPR20] Jean-Luc Guermond, Bojan Popov, and Jean Ragusa. Positive and asymptotic preserving approximation of the radiation transport equation. *SIAM Journal on Numerical Analysis*, 58(1):519–540, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gallistl:2021:THD

[GS21] Dietmar Gallistl and Mira Schedensack. Taylor–Hood discretization of the Reissner–Mindlin plate. *SIAM Journal on Numerical Analysis*, 59(3):1195–1217, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gantner:2022:WPF

[GS22] Gregor Gantner and Rob Stevenson. A well-posed first order system least squares formulation of the instationary Stokes equations. *SIAM Journal on Numerical Analysis*, 60(3):1607–1629, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1432600`.

Gao:2023:OAN

[GS23] Huadong Gao and Weiwei Sun. Optimal analysis of nonuniform Galerkin-mixed finite element approximations to the Ginzburg–Landau equations in superconductivity. *SIAM Journal on Numerical Analysis*, 61(2):929–951, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1483670`.

Galkowski:2025:SPE

[GS25a] J. Galkowski and E. A. Spence. Sharp preasymptotic error bounds for the Helmholtz h-FEM. *SIAM Journal on Numerical Analysis*, 63(1):1–22, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1546178`.

Gander:2025:RBP

[GS25b] M. Gander and A. Schädle. On the relationship between the pole condition, absorbing boundary conditions, and perfectly matched layers. *SIAM Journal on Numerical Analysis*, 63(3):1209–1231, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1690916`.

Goda:2024:UMQ

[GSM24] Takashi Goda, Kosuke Suzuki, and Makoto Matsumoto. A universal median quasi-Monte Carlo integration. *SIAM Journal on Numerical Analysis*, 62 (1):533–566, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gong:2021:FEA

[GSW21] Bo Gong, Jiguang Sun, and Xinming Wu. Finite element approximation of the modified Maxwell's Stekloff eigenvalues. *SIAM Journal on Numerical Analysis*, 59(5):2430–2448, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Graham:2020:DDL

[GSZ20] Ivan G. Graham, Euan A. Spence, and Jun Zou. Domain decomposition with local impedance conditions for the Helmholtz equation with absorption. *SIAM Journal on Numerical Analysis*, 58(5): 2515–2543, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Guo:2021:SPM

[Guo21] Ruchi Guo. Solving parabolic moving interface problems with dynamical immersed spaces on unfitted meshes: Fully discrete analysis. *SIAM Journal on Numerical Analysis*, 59(2):797–828, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gosse:2020:TTD

[GV20] Laurent Gosse and Nicolas Vauchelet. A truly two-dimensional, asymptotic-preserving scheme for a discrete model of radiative transfer. *SIAM Journal on Numerical Analysis*, 58(2):1092–1116, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gomez-Vargas:2023:TSP

[GVMRBV23] Bryan Gómez-Vargas, Kent-André Mardal, Ricardo Ruiz-Baier, and Vegard Vinje. Twofold saddle-point formulation of Biot poroelasticity with stress-dependent diffusion. *SIAM Journal on Numerical Analysis*, 61 (3):1449–1481, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1449695`.

Gabbard:2024:LGF

[GvR24] James Gabbard and Wim M. van Rees. Lattice Green's functions for high-order finite difference stencils. *SIAM Journal on Numerical Analysis*, 62 (1):25–47, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gander:2020:DBP

[GW20] Martin J. Gander and Shu-Lin Wu. A diagonalization-based parareal algorithm for dissipative and wave propagation problems. *SIAM Journal on Numerical Analysis*, 58(5): 2981–3009, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gudibanda:2022:CAF

[GWY22] Varun M. Gudibanda, Franziska Weber, and Yukun Yue. Convergence analysis of a fully discrete energy-stable numerical scheme for the Q-Tensor Flow of liquid crystals. *SIAM Journal on Numerical Analysis*, 60(4):2150–2181, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1383550`.

Gong:2021:DSG

[GZ21] Wei Gong and Shengfeng Zhu. On discrete shape gradients of boundary type for PDE-constrained shape optimization. *SIAM Journal on Numerical Analysis*, 59(3):1510–1541, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Halla:2021:ARC

[Hal21] Martin Halla. Analysis of radial complex scaling methods: Scalar resonance problems. *SIAM Journal on Numerical Analysis*, 59(4):2054–2074, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Halla:2022:RCS

[Hal22] Martin Halla. Radial complex scaling for anisotropic scalar resonance problems. *SIAM Journal on Numerical Analysis*, 60(5):2713–2730, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1455747`.

Hanot:2023:AOP

[Han23] Marien-Lorenzo Hanot. An arbitrary order and pointwise divergence-free finite element scheme for the incompressible 3D Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 61(2):784–811, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1443686`.

Haji-Ali:2022:AMM

[HAST22] Abdul-Lateef Haji-Ali, Jonathan Spence, and Aretha L. Teckentrup. Adaptive multilevel Monte Carlo for probabilities. *SIAM Journal on Numerical Analysis*, 60(4):2125–2149, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1447064`.

Huang:2024:ACC

[HD24] Kuang Huang and Qiang Du. Asymptotic compatibility of a class of numerical schemes for a nonlocal traffic flow model. *SIAM Journal on Numerical Analysis*, 62(3):1119–1144, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Helin:2024:LSA

[Hel24] Tapio Helin. Least squares approximations in linear statistical inverse learning problems. *SIAM Journal on Numerical Analysis*, 62(4):2025–2047, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1538600`.

He:2022:OMN

[HG22] Wen-Ming He and Hailong Guo. Optimal maximum norm estimates for virtual element methods. *SIAM Journal on Numerical Analysis*, 60(3):1251–1280, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1420186`.

Han:2024:LHD

[HHL24] Jiequn Han, Ruimeng Hu, and Jihao Long. Learning high-dimensional McKean–Vlasov forward–backward stochastic differential equations with general distribution dependence. *SIAM Journal on Numerical Analysis*, 62(1):1–24, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hiemstra:2020:TEM

[HHM+20] René R. Hiemstra, Thomas J. R. Hughes, Carla Manni, Hendrik Speleers, and Deepesh Toshniwal. A Tchebycheffian extension of multidegree B-splines: Algorithmic computation and properties. *SIAM Journal on Numerical Analysis*, 58(2):1138–1163, ????

2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Herremans:2023:RSR

[HHT23] Astrid Herremans, Daan Huybrechs, and Lloyd N. Trefethen. Resolution of singularities by rational functions. *SIAM Journal on Numerical Analysis*, 61(6):2580–2600, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Habbershaw:2025:IUM

[HHW25] Evan Habbershaw, Cory D. Hauck, and Steven M. Wise. Implicit update of the moment equations for a multi-species, homogeneous BGK model. *SIAM Journal on Numerical Analysis*, 63(2):881–907, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M165421X`.

Hiptmair:2020:OOP

[HJHUT20] Ralf Hiptmair, Carlos Jerez-Hanckes, and Carolina Urzúa-Torres. Optimal operator preconditioning for Galerkin boundary element methods on 3-dimensional screens. *SIAM Journal on Numerical Analysis*, 58(1):834–857, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hutzenthaler:2020:MPA

[HK20] Martin Hutzenthaler and Thomas Kruse. Multilevel Picard approximations of high-dimensional semilinear parabolic differential equations with gradient-dependent nonlinearities. *SIAM Journal on Numerical Analysis*, 58(2):929–961, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ha:2021:IAF

[HKYY21] Youngsoo Ha, Chang Ho Kim, Hyoseon Yang, and Jungho Yoon. Improving accuracy of the fifth-order WENO scheme by using the exponential approximation space. *SIAM Journal on Numerical Analysis*, 59(1):143–172, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Heltai:2023:AFE

[HL23] Luca Heltai and Wenyu Lei. Adaptive finite element approximations for elliptic problems using regularized forcing data. *SIAM Journal on Numerical Analysis*, 61(2):431–456, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1455991`.

Hauck:2025:LOD

[HL25a] Moritz Hauck and Alexei Lozinski. A localized orthog-

onal decomposition method for heterogeneous Stokes problems. *SIAM Journal on Numerical Analysis*, 63(4): 1617–1641, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1704166`.

Hu:2025:HTL

[HL25b] Qiya Hu and Ziyi Li. A hybrid two-level weighted Schwarz method for Helmholtz equations. *SIAM Journal on Numerical Analysis*, 63 (2):716–743, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1637994`.

Hu:2022:CFE

[HLM22] Jun Hu, Yizhou Liang, and Rui Ma. Conforming finite element DIVDIV complexes and the application for the linearized Einstein–Bianchi system. *SIAM Journal on Numerical Analysis*, 60(3):1307–1330, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1404235`.

Hou:2025:ESM

[HLQZ25] Dianming Hou, Xiaoli Li, Zhonghua Qiao, and Nan Zheng. Energy stable and maximum bound principle preserving schemes for the *Q*-tensor flow of liquid crystals. *SIAM Journal on Numerical Analysis*, 63(2):854–880, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1598866`.

Hairer:2023:LMR

[HLS23] Ernst Hairer, Christian Lubich, and Yanyan Shi. Leapfrog methods for relativistic charged-particle dynamics. *SIAM Journal on Numerical Analysis*, 61(6):2844–2858, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Huo:2021:ESP

[HLTW21] Xiaokai Huo, Hailiang Liu, Athanasios E. Tzavaras, and Shuaikun Wang. An energy stable and positivity-preserving scheme for the Maxwell–Stefan diffusion system. *SIAM Journal on Numerical Analysis*, 59(5):2321–2345, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Han:2022:SWE

[HM22] Bin Han and Michelle Michelle. Sharp wavenumber-explicit stability bounds for 2D Helmholtz equations. *SIAM Journal on Numerical Analysis*, 60(4):1985–2013, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https:`

//epubs.siam.org/doi/10.1137/21M1446186.

Hannukainen:2022:DSL

[HMO22] Antti Hannukainen, Jarmo Malinen, and Antti Ojalammi. Distributed solution of Laplacian eigenvalue problems. *SIAM Journal on Numerical Analysis*, 60(1):76–103, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/20M1342653.

Hong:2021:RNA

[HN21] Youngjoon Hong and David Nicholls. A rigorous numerical analysis of the transformed field expansion method for diffraction by periodic, layered structures. *SIAM Journal on Numerical Analysis*, 59 (1):456–476, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hoyt:2020:MDR

[HO20] Christopher R. Hoyt and Art B. Owen. Mean dimension of ridge functions. *SIAM Journal on Numerical Analysis*, 58 (2):1195–1216, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hoyt:2024:MDR

[HO24] Christopher Hoyt and Art B. Owen. Mean dimension of radial basis functions. *SIAM Journal on Numerical Analysis*, 62(3):1191–1211, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Henning:2020:SGF

[HP20] Patrick Henning and Daniel Peterseim. Sobolev gradient flow for the Gross–Pitaevskii eigenvalue problem: Global convergence and computational efficiency. *SIAM Journal on Numerical Analysis*, 58 (3):1744–1772, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hure:2021:DNN

[HPBL21] Côme Huré, Huyên Pham, Achref Bachouch, and Nicolas Langrené. Deep neural networks algorithms for stochastic control problems on finite horizon: Convergence analysis. *SIAM Journal on Numerical Analysis*, 59(1):525–557, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hu:2021:NSC

[HQY21] Jingwei Hu, Kunlun Qi, and Tong Yang. A new stability and convergence proof of the Fourier–Galerkin spectral method for the spatially homogeneous Boltzmann equation. *SIAM Journal on Numerical Analysis*, 59(2):613–633, ???? 2021. CODEN

SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hu:2020:NLS

[HS20] Qiya Hu and Rongrong Song. A novel least squares method for Helmholtz equations with large wave numbers. *SIAM Journal on Numerical Analysis*, 58(5):3091–3123, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Huang:2021:SEA

[HS21] Fukeng Huang and Jie Shen. Stability and error analysis of a class of high-order IMEX schemes for Navier–Stokes equations with periodic boundary conditions. *SIAM Journal on Numerical Analysis*, 59(6):2926–2954, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Huang:2023:SEA

[HS23] Fukeng Huang and Jie Shen. Stability and error analysis of a second-order consistent splitting scheme for the Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 61 (5):2408–2433, October 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Huang:2024:NCB

[HS24] Fukeng Huang and Jie Shen. On a new class of BDF and IMEX schemes for parabolic type equations. *SIAM Journal on Numerical Analysis*, 62 (4):1609–1637, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1612986`.

