A Complete Bibliography of Publications of Claude Elwood Shannon

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16 January 2020
Version 1.77

Abstract
This bibliography records publications of Claude Elwood Shannon (1916–2001).

Title word cross-reference

$27$ [Sil18]. $4.00$ [Mur57]. $7 \times 10$ [Mur57]. $H'$ [Siq98]. $n$ [Sha55d, Sha93-45].
$P/N \to \infty$ [Sha48j]. $s$ [Sha55d, Sha93-45].


2001 [Gal03, Jam09, Pin01]. 2D [ZBM11].

3 [Cer17].

978 [Cer17]. 978-1-4767-6668-3 [Cer17].


chemical [SSAK06]. Chess [Sha50b, Sha93h, Sha78, Sha88, Sha50g, Sha93-37]. Chess-Playing [Sha50b, Sha93h]. China [BQhH08]. cipher [AMS+10, HN09]. Circuit [GBR07, HS46, MS53a, MS53b, MS53c, MS93c, MS93d, Sha53j, Sha93y, SM53].

Circuits [FM99, MS54, MS93a, MS93b, OS44, OS93, Sha37, Sha38, Sha4b, Sha44e, Sha49f, Sha55e, Sha93-51, Sha93-48, Sha93-53, SW93d, Jan14, MS56a, MS56b].

classical [SS07]. classification [APMS+12]. Claude [Ano01c, Cer17, Sil18, TW1+08, Ano0a, Ano0b, Ano00, Ano0a, Ano01b, Ano02, Bar01, Bro11, CS01, CLM+01, Cou01, Ell84, Eme01, Eph01, Gag98, Gal01, Gal03, Gol01, GBC+02, Gui03, Han10, Hor90, Hor92, Hor11, Jahn09, Jol01, Kha16, Lew01, Nah13, NWV94, O'R12, Pin01, Pri82, Pri84, Pri85, Roc10, Roc11, Sch06, Sha52a, Sha02a, Sha14, Sha97, SW93j, SW93i, SW93b, SG17, SF03, SK01, Str14, Van89, Wal01b, Zac16]. Closing [Gui04]. Closure [Sha44c]. Clustering [DGH+06]. coasts [YLR+10]. Cobol [Bar01]. Code
[Loe59, OS46, Sha43b, Gui04, Wri67]. Codes [Sha93-36, Sha59c]. Coding [Bot88, Gol49, Sha40a, Sha48a, Sha53d, Sha54b, Sha55c, Sha59a, Sha59b, Sha60, Sha93f, Sha93i, Sha93q, Sha93s, Sha93w, Sha93x, Sha93-38, TWA+87, Sha57a, SGB67a, SGB67b, WMS+12, Zee02]. codon [FMSS03, Zee02]. coherence [LMC11, YN11]. coherent [RM06, YN11]. collected [SW93k]. Collection [Bro11]. Colleges [HS54, HS93]. colon [APMS12]. Color [Sha40a]. Coloring [Sha93-54, Sha49g]. Combining [Gor06]. Communication [Hag79, OS46, Sha48b, Sha48c, Sha48h, Sha49a, Sha49b, SW49, Sha93d, Sha50f, Sha50i, Sha53a, Sha53b, SW63, SW71, SW76, SW83, Sha84a, Sha84b, Sha85, Sha93j, Sha93k, Sha93l, Sha93z, Sha93-32, Sha93-41, Sha93-40, Sha93-57, Sha97, Sha98b, Sha98a, SW98, Sha01, SW93c, Wea49, Wea53, Lyn77, Rog94, Sha58b, Sha61, SW64, SW69, SW72, SW75b, SW75a, SW78, SW81, Sha97, TT12, Yoc00, dPV00, Doo49]. Communications [Ano01c, Ano01b]. Comparison [GWZC12]. comparisons [AALR09]. compendium [Lev88]. complete [CHC+04, CHC+05]. complex [RFME+12, SAK06]. complexity [LR05, SBS+13]. component [TKL+12]. Components [Sha56f]. Compound [WVB10]. compounds [SGB02]. Computability [dLMSS54, dLMSS56, dLMSS93]. Computation [Bar01, Sha50a, Sha93-42, Ric03, Zee02]. Computer [Lap96, Lev88, Wha78, Bro00a, Sha50g, Sha93-37, Smi05, WL85, Pin01, Sha50j]. Computers [Sha53c, Sha53h, Sha93m, Sha93n, Sha93-33, SW93d, Sug13]. Computing [Bus15, DM15, Sha85, Wal01a, LM03, Min02]. comunicación [SW81]. comunicazioni [SW71, SW83]. Concavity [Sha55b, SH56, Sha93o, Sha93p]. concept [GB00]. Concepts [Som09]. conceptual [Ell09, Tim03]. Conceptualization [Asp85]. concerning [Tho09]. confidence [MHBL12]. confidentiality [Gag98]. configuration [WBB+12]. confined [Sen05]. Congress [Bro11]. Connected [DS46, DS93, Sha07]. Connection [Pin01]. Connections [AES17]. connectivity [RFME+12]. conservation [BQH08]. Consistency [Sha41b]. Contacts [Sha53i, Sha93-39]. Content [WVB10, Rif85]. context [CLM+01]. continued [Sha48c]. Continuous [Sha43a, Sha93b]. Contributions [Sha93-60, Wea53, Sha58c]. Control [BBS46, Min95, Sha49d, Sha51b, Sha93-41, Min02]. Controversies [Bar01]. Convergence [GV15]. conversation [Ell84, Pri84, Pri85]. Corporation [Pin01]. correcting [Wri67]. correlation [RD04]. Counters [Sha44b]. Counting [Ell09, Kör96, Sha44b, Sha44e, Koc05, LM03]. created [Nah13]. Creative [Sha52a]. Criteria [Sha41b]. Criterion [Sha59b, Sha93i, Sha60]. critical [ZBM11]. Crossbar [HS46]. crossings [GFD03]. Crossword [Efr08]. Crummy [MS54]. Cryptography [Roc99, Sha45a, SW93c, BB88]. Cryptology [Roc99]. crystalline [SBS+13]. CSIDC [Pin01]. Cubic [BERS86]. Cubics [Sha82b]. Cybernetics [DL63, Sha49d, Sha68a, Min02, Sha93-41].