Horning:2020:FDE

[HT20] Andrew Horning and Alex Townsend. FEAST for differential eigenvalue problems. *SIAM Journal on Numerical Analysis*, 58(2):1239–1262, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hu:2021:CHX

[Hu21] Qiya Hu. Convergence of the Hiptmair–Xu preconditioner for Maxwell's equations with jump coefficients (i): Extensions of the regular decomposition. *SIAM Journal on Numerical Analysis*, 59(5):2500–2535, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hu:2023:CHX

[Hu23] Qiya Hu. Convergence of the Hiptmair–Xu preconditioner for $H(\mathrm{curl})$-elliptic problems with jump coefficients (ii): Main results. *SIAM Journal on Numerical Analysis*, 61(5): 2434–2459, October 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Huybrechs:2022:CGQ

[Huy22] Daan Huybrechs. On the computation of Gaussian quadrature rules for Chebyshev sets of linearly independent functions. *SIAM Journal on Numerical Analysis*, 60(3):1168–1192, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1456935`.

Hoff:2021:MMP

[HW21] Daniel Hoff and Holger Wendland. A meshfree method for a PDE-Constrained optimization problem. *SIAM Journal on Numerical Analysis*, 59(4):1896–1917, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Han:2022:MDI

[HW22] Rubing Han and Shuonan Wu. A monotone discretization for integral fractional Laplacian on bounded Lipschitz domains: Pointwise error estimates under Hölder regularity. *SIAM Journal on Numerical Analysis*, 60(6):3052–3077, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1448239`.

Hong:2020:ALE

[HX20] Xue Hong and Yinhua Xia. Arbitrary Lagrangian–Eulerian discontinuous Galerkin method for hyperbolic equations involving δ-singularities. *SIAM Journal on Numerical Analysis*, 58(1):125–152, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hensel:2022:NAM

[HY22] Maurice Hensel and Irwin Yousept. Numerical analysis for Maxwell obstacle problems in electric shielding. *SIAM Journal on Numerical Analysis*, 60(3):1083–1110, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1427693`.

Hao:2020:ORE

[HZ20] Zhaopeng Hao and Zhongqiang Zhang. Optimal regularity and error estimates of a spectral Galerkin method for fractional advection–diffusion–reaction equations. *SIAM Journal on Numerical Analysis*, 58(1):211–233, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

He:2023:ERI

[HZW23] Zhijian He, Zhan Zheng, and Xiaoqun Wang. On the error rate of importance sampling with randomized quasi-Monte Carlo. *SIAM Journal on Numerical Analysis*, 61(2):515–538, ???? 2023. CODEN SJNAAM. ISSN

0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1510121`.

Hu:2022:FFE

[HZZ22] Kaibo Hu, Qian Zhang, and Zhimin Zhang. A family of finite element Stokes complexes in three dimensions. *SIAM Journal on Numerical Analysis*, 60(1):222–243, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1358700`.

Imbert-Gerard:2021:ABG

[IG21] Lise-Marie Imbert-Gerard. Amplitude-based generalized plane waves: New quasi-Trefftz functions for scalar equations in two dimensions. *SIAM Journal on Numerical Analysis*, 59(3):1663–1686, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Izgin:2022:SUP

[IKM22] Thomas Izgin, Stefan Kopecz, and Andreas Meister. On the stability of unconditionally positive and linear invariants preserving time integration schemes. *SIAM Journal on Numerical Analysis*, 60(6):3029–3051, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1480318`.

Joly:2022:LTB

[JK22] Patrick Joly and Maryna Kachanovska. Local transparent boundary conditions for wave propagation in fractal trees (II). Error and complexity analysis. *SIAM Journal on Numerical Analysis*, 60(2):529–557, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1357524`.

Jessberger:2024:FED

[JK24] Julius Jeßberger and Alex Kaltenbach. Finite element discretization of the steady, generalized Navier–Stokes equations with inhomogeneous Dirichlet boundary conditions. *SIAM Journal on Numerical Analysis*, 62 (4):1660–1686, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1607398`.

Jayadharan:2023:STM

[JKVY23] Manu Jayadharan, Michel Kern, Martin Vohralík, and Ivan Yotov. A space-time multiscale mortar mixed finite element method for parabolic equations. *SIAM Journal on Numerical Analysis*, 61 (2):675–706, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https:`

//epubs.siam.org/doi/10.1137/21M1447945.

Jin:2021:CRB

[JLL21] Shi Jin, Lei Li, and Jian-Guo Liu. Convergence of the random batch method for interacting particles with disparate species and weights. *SIAM Journal on Numerical Analysis*, 59(2):746–768, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Jia:2022:SVG

[JLM22] Junxiong Jia, Peijun Li, and Deyu Meng. Stein variational gradient descent on infinite-dimensional space and applications to statistical inverse problems. *SIAM Journal on Numerical Analysis*, 60(4):2225–2252, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1440773.

Jiang:2025:IWF

[JLM+25a] Kai Jiang, Xueyang Li, Yao Ma, Juan Zhang, Pingwen Zhang, and Qi Zhou. Irrational-window-filter projection method and application to quasiperiodic Schrödinger eigenproblems. *SIAM Journal on Numerical Analysis*, 63(2):564–587, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/24M1666197.

Jin:2025:SBQ

[JLM25b] Shi Jin, Nana Liu, and Chuwen Ma. On Schrödingerization-based quantum algorithms for linear dynamical systems with inhomogeneous terms. *SIAM Journal on Numerical Analysis*, 63(4):1861–1885, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/24M164272X.

Ju:2022:GSE

[JLQ22] Lili Ju, Xiao Li, and Zhonghua Qiao. Generalized SAV-exponential integrator schemes for Allen–Cahn type gradient flows. *SIAM Journal on Numerical Analysis*, 60(4):1905–1931, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1446496.

Jiang:2022:FEM

[JLWZ22] Run Jiang, Yonglin Li, Haijun Wu, and Jun Zou. Finite element method for a nonlinear perfectly matched layer Helmholtz equation with high wave number. *SIAM Journal on Numerical Analysis*, 60(5):2866–2896, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https:

//epubs.siam.org/doi/10.1137/21M1459381.

Jiang:2021:ACC

[JLY21] Nan Jiang, Ying Li, and Huanhuan Yang. An artificial compressibility Crank–Nicolson leap-frog method for the Stokes–Darcy model and application in ensemble simulations. *SIAM Journal on Numerical Analysis*, 59(1):401–428, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Jiang:2024:NMA

[JLZ24] Kai Jiang, Shifeng Li, and Pingwen Zhang. Numerical methods and analysis of computing quasiperiodic systems. *SIAM Journal on Numerical Analysis*, 62(1):353–375, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ji:2024:LRF

[JORS24] Lun Ji, Alexander Ostermann, Frédéric Rousset, and Katharina Schratz. Low regularity full error estimates for the cubic nonlinear Schrödinger equation. *SIAM Journal on Numerical Analysis*, 62(5):2071–2086, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/23M1619617.

Jin:2025:RAH

[JQWZ25] Bangti Jin, Qimeng Quan, Barbara Wohlmuth, and Zhi Zhou. Regularity analysis and high-order time stepping scheme for quasilinear subdiffusion. *SIAM Journal on Numerical Analysis*, 63(4):1512–1539, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/23M159531X.

Jiang:2023:CPP

[JSZ23] Wei Jiang, Chunmei Su, and Ganghui Zhang. A convexity-preserving and perimeter-decreasing parametric finite element method for the area-preserving curve shortening flow. *SIAM Journal on Numerical Analysis*, 61(4):1989–2010, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/22M1514404.

Jin:2021:EAF

[JZ21a] Bangti Jin and Zhi Zhou. Error analysis of finite element approximations of diffusion coefficient identification for elliptic and parabolic problems. *SIAM Journal on Numerical Analysis*, 59(1):119–142, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Jungel:2021:CSP

[JZ21b] Ansgar Jüngel and Antoine Zurek. A convergent structure-preserving finite-volume scheme for the Shigesada–Kawasaki–Teramoto population system. *SIAM Journal on Numerical Analysis*, 59(4): 2286–2309, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Jiang:2024:ARG

[JZZ24] Kai Jiang, Qi Zhou, and Pingwen Zhang. Accurately recover global quasiperiodic systems by finite points. *SIAM Journal on Numerical Analysis*, 62(4):1713–1735, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1620247`.

Kamenski:2021:SBS

[Kam21] Lennard Kamenski. Sharp bounds on the smallest eigenvalue of finite element equations with arbitrary meshes without regularity assumptions. *SIAM Journal on Numerical Analysis*, 59(2):983–997, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Karaa:2021:PDT

[Kar21] Samir Karaa. Positivity of discrete time-fractional operators with applications to phase-field equations. *SIAM Journal on Numerical Analysis*, 59(4): 2040–2053, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Keller:2021:DDU

[KD21] Rachael T. Keller and Qiang Du. Discovery of dynamics using linear multistep methods. *SIAM Journal on Numerical Analysis*, 59(1):429–455, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kropielnicka:2025:SOE

[KD25] K. Kropielnicka and J. C. Del Valle. Second order exponential splittings in the presence of unbounded and time-dependent operators: Construction and convergence. *SIAM Journal on Numerical Analysis*, 63(1):288–305, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1607660`.

Kolbe:2024:NSC

[KHM24] Niklas Kolbe, Michael Herty, and Siegfried Müller. Numerical schemes for coupled systems of nonconservative hyperbolic equations. *SIAM Journal on Numerical Analysis*, 62(5):2143–2171, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https:`

//epubs.siam.org/doi/10.1137/23M1615176.

Kim:2025:ACR

[Kim25] Seungil Kim. Analysis of complete radiation boundary conditions for Maxwell's equations. *SIAM Journal on Numerical Analysis*, 63 (3):1183–1208, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/24M1663417.

Khan:2020:RPE

[KK20] Arbaz Khan and Guido Kanschat. A robust a posteriori error estimator for divergence-conforming discontinuous Galerkin methods for the Oseen equation. *SIAM Journal on Numerical Analysis*, 58(1):492–518, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kashiwabara:2024:DMR

[KK24] Takahito Kashiwabara and Tomoya Kemmochi. Discrete maximal regularity for the discontinuous Galerkin time-stepping method without logarithmic factor. *SIAM Journal on Numerical Analysis*, 62 (4):1638–1659, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/23M1580802.

Kaarnioja:2020:UQU

[KKS20] V. Kaarnioja, F. Y. Kuo, and I. H. Sloan. Uncertainty quantification using periodic random variables. *SIAM Journal on Numerical Analysis*, 58(2): 1068–1091, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kuchta:2021:AAM

[KLMZ21] Miroslav Kuchta, Federica Laurino, Kent-Andre Mardal, and Paolo Zunino. Analysis and approximation of mixed-dimensional PDEs on 3D–1D domains coupled with Lagrange multipliers. *SIAM Journal on Numerical Analysis*, 59(1):558–582, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kovacs:2020:MLE

[KLS20] Mihály Kovács, Stig Larsson, and Fardin Saedpanah. Mittag-Leffler Euler integrator for a stochastic fractional order equation with additive noise. *SIAM Journal on Numerical Analysis*, 58(1):66–85, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kopteva:2020:EAF

[KM20a] Natalia Kopteva and Xiangyun Meng. Error analysis for a fractional-derivative parabolic problem on quasi-graded meshes using barrier

functions. *SIAM Journal on Numerical Analysis*, 58(2): 1217–1238, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kyza:2020:PPE

[KM20b] Irene Kyza and Stephen Metcalfe. Pointwise a posteriori error bounds for blow-up in the semilinear heat equation. *SIAM Journal on Numerical Analysis*, 58(5):2609–2631, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kazakova:2020:DTB

[KN20] Maria Kazakova and Pascal Noble. Discrete transparent boundary conditions for the linearized Green–Naghdi system of equations. *SIAM Journal on Numerical Analysis*, 58 (1):657–683, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kazashi:2023:DER

[KN23] Yoshihito Kazashi and Fabio Nobile. Density estimation in RKHS with application to Korobov spaces in high dimensions. *SIAM Journal on Numerical Analysis*, 61 (2):1080–1102, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M147476X`.

Kao:2023:HFF

[KOO23] Chiu-Yen Kao, Braxton Osting, and Édouard Oudet. Harmonic functions on finitely connected tori. *SIAM Journal on Numerical Analysis*, 61(6): 2795–2812, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kopteva:2020:EAT

[Kop20] Natalia Kopteva. Error analysis for time-fractional semilinear parabolic equations using upper and lower solutions. *SIAM Journal on Numerical Analysis*, 58(4):2212–2234, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kindermann:2020:CHP

[KR20] Stefan Kindermann and Kemal Raik. Convergence of heuristic parameter choice rules for convex Tikhonov regularization. *SIAM Journal on Numerical Analysis*, 58(3): 1773–1800, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kaltenbach:2023:LDGa

[KR23a] Alex Kaltenbach and Michael Ruzicka. A local discontinuous Galerkin approximation for the p-Navier–Stokes system, Part I: Convergence analysis. *SIAM Journal on Numerical Analysis*, 61(4):1613–1640,

???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M151474X`.

Kaltenbach:2023:LDGb

[KR23b] Alex Kaltenbach and Michael Ruzicka. A local discontinuous Galerkin approximation for the p-Navier–Stokes system, Part II: Convergence rates for the velocity. *SIAM Journal on Numerical Analysis*, 61(4):1641–1663, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1514751`.

Kaltenbach:2023:LDGc

[KR23c] Alex Kaltenbach and Michael Ruzicka. A local discontinuous Galerkin approximation for the p-Navier–Stokes system, Part III: Convergence rates for the pressure. *SIAM Journal on Numerical Analysis*, 61(4):1763–1782, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1541472`.

Kopteva:2023:PPE

[KR23d] Natalia Kopteva and Richard Rankin. Pointwise a posteriori error estimates for discontinuous Galerkin methods for singularly perturbed reaction–diffusion equations. *SIAM Journal on Numerical Analysis*, 61(4):1938–1961, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M149733X`.

Koc:2021:OPT

[KRS+21] Birgul Koc, Samuele Rubino, Michael Schneier, John Singler, and Traian Iliescu. On optimal pointwise in time error bounds and difference quotients for the proper orthogonal decomposition. *SIAM Journal on Numerical Analysis*, 59(4):2163–2196, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kean:2020:EAS

[KS20] Kiera Kean and Michael Schneier. Error analysis of supremizer pressure recovery for POD based reduced-order models of the time-dependent Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 58(4):2235–2264, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kazashi:2023:SGH

[KSG23] Yoshihito Kazashi, Yuya Suzuki, and Takashi Goda. Suboptimality of Gauss–Hermite quadrature and optimality of the trapezoidal rule for functions with finite smoothness.

SIAM Journal on Numerical Analysis, 61(3):1426–1448, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1480276`.

Khieu:2022:SRB

[KV22] Tran Thi Khieu and Hoang-Hung Vo. Stability results for backward nonlinear diffusion equations with temporal coupling operator of local and nonlocal type. *SIAM Journal on Numerical Analysis*, 60(4):1665–1700, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1421763`.

Kaliuzhnyi-Verbovetskyi:2022:SMC

[KVM22] Dmitry Kaliuzhnyi-Verbovetskyi and Georgi S. Medvedev. Sparse Monte Carlo method for nonlocal diffusion problems. *SIAM Journal on Numerical Analysis*, 60(6):3001–3028, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/19M1308657`.

Komori:2023:FMM

[KYB23] Yoshio Komori, Guoguo Yang, and Kevin Burrage. Formulae for mixed moments of Wiener processes and a stochastic area integral. *SIAM Journal on Numerical Analysis*, 61(4):1716–1736, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M152013X`.

Labovsky:2020:ADC

[Lab20] Alexander E. Labovsky. Approximate deconvolution with correction: a member of a new class of models for high Reynolds number flows. *SIAM Journal on Numerical Analysis*, 58(5):3068–3090, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2022:ASE

[LAZ22] Hao Li, Daniel Appelö, and Xiangxiong Zhang. Accuracy of spectral element method for wave, parabolic, and Schrödinger equations. *SIAM Journal on Numerical Analysis*, 60(1):339–363, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1401760`.

Le:2024:OPC

[LC24a] Van Chien Le and Kristof Cools. An operator preconditioned combined field integral equation for electromagnetic scattering. *SIAM Journal on Numerical Analysis*, 62(6):2484–2505, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170

(electronic). URL https://epubs.siam.org/doi/10.1137/23M1581674.

Li:2024:SDA

[LC24b] Chao Li and Xiaojun Chen. Spherical designs for approximations on spherical caps. *SIAM Journal on Numerical Analysis*, 62(6):2506–2528, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/23M1555417.

Lin:2024:KIH

[LCS24] Shao-Bo Lin, Xiangyu Chang, and Xingping Sun. Kernel interpolation of high dimensional scattered data. *SIAM Journal on Numerical Analysis*, 62(3):1098–1118, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Du:2022:TSO

[lDzSW22] Rui lian Du, Zhi zhong Sun, and Hong Wang. Temporal second-order finite difference schemes for variable-order time-fractional wave equations. *SIAM Journal on Numerical Analysis*, 60 (1):104–132, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/19M1301230.

Lederer:2021:HHJ

[Led21] Philip L. Lederer. A Hellan–Herrmann–Johnson-like method for the stream function formulation of the Stokes equations in two and three space dimensions. *SIAM Journal on Numerical Analysis*, 59(1):503–524, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

LeRoux:2020:FAH

[LET20] Daniel Y. Le Roux, Christopher Eldred, and Mark A. Taylor. Fourier analyses of high-order continuous and discontinuous Galerkin methods. *SIAM Journal on Numerical Analysis*, 58(3):1845–1866, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Lopez-Fernandez:2025:CQQ

[LFP25] Maria López-Fernández and Lukasz Płociniczak. Convolution quadrature for the quasi-linear subdiffusion equation. *SIAM Journal on Numerical Analysis*, 63(4):1482–1511, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/23M161450X.

Li:2020:CDL

[Li20] Buyang Li. Convergence of Dziuk's linearly implicit parametric finite element method for

curve shortening flow. *SIAM Journal on Numerical Analysis*, 58(4):2315–2333, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2021:CDS

[Li21] Buyang Li. Convergence of Dziuk's semidiscrete finite element method for mean curvature flow of closed surfaces with high-order finite elements. *SIAM Journal on Numerical Analysis*, 59(3):1592–1617, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2025:NAE

[Li25] Yuwen Li. A new analysis of empirical interpolation methods and Chebyshev greedy algorithms. *SIAM Journal on Numerical Analysis*, 63(2):931–948, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1634230`.

Liu:2021:CMF

[LJL+21] Siting Liu, Matthew Jacobs, Wuchen Li, Levon Nurbekyan, and Stanley J. Osher. Computational methods for first-order nonlocal mean field games with applications. *SIAM Journal on Numerical Analysis*, 59(5):2639–2668, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Lai:2022:MSB

[LL22a] Ming-Jun Lai and Jinsil Lee. A multivariate spline based collocation method for numerical solution of partial differential equations. *SIAM Journal on Numerical Analysis*, 60(5):2405–2434, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1469602`.

Lou:2022:IUB

[LL22b] Yimin Lou and Christoph Lehrenfeld. Isoparametric unfitted BDF–Finite element method for PDEs on evolving domains. *SIAM Journal on Numerical Analysis*, 60(4):2069–2098, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M142126X`.

Li:2024:MRE

[LL24] Dongfang Li and Xiaoxi Li. Multiple relaxation exponential Runge–Kutta methods for the nonlinear Schrödinger equation. *SIAM Journal on Numerical Analysis*, 62(6):2719–2744, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1606034`.

Li:2022:SVS

[LlL22] Zhaoyi Li and Hong lin Liao. Stability of variable-step BDF2 and BDF3 methods. *SIAM Journal on Numerical Analysis*, 60(4):2253–2272, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1462398`.

Liao:2023:DGS

[lLLL23] Hong lin Liao, Nan Liu, and Pin Lyu. Discrete gradient structure of a second-order variable-step method for nonlinear integro-differential models. *SIAM Journal on Numerical Analysis*, 61(5):2157–2181, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1520050`.

Li:2023:ESM

[LLMR23] Buyang Li, Yanping Lin, Shu Ma, and Qiqi Rao. An exponential spectral method using VP means for semilinear subdiffusion equations with rough data. *SIAM Journal on Numerical Analysis*, 61(5):2305–2326, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1512041`.

Lu:2021:OFD

[LLS21] Jianfang Lu, Yong Liu, and Chi-Wang Shu. An oscillation-free discontinuous Galerkin method for scalar hyperbolic conservation laws. *SIAM Journal on Numerical Analysis*, 59 (3):1299–1324, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Liao:2020:ESM

[lLTZ20] Hong lin Liao, Tao Tang, and Tao Zhou. On energy stable, maximum-principle preserving, second-order BDF scheme with variable steps for the Allen–Cahn equation. *SIAM Journal on Numerical Analysis*, 58(4):2294–2314, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Liu:2022:NPF

[LLZZ22] Shu Liu, Wuchen Li, Hongyuan Zha, and Haomin Zhou. Neural parametric Fokker–Planck equation. *SIAM Journal on Numerical Analysis*, 60 (3):1385–1449, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1344986`.

Li:2022:ECQ

[LM22a] Buyang Li and Shu Ma. Exponential convolution quadrature for nonlinear subdiffusion equations with nonsmooth initial data. *SIAM Journal on Numerical Analysis*,

60(2):503–528, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1421386`.

Li:2022:NMI

[LM22b] Shukai Li and Sanjay Mehrotra. Numerical methods for integral equations of the second kind with NonSmooth solutions of bounded variation. *SIAM Journal on Numerical Analysis*, 60(5):2751–2780, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1480422`.

Laaziri:2025:VNF

[LM25a] Mohamed Laaziri and Roland Masson. VEM-Nitsche fully discrete polytopal scheme for frictionless contact-mechanics. *SIAM Journal on Numerical Analysis*, 63(1):81–102, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1660218`.

Li:2025:CMB

[LM25b] Danlin Li and Johannes Milz. Criticality measure-based error estimates for infinite dimensional optimization. *SIAM Journal on Numerical Analysis*, 63(1):193–213, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1647023`.

Lundquist:2023:MLF

[LMN23] Tomas Lundquist, Arnaud G. Malan, and Jan Nordström. A method-of-lines framework for energy stable arbitrary Lagrangian–Eulerian methods. *SIAM Journal on Numerical Analysis*, 61(5):2327–2351, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1514945`.

Liu:2025:CAS

[LMQZ25] Xuanyu Liu, Yvon Maday, Chaoyu Quan, and Hui Zhang. Convergence analysis of a solver for the linear Poisson–Boltzmann model. *SIAM Journal on Numerical Analysis*, 63(3):1232–1253, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1717087`.

Liu:2023:CDS

[LMR23] Chen Liu, Rami Masri, and Beatrice Riviere. Convergence of a decoupled splitting scheme for the Cahn–Hilliard–Navier–Stokes system. *SIAM Journal on Numerical Analysis*, 61(6):2651–2694, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2022:SIE

[LMS22] Buyang Li, Shu Ma, and Katharina Schratz. A semi-implicit exponential low-regularity integrator for the Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 60(4):2273–2292, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1437007`.

Leclerc:2020:LDC

[LMSS20] Hugo Leclerc, Quentin Mérigot, Filippo Santambrogio, and Federico Stra. Lagrangian discretization of crowd motion and linear diffusion. *SIAM Journal on Numerical Analysis*, 58(4):2093–2118, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Lukacova-Medvidova:2025:CAM

[LMSY25] Mária Lukácová-Medvidová, Bangwei She, and Yuhuan Yuan. Convergence analysis of the Monte Carlo method for the random Navier–Stokes–Fourier system. *SIAM Journal on Numerical Analysis*, 63(3):1254–1280, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1563232`.

Liu:2023:PAS

[LO23] Sifan Liu and Art B. Owen. Preintegration via active subspace. *SIAM Journal on Numerical Analysis*, 61(2):495–514, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1479129`.

Lord:2025:PLI

[LP25] Gabriel J. Lord and Andreas Petersson. Piecewise linear interpolation of noise in finite element approximations of parabolic SPDEs. *SIAM Journal on Numerical Analysis*, 63(2):542–563, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1574117`.

Leimkuhler:2024:CCR

[LPW24] Benedict J. Leimkuhler, Daniel Paulin, and Peter A. Whalley. Contraction and convergence rates for discretized kinetic Langevin dynamics. *SIAM Journal on Numerical Analysis*, 62(3):1226–1258, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Lederer:2020:PRE

[LR20] Philip L. Lederer and Sander Rhebergen. A pressure-robust embedded discontinuous Galerkin method for the Stokes problem by reconstruction operators. *SIAM Journal*

on Numerical Analysis, 58(5): 2915–2933, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Lu:2022:AIO

[LRK22] Peipei Lu, Andreas Rupp, and Guido Kanschat. Analysis of injection operators in geometric multigrid solvers for HDG methods. *SIAM Journal on Numerical Analysis*, 60(4):2293–2317, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1400110`.

Liu:2025:DEK

[LRT25] Shuigen Liu, Sebastian Reich, and Xin T. Tong. Dropout ensemble Kalman inversion for high dimensional inverse problems. *SIAM Journal on Numerical Analysis*, 63 (2):685–715, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M159860X`.

Li:2020:EAS

[LS20a] Xiaoli Li and Jie Shen. Error analysis of the SAV–MAC scheme for the Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 58(5): 2465–2491, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Locke:2020:NPO

[LS20b] Sarah Locke and John Singler. New proper orthogonal decomposition approximation theory for PDE solution data. *SIAM Journal on Numerical Analysis*, 58(6):3251–3285, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2022:CNS

[LS22] Yang Li and Bangwei She. On convergence of numerical solutions for the compressible MHD system with exactly divergence-free magnetic field. *SIAM Journal on Numerical Analysis*, 60(4):2182–2202, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1431011`.

Loscher:2024:STF

[LS24] Richard Löscher and Olaf Steinbach. Space-time finite element methods for distributed optimal control of the wave equation. *SIAM Journal on Numerical Analysis*, 62(1): 452–475, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Langer:2021:STF

[LSTY21] Ulrich Langer, Olaf Steinbach, Fredi Tröltzsch, and Huidong Yang. Space-time finite element discretization

of parabolic optimal control problems with energy regularization. *SIAM Journal on Numerical Analysis*, 59(2):675–695, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2024:OEA

[LSXY24] Buyang Li, Weiwei Sun, Yupei Xie, and Wenshan Yu. Optimal L^2 error analysis of a loosely coupled finite element scheme for thin-structure interactions. *SIAM Journal on Numerical Analysis*, 62 (4):1782–1813, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1578401`.

Li:2025:DRP

[LT25] Buyang Li and Rong Tang. Dynamic Ritz projection of mean curvature flow and optimal L^2 convergence of parametric FEM. *SIAM Journal on Numerical Analysis*, 63(4):1454–1481, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1689053`.

Leng:2021:ACR

[LTTF21] Yu Leng, Xiaochuan Tian, Nathaniel Trask, and John T. Foster. Asymptotically compatible reproducing kernel collocation and meshfree integration for nonlocal diffusion. *SIAM Journal on Numerical Analysis*, 59(1):88–118, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2020:SOS

[LUZ20] Buyang Li, Yuki Ueda, and Guanyu Zhou. A second-order stabilization method for linearizing and decoupling nonlinear parabolic systems. *SIAM Journal on Numerical Analysis*, 58(5):2736–2763, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2023:SHO

[LWC23] Shishun Li, Jing-Yuan Wang, and Xiao-Chuan Cai. A-stable high-order block implicit methods for parabolic equations. *SIAM Journal on Numerical Analysis*, 61 (4):1858–1884, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M152880X`.

Li:2022:SEA

[LWS22] Xiaoli Li, Weilong Wang, and Jie Shen. Stability and error analysis of IMEX SAV schemes for the magneto-hydrodynamic equations. *SIAM Journal on Numerical Analysis*, 60(3): 1026–1054, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170

(electronic). URL https://epubs.siam.org/doi/10.1137/21M1430376.

Liu:2022:CAV

[LWWW22] Chun Liu, Cheng Wang, Yiwei Wang, and Steven M. Wise. Convergence analysis of the variational operator splitting scheme for a reaction–diffusion system with detailed balance. *SIAM Journal on Numerical Analysis*, 60(2):781–803, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1421283.

Li:2020:CLL

[LWX20] Buyang Li, Jilu Wang, and Liwei Xu. A convergent linearized Lagrange finite element method for the magneto-hydrodynamic equations in two-dimensional nonsmooth and nonconvex domains. *SIAM Journal on Numerical Analysis*, 58(1):430–459, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Liang:2024:TLB

[LWX24] Qigang Liang, Wei Wang, and Xuejun Xu. A two-level block preconditioned Jacobi–Davidson method for multiple and clustered eigenvalues of elliptic operators. *SIAM Journal on Numerical Analysis*, 62 (2):998–1019, April 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Lyu:2020:CAS

[LWXZ20] Junlong Lyu, Zhongjian Wang, Jack Xin, and Zhiwen Zhang. Convergence analysis of stochastic structure-preserving schemes for computing effective diffusivity in random flows. *SIAM Journal on Numerical Analysis*, 58(5):3040–3067, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Lyu:2022:CIP

[LWXZ22] Junlong Lyu, Zhongjian Wang, Jack Xin, and Zhiwen Zhang. A convergent interacting particle method and computation of KPP front speeds in chaotic flows. *SIAM Journal on Numerical Analysis*, 60(3):1136–1167, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1410786.

Li:2023:MCG

[LWY23] Qin Li, Li Wang, and Yunan Yang. Monte Carlo gradient in optimization constrained by radiative transport equation. *SIAM Journal on Numerical Analysis*, 61(6):2744–2774, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2020:LTA

[LWZ20] Buyang Li, Kai Wang, and Zhi Zhou. Long-time accurate symmetrized implicit-explicit BDF methods for a class of parabolic equations with non-self-adjoint operators. *SIAM Journal on Numerical Analysis*, 58(1):189–210, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2023:GTE

[LWZ23] Bing Li, Yifei Wu, and Xiaofei Zhao. Gauge-transformed exponential integrator for generalized KdV equations with rough data. *SIAM Journal on Numerical Analysis*, 61(4):1689–1715, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1530501`.

Liang:2023:TLP

[LX23] Qigang Liang and Xuejun Xu. A two-level preconditioned Helmholtz subspace iterative method for Maxwell eigenvalue problems. *SIAM Journal on Numerical Analysis*, 61(2):642–674, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1392012`.

Li:2020:SLS

[LY20] Ruo Li and Fanyi Yang. A sequential least squares method for Poisson equation using a patch reconstructed space. *SIAM Journal on Numerical Analysis*, 58(1):353–374, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2023:OCN

[LYC23] Yangrong Li, Shuang Yang, and Tomás Caraballo. Optimization and convergence of numerical attractors for discrete-time quasi-linear lattice system. *SIAM Journal on Numerical Analysis*, 61(2):905–928, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1461642`.

Liu:2024:FEM

[LYL24] Fuhao Liu, Wei Yang, and Jichun Li. A finite element method for hyperbolic metamaterials with applications for hyperlens. *SIAM Journal on Numerical Analysis*, 62(3):1420–1442, June 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1591207`.

Li:2023:AAT

[LZ23] Jichun Li and Li Zhu. Analysis and application of two novel finite element methods for solving Ziolkowski's PML model

in the integro-differential form. *SIAM Journal on Numerical Analysis*, 61(5):2209–2236, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1506936`.

Luo:2022:CAD

[LZCZ22] Yue Luo, Xiangcheng Zheng, Xiangle Cheng, and Lei Zhang. Convergence analysis of discrete high-index saddle dynamics. *SIAM Journal on Numerical Analysis*, 60 (5):2731–2750, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1487965`.

Li:2020:DGM

[LZM+20] Jia Li, Dazhi Zhang, Xiong Meng, Boying Wu, and Qiang Zhang. Discontinuous Galerkin methods for nonlinear scalar conservation laws: Generalized local Lax–Friedrichs numerical fluxes. *SIAM Journal on Numerical Analysis*, 58(1):1–20, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2025:RKB

[LZZ25a] Yuwen Li, Ludmil T. Zikatanov, and Cheng Zuo. Reduced Krylov basis methods for parametric partial differential equations. *SIAM Journal on Numerical Analysis*, 63(2):976–999, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1661236`.

Lu:2025:PML

[LZZ25b] Wangtao Lu, Weiying Zheng, and Xiaopeng Zhu. Perfectly matched layer method for the wave scattering problem by a step-like surface. *SIAM Journal on Numerical Analysis*, 63(2):744–771, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1654221`.

Maier:2021:HOA

[Mai21] Roland Maier. A high-order approach to elliptic multiscale problems with general unstructured coefficients. *SIAM Journal on Numerical Analysis*, 59 (2):1067–1089, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Mlinaric:2025:IHO

[MBG25] Petar Mlinarić, Peter Benner, and Serkan Gugercin. Interpolatory H2-optimality conditions for structured linear time-invariant systems. *SIAM Journal on Numerical Analysis*, 63(2):949–975, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https:`

//epubs.siam.org/doi/10.1137/23M1610033.

Ma:2020:ECG

[MCL20] Chupeng Ma, Liqun Cao, and Yanping Lin. Energy conserving Galerkin finite element methods for the Maxwell–Klein–Gordon system. *SIAM Journal on Numerical Analysis*, 58(2):1339–1366, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Metzger:2021:ECF

[Met21] Stefan Metzger. An efficient and convergent finite element scheme for Cahn–Hilliard equations with dynamic boundary conditions. *SIAM Journal on Numerical Analysis*, 59(1):219–248, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Mlinaric:2023:UFI

[MG23] Petar Mlinarić and Serkan Gugercin. A unifying framework for interpolatory L2-optimal reduced-order modeling. *SIAM Journal on Numerical Analysis*, 61(5):2133–2156, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/22M1516920.

Manns:2020:MSR

[MK20] Paul Manns and Christian Kirches. MultiDimensional sum-up rounding for elliptic control systems. *SIAM Journal on Numerical Analysis*, 58(6):3427–3447, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). See erratum [MK24].

Manns:2024:EMS

[MK24] Paul Manns and Christian Kirches. Erratum: Multidimensional sum-up rounding for elliptic control systems. *SIAM Journal on Numerical Analysis*, 62(6):2782–2783, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/24M1674169. See [MK20].

Masri:2024:DGM

[MKR24] Rami Masri, Miroslav Kuchta, and Beatrice Riviere. Discontinuous Galerkin methods for 3D–1D systems. *SIAM Journal on Numerical Analysis*, 62(4):1814–1843, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/23M1627390.

Munoz-Matute:2024:MDP

[MMD24] Judit Muñoz-Matute and Leszek Demkowicz. Multistage discontinuous Petrov–Galerkin time-marching scheme for nonlinear problems. *SIAM Journal on Numerical Analysis*, 62(4):1956–1978, August 2024. CODEN SJNAAM. ISSN

0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1598088`.

Medeiros:2021:SOF

[MNO21] Debora D. Medeiros, Hirofumi Notsu, and Cassio M. Oishi. Second-order finite difference approximations of the upper-convected time derivative. *SIAM Journal on Numerical Analysis*, 59(6):2955–2988, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Mohamad:2021:NIF

[MO21] Haidar Mohamad and Marcel Oliver. Numerical integration of functions of a rapidly rotating phase. *SIAM Journal on Numerical Analysis*, 59(4):2310–2319, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Mamonov:2025:PAT

[MO25] Alexander V. Mamonov and Maxim A. Olshanskii. A priori analysis of a tensor ROM for parameter dependent parabolic problems. *SIAM Journal on Numerical Analysis*, 63(1):239–261, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1616844`.

Monk:2025:TDG

[MPS25] Peter Monk, Manuel Pena, and Virginia Selgas. Trefftz discontinuous Galerkin approximation of an acoustic waveguide. *SIAM Journal on Numerical Analysis*, 63(4):1561–1585, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1686905`.

Miraci:2020:MAE

[MPV20] Ani Miraçi, Jan Papez, and Martin Vohralík. A multilevel algebraic error estimator and the corresponding iterative solver with p-robust behavior. *SIAM Journal on Numerical Analysis*, 58(5):2856–2884, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ma:2023:ESM

[MQ23] Limin Ma and Zhonghua Qiao. An energy stable and maximum bound principle preserving scheme for the dynamic Ginzburg–Landau equations under the temporal gauge. *SIAM Journal on Numerical Analysis*, 61(6):2695–2717, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Mishra:2021:EAD

[MR21] Siddhartha Mishra and T. Konstantin Rusch. Enhancing accuracy of deep learning algo-

rithms by training with low-discrepancy sequences. *SIAM Journal on Numerical Analysis*, 59(3):1811–1834, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Muga:2023:ASM

[MRV23] Ignacio Muga, Sergio Rojas, and Patrick Vega. An adaptive superconvergent mixed finite element method based on local residual minimization. *SIAM Journal on Numerical Analysis*, 61(5):2084–2105, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1526307`.

Meyer:2020:PEA

[MS20] Christian Meyer and Michael Sievers. A priori error analysis of local incremental minimization schemes for rate-independent evolutions. *SIAM Journal on Numerical Analysis*, 58(4):2376–2403, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Madureira:2021:HLS

[MS21] Alexandre L. Madureira and Marcus Sarkis. Hybrid localized spectral decomposition for multiscale problems. *SIAM Journal on Numerical Analysis*, 59(2):829–863, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Marcati:2023:ECD

[MS23] Carlo Marcati and Christoph Schwab. Exponential convergence of deep operator networks for elliptic partial differential equations. *SIAM Journal on Numerical Analysis*, 61(3):1513–1545, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1465718`.

Madureira:2025:SAR

[MS25a] Alexandre L. Madureira and Marcus Sarkis. Spectral ACMS: A robust localized approximated component mode synthesis method. *SIAM Journal on Numerical Analysis*, 63(3):1055–1077, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1665362`.

Monsuur:2025:UWL

[MS25b] Harald Monsuur and Rob Stevenson. Ultra-weak least squares discretizations for unique continuation and Cauchy problems. *SIAM Journal on Numerical Analysis*, 63(3):1344–1368, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1674844`.

Ma:2022:NDA

[MSD22] Chupeng Ma, Robert Scheichl, and Tim Dodwell. Novel design and analysis of generalized finite element methods based on locally optimal spectral approximations. *SIAM Journal on Numerical Analysis*, 60(1):244–273, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1406179`.

Muller:2020:OOF

[MSS20] Stefan Müller, Florian Schweiger, and Endre Süli. Optimal-order finite difference approximation of generalized solutions to the biharmonic equation in a cube. *SIAM Journal on Numerical Analysis*, 58 (1):298–329, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Melenk:2020:WEA

[MST20] Jens M. Melenk, Stefan A. Sauter, and Céline Torres. Wavenumber explicit analysis for Galerkin discretizations of lossy Helmholtz problems. *SIAM Journal on Numerical Analysis*, 58(4):2119–2143, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Mardal:2022:RPE

[MST22] Kent-Andre Mardal, Jarle Sogn, and Stefan Takacs. Robust preconditioning and error estimates for optimal control of the convection–diffusion–reaction equation with limited observation in isogeometric analysis. *SIAM Journal on Numerical Analysis*, 60(1):195–221, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M139147X`.

Maire:2020:WCS

[MT20] P.-H. Maire and N. Therme. Weak consistency of a staggered finite volume scheme for Lagrangian hydrodynamics. *SIAM Journal on Numerical Analysis*, 58(3):1592–1612, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Mu:2020:URW

[Mu20] Lin Mu. A uniformly robust $H(\mathrm{DIV})$ weak Galerkin finite element methods for Brinkman problems. *SIAM Journal on Numerical Analysis*, 58(3): 1422–1439, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Manns:2022:SNM

[MU22] Paul Manns and Stefan Ulbrich. A simplified Newton method to generate snapshots for POD models of semilinear optimal control problems. *SIAM Journal on Numeri-*

cal Analysis, 60(5):2807–2833, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1439821`.

Mustapha:2020:AFR

[Mus20] Kassem Mustapha. An L_1 approximation for a fractional reaction–diffusion equation, a second-order error analysis over time-graded meshes. *SIAM Journal on Numerical Analysis*, 58(2):1319–1338, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Muga:2020:DLP

[MvdZ20] Ignacio Muga and Kristoffer G. van der Zee. Discretization of linear problems in Banach spaces: Residual minimization, nonlinear Petrov–Galerkin, and monotone mixed methods. *SIAM Journal on Numerical Analysis*, 58(6):3406–3426, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Meng:2024:KML

[MZ24] Shixu Meng and Bo Zhang. A kernel machine learning for inverse source and scattering problems. *SIAM Journal on Numerical Analysis*, 62(3):1443–1464, June 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1597381`.

Ma:2022:FOU

[MZZ22] Chuwen Ma, Qinghai Zhang, and Weiying Zheng. A fourth-order unfitted characteristic finite element method for solving the advection–diffusion equation on time-varying domains. *SIAM Journal on Numerical Analysis*, 60(4):2203–2224, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1483475`.

Nie:2022:UCA

[ND22] Daxin Nie and Weihua Deng. A unified convergence analysis for the fractional diffusion equation driven by fractional Gaussian noise with Hurst index $H \in (0, 1)$. *SIAM Journal on Numerical Analysis*, 60(3):1548–1573, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1422616`.

Nordstrom:2020:NBC

[NH20] Jan Nordström and Thomas M. Hagstrom. The number of boundary conditions for initial boundary value problems. *SIAM Journal on Numerical Analysis*, 58(5):2818–2828, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ni:2021:ALR

[Ni21] Angxiu Ni. Approximating linear response by nonintrusive shadowing algorithms. *SIAM Journal on Numerical Analysis*, 59(6):2843–2865, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Neilan:2021:DFS

[NO21] Michael Neilan and Baris Otus. Divergence-free Scott–Vogelius elements on curved domains. *SIAM Journal on Numerical Analysis*, 59(2): 1090–1116, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Noelle:2022:CBC

[NPT22] Sebastian Noelle, Martin Parisot, and Tabea Tscherpel. A class of boundary conditions for time-discrete Green–Naghdi equations with bathymetry. *SIAM Journal on Numerical Analysis*, 60 (5):2681–2712, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1426031`.

Novo:2021:EAP

[NR21] Julia Novo and Samuele Rubino. Error analysis of proper orthogonal decomposition stabilized methods for incompressible flows. *SIAM Journal on Numerical Analysis*, 59 (1):334–369, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Nochetto:2022:GCP

[NRY22] Ricardo H. Nochetto, Michele Ruggeri, and Shuo Yang. Gamma-convergent projection-free finite element methods for nematic liquid crystals: The Ericksen model. *SIAM Journal on Numerical Analysis*, 60(2):856–887, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1407495`.

Nie:2022:SCO

[NSD22] Daxin Nie, Jing Sun, and Weihua Deng. Strong convergence order for the scheme of fractional diffusion equation driven by fractional Gaussian noise. *SIAM Journal on Numerical Analysis*, 60 (4):1879–1904, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1356270`.

Nakatsukasa:2021:ELB

[NT21a] Yuji Nakatsukasa and Alex Townsend. Error localization of best L_1 polynomial approximants. *SIAM Journal on Numerical Analysis*, 59(1):314–333, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Nakatsukasa:2021:RLA

[NT21b] Yuji Nakatsukasa and Lloyd N. Trefethen. Reciprocal-log approximation and planar PDE solvers. *SIAM Journal on Numerical Analysis*, 59(6):2801–2822, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ning:2022:EET

[NWZ22] Cui Ning, Yifei Wu, and Xiaofei Zhao. An embedded exponential-type low-regularity integrator for mKdV equation. *SIAM Journal on Numerical Analysis*, 60 (3):999–1025, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1408166`.

Ohsawa:2023:PQI

[Ohs23] Tomoki Ohsawa. Preservation of quadratic invariants by semiexplicit symplectic integrators for nonseparable Hamiltonian systems. *SIAM Journal on Numerical Analysis*, 61(3):1293–1315, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1517718`.

Owen:2024:GCS

[OP24] Art B. Owen and Zexin Pan. Gain coefficients for scrambled Halton points. *SIAM Journal on Numerical Analysis*, 62(3): 1021–1038, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Osborne:2024:ANA

[OS24] Yohance A. P. Osborne and Iain Smears. Analysis and numerical approximation of stationary second-order mean field game partial differential inclusions. *SIAM Journal on Numerical Analysis*, 62(1): 138–166, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ostermann:2023:EER

[OSV23] Alexander Ostermann, Fardin Saedpanah, and Nasrin Vaisi. Explicit exponential Runge–Kutta methods for semilinear integro-differential equations. *SIAM Journal on Numerical Analysis*, 61(3):1405–1425, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1504056`.

Otarola:2022:FSO

[Otá22] Enrique Otárola. Fractional semilinear optimal control: Optimality conditions, convergence, and error analysis. *SIAM Journal on Numerical Analysis*, 60(1):1–27, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https:`

//epubs.siam.org/doi/10.1137/20M1356294.

Papadopoulos:2022:NAD

[Pap22] Ioannis P. A. Papadopoulos. Numerical analysis of a discontinuous Galerkin method for the Borrvall–Petersson topology optimization problem. *SIAM Journal on Numerical Analysis*, 60(5):2538–2564, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1438943.

Park:2020:ASM

[Par20] Jongho Park. Additive Schwarz methods for convex optimization as gradient methods. *SIAM Journal on Numerical Analysis*, 58(3):1495–1530, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Peng:2021:SEA

[PCQL21] Zhichao Peng, Yingda Cheng, Jing-Mei Qiu, and Fengyan Li. Stability-enhanced AP IMEX1-LDG method: Energy-based stability and rigorous AP property. *SIAM Journal on Numerical Analysis*, 59(2):925–954, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Provoost:2024:LTF

[PM24] Evert Provoost and Wim Michiels. The Lanczos tau framework for time-delay systems: Padé approximation and collocation revisited. *SIAM Journal on Numerical Analysis*, 62(6):2529–2548, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/24M164611X.

Pareschi:2022:MPF

[PR22] Lorenzo Pareschi and Thomas Rey. Moment preserving Fourier–Galerkin spectral methods and application to the Boltzmann equation. *SIAM Journal on Numerical Analysis*, 60(6):3216–3240, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1423452.

Pradovera:2020:IRM

[Pra20] Davide Pradovera. Interpolatory rational model order reduction of parametric problems lacking uniform inf–sup stability. *SIAM Journal on Numerical Analysis*, 58(4):2265–2293, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Peszynska:2020:ASC

[PS20] Małgorzata Peszynska and Ralph E. Showalter. Approximation of scalar conservation law with hysteresis. *SIAM Journal on Numerical Analysis*, 58(2):962–987, ???? 2020. CODEN SJNAAM. ISSN

0036-1429 (print), 1095-7170 (electronic).

Potts:2021:AHD

[PS21] Daniel Potts and Michael Schmischke. Approximation of high-dimensional periodic functions with Fourier-based methods. *SIAM Journal on Numerical Analysis*, 59(5): 2393–2429, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Perrin:2022:NSS

[PS22] Charlotte Perrin and Khaled Saleh. Numerical staggered schemes for the free-congested Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 60(4): 1824–1852, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1436488`.

Parker:2024:SLP

[PS24] Charles Parker and Endre Süli. Stable lifting of polynomial traces on triangles. *SIAM Journal on Numerical Analysis*, 62(2):692–717, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Przybylowicz:2022:EAS

[PSS22] Paweł Przybyłowicz, Michał Sobieraj, and Lukasz Stępień. Efficient approximation of SDEs driven by countably dimensional Wiener process and Poisson random measure. *SIAM Journal on Numerical Analysis*, 60(2):824–855, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1442747`.

Pozharska:2022:NSR

[PU22] Kateryna Pozharska and Tino Ullrich. A note on sampling recovery of multivariate functions in the uniform norm. *SIAM Journal on Numerical Analysis*, 60(3):1363–1384, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1410580`.

Qian:2021:FMG

[QS21] Jianliang Qian and Chao Song. Fast multiscale Gaussian beam method for three-dimensional elastic wave equations in bounded domains. *SIAM Journal on Numerical Analysis*, 59(5):2536–2570, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Qi:2020:EES

[QW20] Ruisheng Qi and Xiaojie Wang. Error estimates of semidiscrete and fully discrete finite element methods for the Cahn–Hilliard–Cook equation. *SIAM Journal on Numerical Analysis*, 58(3):1613–1653,

???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Quan:2023:NSC

[QW23] Chaoyu Quan and Xu Wu. H^1-norm stability and convergence of an L2-type method on nonuniform meshes for subdiffusion equation. *SIAM Journal on Numerical Analysis*, 61(5):2106–2132, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1506468`.

Qin:2022:VTS

[QWL22] Yi Qin, Yongshuai Wang, and Jian Li. A variable time step time filter algorithm for the geothermal system. *SIAM Journal on Numerical Analysis*, 60(5):2781–2806, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1464828`.

Qiu:2020:AFO

[QZ20] Weifeng Qiu and Shun Zhang. Adaptive first-order system least-squares finite element methods for second-order elliptic equations in nondivergence form. *SIAM Journal on Numerical Analysis*, 58(6):3286–3308, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Rieder:2025:VCQ

[Rie25] Alexander Rieder. A p-version of convolution quadrature in wave propagation. *SIAM Journal on Numerical Analysis*, 63(4):1729–1756, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1642524`.

Ranocha:2020:ESE

[RK20] Hendrik Ranocha and David I. Ketcheson. Energy stability of explicit Runge–Kutta methods for nonautonomous or nonlinear problems. *SIAM Journal on Numerical Analysis*, 58(6):3382–3405, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ruggiu:2020:EAS

[RN20] Andrea Alessandro Ruggiu and Jan Nordström. Eigenvalue analysis for summation-by-parts finite difference time discretizations. *SIAM Journal on Numerical Analysis*, 58(2):907–928, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Reusken:2021:ASD

[RS21a] Arnold Reusken and Benjamin Stamm. Analysis of the Schwarz domain decomposition method for the conductor-like screening con-

tinuum model. *SIAM Journal on Numerical Analysis*, 59 (2):769–796, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Rousset:2021:GFL

[RS21b] Frédéric Rousset and Katharina Schratz. A general framework of low regularity integrators. *SIAM Journal on Numerical Analysis*, 59(3):1735–1768, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Rumpf:2022:FEA

[RSS22] Martin Rumpf, Stefan Simon, and Christoph Smoch. Finite element approximation of large-scale isometric deformations of parametrized surfaces. *SIAM Journal on Numerical Analysis*, 60(5):2945–2962, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1455292`.

Rumpf:2024:TSF

[RSS24] Martin Rumpf, Stefan Simon, and Christoph Smoch. Two-scale finite element approximation of a homogenized plate model. *SIAM Journal on Numerical Analysis*, 62(5):2121–2142, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1596272`.

Rubino:2020:NAP

[Rub20] Samuele Rubino. Numerical analysis of a projection-based stabilized POD-ROM for incompressible flows. *SIAM Journal on Numerical Analysis*, 58(4):2019–2058, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Rieger:2024:ACD

[RW24] Christian Rieger and Holger Wendland. On the approximability and curse of dimensionality of certain classes of high-dimensional functions. *SIAM Journal on Numerical Analysis*, 62(2):842–871, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ren:2024:EBD

[RZZ24] Kui Ren, Lu Zhang, and Yin Zhou. An energy-based discontinuous Galerkin method for the nonlinear Schrödinger equation with wave operator. *SIAM Journal on Numerical Analysis*, 62(6):2459–2483, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1597496`.

Sanz-Alonso:2025:GPR

[SAY25] Daniel Sanz-Alonso and Ruiyi Yang. Gaussian process regression under computational

and epistemic misspecification. *SIAM Journal on Numerical Analysis*, 63(2):495–519, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1624749`.

Sharan:2022:TSS

[SBL22] Nek Sharan, Peter T. Brady, and Daniel Livescu. Time stability of strong boundary conditions in finite-difference schemes for hyperbolic systems. *SIAM Journal on Numerical Analysis*, 60(3):1331–1362, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1419957`.

Shao:2023:CAN

[SC23a] Nian Shao and Wenbin Chen. Convergence analysis of Newton–Schur method for symmetric elliptic eigenvalue problem. *SIAM Journal on Numerical Analysis*, 61(1):315–342, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1448847`.

Shi:2023:HOB

[SC23b] Jiankang Shi and Minghua Chen. High-order BDF convolution quadrature for subdiffusion models with a singular source term. *SIAM Journal on Numerical Analysis*, 61(6):2559–2579, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Scheel:2023:NEM

[Sch23] Arnd Scheel. Nonlinear eigenvalue methods for linear pointwise stability of nonlinear waves. *SIAM Journal on Numerical Analysis*, 61(2):592–616, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1492969`.

Sarna:2020:CAG

[SGT20] Neeraj Sarna, Jan Giesselmann, and Manuel Torrilhon. Convergence analysis of Grad's Hermite expansion for linear kinetic equations. *SIAM Journal on Numerical Analysis*, 58(2):1164–1194, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Scholz:2021:UHO

[SJ21] Felix Scholz and Bert Jüttler. Using high-order transport theorems for implicitly defined moving curves to perform quadrature on planar domains. *SIAM Journal on Numerical Analysis*, 59(4):2138–2162, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Schiemann:2025:DTV

[SM25] Annika Schiemann and Paul Manns. Discretization of total variation in optimization with integrality constraints. *SIAM Journal on Numerical Analysis*, 63(1):437–460, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M164608X`.

Sprekeler:2024:HNF

[Spr24] Timo Sprekeler. Homogenization of nondivergence-form elliptic equations with discontinuous coefficients and finite element approximation of the homogenized problem. *SIAM Journal on Numerical Analysis*, 62(2):646–666, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Sonner:2020:SOP

[SR20] Florian Sonner and Thomas Richter. Second order pressure estimates for the Crank–Nicolson discretization of the incompressible Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 58(1):375–409, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Shen:2025:PIM

[SS25] Zewen Shen and Kirill Serkh. On polynomial interpolation in the monomial basis. *SIAM Journal on Numerical Analysis*, 63(2):469–494, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1623215`.

Sheng:2020:FFL

[SST+20] Changtao Sheng, Jie Shen, Tao Tang, Li-Lian Wang, and Huifang Yuan. Fast Fourier-like mapped Chebyshev spectral-Galerkin methods for PDEs with integral fractional Laplacian in unbounded domains. *SIAM Journal on Numerical Analysis*, 58(5):2435–2464, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Sheng:2023:EMC

[SSX23] Changtao Sheng, Bihao Su, and Chenglong Xu. Efficient Monte Carlo method for integral fractional Laplacian in multiple dimensions. *SIAM Journal on Numerical Analysis*, 61(5):2035–2061, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1504706`.

Shi:2023:EDD

[SSZ23] Feng Shi, Yizhong Sun, and Haibiao Zheng. Ensemble domain decomposition algorithm for the fully mixed random Stokes–Darcy model with

the Beavers–Joseph interface conditions. *SIAM Journal on Numerical Analysis*, 61 (3):1482–1512, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1482846`.

Sprekeler:2025:FEA

[SSZ25] Timo Sprekeler, Endre Süli, and Zhiwen Zhang. Finite element approximation of stationary Fokker–Planck–Kolmogorov equations with application to periodic numerical homogenization. *SIAM Journal on Numerical Analysis*, 63(3):1315–1343, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1692848`.

Stamm:2022:QOF

[ST22] Benjamin Stamm and Lambert Theisen. A quasi-optimal factorization preconditioner for periodic Schrödinger eigenstates in anisotropically expanding domains. *SIAM Journal on Numerical Analysis*, 60(5):2508–2537, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1456005`.

Storn:2020:CLC

[Sto20] Johannes Storn. Computation of the LBB constant for the Stokes equation with a least-squares finite element method. *SIAM Journal on Numerical Analysis*, 58(1):86–108, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Sun:2021:ALO

[Sun21] Weiwei Sun. Analysis of lowest-order characteristics-mixed FEMs for incompressible miscible flow in porous media. *SIAM Journal on Numerical Analysis*, 59(4):1875–1895, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Scarabel:2024:EID

[SV24] Francesca Scarabel and Rossana Vermiglio. Equations with infinite delay: Pseudospectral discretization for numerical stability and bifurcation in an abstract framework. *SIAM Journal on Numerical Analysis*, 62(4):1736–1758, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1581133`.

Schluchtermann:2023:NSF

[SW23] Georg Schlüchtermann and Michael Wibmer. Numerical solution of free stochastic differential equations. *SIAM Journal on Numerical Analysis*, 61(6):2623–2650, November 2023. CODEN SJNAAM.

ISSN 0036-1429 (print), 1095-7170 (electronic).

Santin:2024:OTD

[SWH24] Gabriele Santin, Tizian Wenzel, and Bernard Haasdonk. On the optimality of target-data-dependent kernel greedy interpolation in Sobolev reproducing kernel Hilbert spaces. *SIAM Journal on Numerical Analysis*, 62(5):2249–2275, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1587956`.

Sun:2022:ELS

[SWW22] Zheng Sun, Yuanzhe Wei, and Kailiang Wu. On energy laws and stability of Runge–Kutta methods for linear seminegative problems. *SIAM Journal on Numerical Analysis*, 60(5):2448–2481, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1472218`.

Sun:2020:FEA

[SWZ20] Ting Sun, Jilu Wang, and Chunxiong Zheng. Fast evaluation of artificial boundary conditions for advection diffusion equations. *SIAM Journal on Numerical Analysis*, 58(6):3530–3557, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Su:2025:IHI

[SWZ+25] Hua Su, Haoran Wang, Lei Zhang, Jin Zhao, and Xiangcheng Zheng. Improved high-index saddle dynamics for finding saddle points and solution landscape. *SIAM Journal on Numerical Analysis*, 63(4):1757–1775, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/25M173212X`.

Shao:2020:BRW

[SX20a] Sihong Shao and Yunfeng Xiong. Branching random walk solutions to the Wigner equation. *SIAM Journal on Numerical Analysis*, 58(5):2589–2608, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Shen:2020:UBP

[SX20b] Jie Shen and Jie Xu. Unconditionally bound preserving and energy dissipative schemes for a class of Keller–Segel equations. *SIAM Journal on Numerical Analysis*, 58(3):1674–1695, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Serna:2020:CRK

[SZ20] J. M. Sanz Serna and K. C. Zygalakis. Contractivity of Runge–Kutta methods for convex gradient systems.

SIAM Journal on Numerical Analysis, 58(4):2079–2092, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Serna:2021:CBL

[SZ21a] J. M. Sanz Serna and K. C. Zygalakis. The connections between Lyapunov functions for some optimization algorithms and differential equations. *SIAM Journal on Numerical Analysis*, 59(3):1542–1565, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Sharma:2021:NSS

[SZ21b] Upanshu Sharma and Wei Zhang. NonReversible sampling schemes on submanifolds. *SIAM Journal on Numerical Analysis*, 59(6):2989–3031, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Sun:2025:CER

[SZ25] Chunlong Sun and Wenlong Zhang. Convergence estimates of regularized solutions to inverse space-dependent source problems with time-dependent boundary measurement. *SIAM Journal on Numerical Analysis*, 63(4):1369–1397, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1692885`.

Tong:2024:PPM

[TC24] Fenghua Tong and Yongyong Cai. Positivity preserving and mass conservative projection method for the Poisson–Nernst–Planck equation. *SIAM Journal on Numerical Analysis*, 62 (4):2004–2024, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1581649`.

Tran:2024:DWD

[Tra24] Ngoc Tien Tran. Discrete weak duality of hybrid high-order methods for convex minimization problems. *SIAM Journal on Numerical Analysis*, 62(4):1492–1514, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1594534`.

Takeda:2023:GEH

[TS23] Kota Takeda and Takashi Sakajo. Geometric ergodicity for Hamiltonian Monte Carlo on compact manifolds. *SIAM Journal on Numerical Analysis*, 61(6):2994–3013, December 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Tai:2023:UPN

[TWZZ23] Xue-Cheng Tai, Ragnar Winther, Xiaodi Zhang, and Weiying

Zheng. A uniform preconditioner for a Newton algorithm for total variation minimization and minimum-surface problems. *SIAM Journal on Numerical Analysis*, 61(5):2062–2083, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1512776`.

Vaccaro:2023:AOD

[VL23] Jennifer Vaccaro and Konstantin Lipnikov. Applying an oriented divergence theorem to swept face remap. *SIAM Journal on Numerical Analysis*, 61(5):2285–2304, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1518359`.

vonWahl:2023:EAP

[vWR23] Henry von Wahl and Thomas Richter. Error analysis for a parabolic PDE model problem on a coupled moving domain in a fully Eulerian framework. *SIAM Journal on Numerical Analysis*, 61(1):286–314, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1458417`.

Wang:2023:AEL

[Wan23] Haiyong Wang. Analysis of error localization of Chebyshev spectral approximations. *SIAM Journal on Numerical Analysis*, 61(2):952–972, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1481452`.

Wu:2021:EAE

[WB21] Yongke Wu and Yanhong Bai. Error analysis of energy-preserving mixed finite element methods for the Hodge wave equation. *SIAM Journal on Numerical Analysis*, 59(3):1433–1454, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Williams:2024:FSD

[WD24] Christopher Williams and Kenneth Duru. Full-spectrum dispersion relation preserving summation-by-parts operators. *SIAM Journal on Numerical Analysis*, 62(4):1565–1588, August 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1586471`.

Wei:2021:PDF

[WHL21] Huayi Wei, Xuehai Huang, and Ao Li. Piecewise divergence-free nonconforming virtual elements for Stokes problem in any dimensions. *SIAM Journal on Numerical Analysis*, 59(3):1835–1856, ???? 2021. CODEN SJNAAM. ISSN 0036-

1429 (print), 1095-7170 (electronic).

Wu:2023:PPC

[WJS23] Kailiang Wu, Haili Jiang, and Chi-Wang Shu. Provably positive central discontinuous Galerkin schemes via geometric quasilinearization for ideal MHD equations. *SIAM Journal on Numerical Analysis*, 61(1):250–285, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1486996`.

Wang:2023:FDD

[WK23] Siyang Wang and Gunilla Kreiss. A finite difference-discontinuous Galerkin method for the wave equation in second order form. *SIAM Journal on Numerical Analysis*, 61(4):1962–1988, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1530690`.

Wan:2020:PEE

[WL20] Andy T. S. Wan and Marc Laforest. A posteriori error estimation for the p-curl problem. *SIAM Journal on Numerical Analysis*, 58(1):460–491, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wang:2023:ESP

[WL23] Wansheng Wang and Shoufu Li. Efficient stability-preserving numerical methods for nonlinear coercive problems in vector space. *SIAM Journal on Numerical Analysis*, 61(2):872–904, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1443273`.

Wu:2023:AFT

[WLF23] Jilian Wu, Ning Li, and Xinlong Feng. Analysis of a filtered time-stepping finite element method for natural convection problems. *SIAM Journal on Numerical Analysis*, 61(2):837–871, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1451476`.

Wagner:2021:EAP

[WLPU21] Fabian Wagner, Jonas Latz, Iason Papaioannou, and Elisabeth Ullmann. Error analysis for probabilities of rare events with approximate models. *SIAM Journal on Numerical Analysis*, 59(4):1948–1975, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wu:2025:PWH

[WLYZ25] Hao Wu, Shu Liu, Xiaojing Ye, and Haomin Zhou. Param-

eterized Wasserstein Hamiltonian flow. *SIAM Journal on Numerical Analysis*, 63(1):360–395, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M159281X`.

Wu:2023:UTQ

[WM23] Bowei Wu and Per-Gunnar Martinsson. A unified trapezoidal quadrature method for singular and hypersingular boundary integral operators on curved surfaces. *SIAM Journal on Numerical Analysis*, 61(5):2182–2208, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1520372`.

Wormell:2025:OPA

[Wor25] Caroline Wormell. Orthogonal polynomial approximation and extended dynamic mode decomposition in chaos. *SIAM Journal on Numerical Analysis*, 63(1):122–148, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1597873`.

Wormell:2021:SCD

[WR21] Caroline L. Wormell and Sebastian Reich. Spectral convergence of diffusion maps: Improved error bounds and an alternative normalization. *SIAM Journal on Numerical Analysis*, 59(3):1687–1734, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wang:2023:OLT

[WS23] Dongling Wang and Martin Stynes. Optimal long-time decay rate of numerical solutions for nonlinear time-fractional evolutionary equations. *SIAM Journal on Numerical Analysis*, 61(5):2011–2034, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1494361`.

Weidling:2020:OCR

[WSH20] Frederic Weidling, Benjamin Sprung, and Thorsten Hohage. Optimal convergence rates for Tikhonov regularization in Besov spaces. *SIAM Journal on Numerical Analysis*, 58(1):21–47, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wang:2024:ALD

[WTSZ24] Haijin Wang, Qi Tao, Chi-Wang Shu, and Qiang Zhang. Analysis of local discontinuous Galerkin methods with implicit-explicit time marching for linearized KdV equations. *SIAM Journal on Numerical Analysis*, 62(5):2222–2248, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-

7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1635818`.

Wang:2020:PDW

[WW20] Chunmei Wang and Junping Wang. A primal-dual weak Galerkin finite element method for Fokker–Planck type equations. *SIAM Journal on Numerical Analysis*, 58(5): 2632–2661, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wu:2020:SAF

[WX20] Shuonan Wu and Jinchao Xu. Simplex-averaged finite element methods for $H(\mathrm{grad})$, $H(\mathrm{curl})$, and $H(\mathrm{div})$ convection–diffusion problems. *SIAM Journal on Numerical Analysis*, 58(1):884–906, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wei:2020:CAP

[WYZ20a] Changkun Wei, Jiaqing Yang, and Bo Zhang. Convergence analysis of the PML method for time-domain electromagnetic scattering problems. *SIAM Journal on Numerical Analysis*, 58(3):1918–1940, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Winckler:2020:AEE

[WYZ20b] Malte Winckler, Irwin Yousept, and Jun Zou. Adaptive edge element approximation for $H(\mathrm{curl})$ elliptic variational inequalities of second kind. *SIAM Journal on Numerical Analysis*, 58(3):1941–1964, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wang:2024:EAF

[WYZ24] Li-Lian Wang, Jingye Yan, and Xiaolong Zhang. Error analysis of a first-order IMEX scheme for the logarithmic Schrödinger equation. *SIAM Journal on Numerical Analysis*, 62(1):119–137, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wang:2020:HOT

[WZ20] Kai Wang and Zhi Zhou. High-order time stepping schemes for semilinear subdiffusion equations. *SIAM Journal on Numerical Analysis*, 58(6): 3226–3250, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wang:2021:EES

[WZ21] Bin Wang and Xiaofei Zhao. Error estimates of some splitting schemes for charged-particle dynamics under strong magnetic field. *SIAM Journal on Numerical Analysis*, 59(4): 2075–2105, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wang:2023:GTS

[WZ23] Bin Wang and Xiaofei Zhao. Geometric two-scale integrators for highly oscillatory system: Uniform accuracy and near conservations. *SIAM Journal on Numerical Analysis*, 61(3):1246–1277, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1462908`.

Wu:2025:SNF

[WZ25] Shuonan Wu and Hao Zhou. A stabilized nonconforming finite element method for the surface biharmonic problem. *SIAM Journal on Numerical Analysis*, 63(4):1642–1665, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1707936`.

Wang:2025:UFO

[WZlL25] Xuping Wang, Xuan Zhao, and Hong lin Liao. A unified framework on the original energy laws of three effective classes of Runge–Kutta methods for phase field crystal type models. *SIAM Journal on Numerical Analysis*, 63(4):1808–1832, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1701770`.

Wang:2022:SSB

[WZZ22] Xu Wang, Weidong Zhao, and Tao Zhou. Sinc-θ schemes for backward stochastic differential equations. *SIAM Journal on Numerical Analysis*, 60(4):1799–1823, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1444679`.

Xiang:2021:CRS

[Xia21] Shuhuang Xiang. Convergence rates on spectral orthogonal projection approximation for functions of algebraic and logarithmatic regularities. *SIAM Journal on Numerical Analysis*, 59(3):1374–1398, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Xiong:2024:CCD

[XLZZ24] Zhe Xiong, Lei Li, Ya-Nan Zhu, and Xiaoqun Zhang. On the convergence of continuous and discrete unbalanced optimal transport models for 1-Wasserstein distance. *SIAM Journal on Numerical Analysis*, 62(2):749–774, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Xu:2020:EEF

[XSZ20] Yuan Xu, Chi-Wang Shu, and Qiang Zhang. Error estimate of the fourth-order Runge–Kutta discontinuous Galerkin

methods for linear hyperbolic equations. *SIAM Journal on Numerical Analysis*, 58(5): 2885–2914, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Xu:2022:CAI

[XZ22] Xuefeng Xu and Chen-Song Zhang. Convergence analysis of inexact two-grid methods: A theoretical framework. *SIAM Journal on Numerical Analysis*, 60(1):133–156, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1356075`.

Ye:2021:CDF

[YC21] Changqing Ye and Junzhi Cui. Convergence of Dziuk's fully discrete linearly implicit scheme for curve shortening flow. *SIAM Journal on Numerical Analysis*, 59(6):2823–2842, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Yu:2021:AAS

[YDS21] Yi Yu, Maksymilian Dryja, and Marcus Sarkis. From additive average Schwarz methods to nonoverlapping spectral additive Schwarz methods. *SIAM Journal on Numerical Analysis*, 59(5):2608–2638, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Yang:2025:LTS

[YH25] Xiaochen Yang and Yaozhong Hu. Long time stability and numerical stability of implicit schemes for stochastic heat equations. *SIAM Journal on Numerical Analysis*, 63(1):396–421, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1636691`.

Yu:2022:PHA

[YHLR22] Xiuchen Yu, Guanghui Hu, Wangtao Lu, and Andreas Rathsfeld. PML and high-accuracy boundary integral equation solver for wave scattering by a locally defected periodic surface. *SIAM Journal on Numerical Analysis*, 60(5):2592–2625, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1439705`.

Yi:2022:LFE

[YLZ22] Son-Young Yi, Sanghyun Lee, and Ludmil Zikatanov. Locking-free enriched Galerkin method for linear elasticity. *SIAM Journal on Numerical Analysis*, 60(1):52–75, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1391353`.

Yang:2024:PEE

[YWB24] Yidu Yang, Shixi Wang, and Hai Bi. The a posteriori error estimates of the FE approximation of defective eigenvalues for non-self-adjoint eigenvalue problems. *SIAM Journal on Numerical Analysis*, 62(6):2419–2438, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M162065X`.

Ye:2020:SFW

[YZ20] Xiu Ye and Shangyou Zhang. A stabilizer free weak Galerkin method for the biharmonic equation on polytopal meshes. *SIAM Journal on Numerical Analysis*, 58(5):2572–2588, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Yang:2023:PSS

[YZDCNC23] Minglei Yang, Guannan Zhang, Diego Del-Castillo-Negrete, and Yanzhao Cao. A probabilistic scheme for semilinear nonlocal diffusion equations with volume constraints. *SIAM Journal on Numerical Analysis*, 61(6):2718–2743, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Yang:2020:UPD

[YZZ20] Jie Yang, Weidong Zhao, and Tao Zhou. A unified probabilistic discretization scheme for FBSDEs: Stability, consistency, and convergence analysis. *SIAM Journal on Numerical Analysis*, 58(4):2351–2375, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zhao:2021:SDM

[ZCPZ21] Lina Zhao, Eric T. Chung, Eun-Jae Park, and Guanyu Zhou. Staggered DG method for coupling of the Stokes and Darcy–Forchheimer problems. *SIAM Journal on Numerical Analysis*, 59(1):1–31, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zheng:2020:SEA

[ZDMZ20] Chunxiong Zheng, Qiang Du, Xiang Ma, and Jiwei Zhang. Stability and error analysis for a second-order fast approximation of the local and nonlocal diffusion equations on the real line. *SIAM Journal on Numerical Analysis*, 58(3):1893–1917, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zaitzeff:2020:VEI

[ZEG20] Alexander Zaitzeff, Selim Esedoáğlu, and Krishna Garikipati. Variational extrapolation of implicit schemes for general gradient flows. *SIAM Journal on Numerical Analysis*, 58(5):2799–2817, ???? 2020. CODEN SJNAAM. ISSN 0036-

1429 (print), 1095-7170 (electronic).

Zhang:2022:ECP

[Zha22] Ruming Zhang. Exponential convergence of perfectly matched layers for scattering problems with periodic surfaces. *SIAM Journal on Numerical Analysis*, 60 (2):804–823, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1439043`.

Zhang:2023:HOC

[Zha23a] Ruming Zhang. Higher-order convergence of perfectly matched layers in three-dimensional biperiodic surface scattering problems. *SIAM Journal on Numerical Analysis*, 61(6):2917–2939, December 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zhang:2023:SDM

[Zha23b] Ruming Zhang. A spectral decomposition method to approximate Dirichlet-to–Neumann maps in complicated waveguides. *SIAM Journal on Numerical Analysis*, 61(3):1195–1217, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1485425`.

Zvonek:2025:CST

[ZHT25] Jennifer Zvonek, Andrew J. Horning, and Alex Townsend. ContHutch++: Stochastic trace estimation for implicit integral operators. *SIAM Journal on Numerical Analysis*, 63(1):334–359, ???? 2025. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1614365`.

Zhou:2021:NAR

[ZL21] Jiaxin Zhou and Wangtao Lu. Numerical analysis of resonances by a slab of subwavelength slits by Fourier-matching method. *SIAM Journal on Numerical Analysis*, 59 (4):2106–2137, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zhang:2023:CAL

[ZN23] Erchuan Zhang and Lyle Noakes. Convergence analysis of leapfrog for geodesics. *SIAM Journal on Numerical Analysis*, 61(5):2261–2284, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1515173`.

Zouraris:2023:EER

[Zou23] Georgios E. Zouraris. Error estimation of the relaxation finite difference scheme for the nonlinear Schrödinger

equation. *SIAM Journal on Numerical Analysis*, 61 (1):365–397, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1399130`.

Zhong:2023:SAM

[ZQ23] Xiang Zhong and Weifeng Qiu. Spectral analysis of a mixed method for linear elasticity. *SIAM Journal on Numerical Analysis*, 61(4):1885–1917, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M148611X`.

Zhang:2023:SNP

[ZRZ23] Yuhong Zhang, Yao Rong, and Haibiao Zheng. A study of numerical pollution of the decoupled algorithm for the convection model in superposed fluid and porous layers. *SIAM Journal on Numerical Analysis*, 61(2):1018–1056, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1469699`.

Zhang:2020:WPF

[ZSH20] Yuhong Zhang, Li Shan, and Yanren Hou. Well-posedness and finite element approximation for the convection model in superposed fluid and porous layers. *SIAM Journal on Numerical Analysis*, 58(1):541–564, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zheng:2020:EEN

[ZW20a] Xiangcheng Zheng and Hong Wang. An error estimate of a numerical approximation to a hidden-memory variable-order space-time fractional diffusion equation. *SIAM Journal on Numerical Analysis*, 58(5): 2492–2514, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zheng:2020:OON

[ZW20b] Xiangcheng Zheng and Hong Wang. An optimal-order numerical approximation to variable-order space-fractional diffusion equations on uniform or graded meshes. *SIAM Journal on Numerical Analysis*, 58 (1):330–352, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zhang:2022:HOF

[ZW22] Lu Zhang and Siyang Wang. A high order finite difference method for the elastic wave equation in bounded domains with nonconforming interfaces. *SIAM Journal on Numerical Analysis*, 60(3):1516–1547, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1422586`.

Zhou:2023:DAC

[ZW23] Yu Zhou and Haijun Wu. Dispersion analysis of CIP-FEM for the Helmholtz equation. *SIAM Journal on Numerical Analysis*, 61(3):1278–1292, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M143827X`.

Zhu:2024:BPB

[ZW24] Bingxin Zhu and Haijun Wu. The $(p, p-1)$-HDG method for the Helmholtz equation with large wave number. *SIAM Journal on Numerical Analysis*, 62(3):1394–1419, June 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1562639`.

Zhang:2020:ECM

[ZWC20] Wenzhong Zhang, Bo Wang, and Wei Cai. Exponential convergence for multipole and local expansions and their translations for sources in layered media: Two-dimensional acoustic wave. *SIAM Journal on Numerical Analysis*, 58(3): 1440–1468, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zhang:2024:SOG

[ZWT24a] Hong Zhang, Haifeng Wang, and Xueqing Teng. A second-order, global-in-time energy stable implicit-explicit Runge–Kutta scheme for the phase field crystal equation. *SIAM Journal on Numerical Analysis*, 62(6):2667–2697, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1637623`.

Zhu:2024:EAB

[ZWT24b] Aiqing Zhu, Sidi Wu, and Yifa Tang. Error analysis based on inverse modified differential equations for discovery of dynamics using linear multistep methods and deep learning. *SIAM Journal on Numerical Analysis*, 62(5):2087–2120, ???? 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M152373X`.

Zhang:2022:EEE

[ZZZ22a] Lei Zhang, Pingwen Zhang, and Xiangcheng Zheng. Error estimates for Euler discretization of high-index saddle dynamics. *SIAM Journal on Numerical Analysis*, 60(5):2925–2944, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1458314`.

Zhang:2022:IPD

[ZZZ22b] Zhengqi Zhang, Zhidong Zhang, and Zhi Zhou. Identification of potential in diffu-

sion equations from terminal observation: Analysis and discrete approximation. *SIAM Journal on Numerical Analysis*, 60(5):2834–2865, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1446708`.