Dartmouth [MMS06]. Data
data-smoothing [Bla65]. database [GB01]. Datalog [KNS17]. Daubechies [JZL98]. Days [Bul15]. Decomposition [GBR07, LB08, MHBL12]. Decrease [Szi64]. deep [HGR+12]. Deflection [Sha41f, Sha41e, Sha93-50, Sha93-46]. degree [ABS11, YN11]. Delay [Sha56c]. Delsarte [AL07]. Demonstrates [Sha14]. demonstrating [LHA+16]. Demonstration [Sha14]. densities [AALR09, Liu07]. Dependent [WVB10]. Derivation [BS50, BS93]. Derivatives [Sha54a]. Description [Sha56j, Sha93-42]. Descriptor [WVB10, GB00]. descriptors [GB01, GPMo6, SGB02]. Desflurane [BLR+02, BLR+01]. Design [FM99, Sha42, Sha93v, Sha93-55, SM53]. Detection [Sha44a, Sha93e, HSBJ02, HTR+08, LMC11]. detectors [WBB+12]. detects [CFRC04]. Determinate [Sha45b]. determined [YLR+10]. Deutung [Sha57b]. Development [Sha85, Sle74]. Developments [Sha50f, Sha50i, Sha93-40]. Device [PST48]. diagnosis [TKL+12]. diagnostic [Rif85]. diatom [Siq98]. Dictionary [Cor87]. Dies [Ano01a, Bar01, Joh01, Ano01c]. differences [GB01]. Differential [GB01, Sha41g, Sha42, Sha93-27, Sha93-55, SGB02, Sha41d]. Difficulty [Efr08]. diffusion [LS10]. Digital [ACK+01, Ano01c, Bul15, Cou01, Gol49, LP12, Sha50c, Ano01b, Cer17, Eme01, HDC96, Wal01b]. dimension [RAL+08, SBS+13]. Dimensional [Sha78, GWZC12, SJ04]. dimensionality [CS09, POA+08]. Diorama [Sha82a, SW93b]. Director [Zor89, Pin01]. Director-Elect [Pin01]. discipline [Mat94]. Discrete [Sha48g, Sha59a, Sha59b, Sha93i, Sha93w, Sha93x, Sha60, SGB67a, SGB67b]. Discussion [CMU+53, CMU+93]. Disjunctive [KNS17]. distinctions [Ell09]. distinguish [WMS+12]. distinguisher [AMS+10]. distinguishing [HN09]. Distortion [Sha59a]. distribution [Di 00, NS12]. Distributions [WVB10, AALR09, GPMo6]. Divergence [CCHL05, MPPP97]. divergences [AALR09]. diversity [BQhH08, BKU+94, De’12, Di 00, GB00, Gor06, ID00, Key05, MHBL12, Ric03, RS06, Siq98, SF03]. Division [Pin01]. Djingis [NWV94]. DNA [Bar01, Zha09]. Do [KNS17, dR55]. Doppler [HTR+08]. Down [Sha44b]. Dr. [Bre63]. Dream [Wal01a]. Dreetske [Lom05]. Driver [Sha78]. Drop [Sha82a, SW93b]. drug [FCW+00]. during [RAL+08]. dynamical [RAL+07]. dynamics [Let06, LM03].

[Bro11, Gal03, GBC+02, Jam09, SW93k, SW93t]. **EMC** [Pin01]. Employing
[OS46]. **enabled** [WMS+12]. **encryption** [Gag98]. **engineer** [Nah13].
**Engineering** [Cer88, Hag79, FFF09, Smi05, WL85]. **Engineers**
[Ano40b, Tra10, Jam10]. **England** [Sha78]. **English** [Sha51a, Sha93-34].
**Enigma** [Ano16, LHA]+16. **Ensembles** [Sha48e]. **entanglement**
[POA+08, ZBM11]. **entropic** [NS12]. **entropies** [APMS+12, GWZC12, LR05, WMS+12, ZBM11]. **Entropieverminderung**
[Szi29]. **Entropy** [BLR+02, GB01, GV15, HGR+12, JSMS12, LMC11, PGM+12, RFME+12, Sav64, Sha51a, Sha93-34, Szi64, WVB10, ABS11, BLR+01, CFR04, FMS03, FCW+00, GKL+13, GB00, GFD03, GPM06, HTR+08, Key05, Koc05, Let06, Lin07, LM03, MHBL12, Mat94, NS12, NS10, PP06, RAL+07, RM06, Ric03, RS06, RAL+08, SSK+05, Sen05, SK04, SS07, SBS+13, SGB02, SD06, Szi29, Szi76, TKL+12, WGB09, YN11, Zha09, dPV00, dTS+03].
**entropy-based** [CFRC04, WGB09]. **Entropy-TOPSIS** [JSMS12].
**Entstehung** [Hag79]. **Environmental** [YLR+10, JSMS12]. **Equation**
[Szi29]. **Equations** [Far03, FS43, Ale03, Far02]. **Ergebnisse**
[Szi64]. **Ergodic** [Sha48e]. **Error** [Sha56c, Sha56i, Sha93w, Sha93x, Sha93-36, Sha93-61, Sha59c, SGB67a, SGB67b, Wri67]. **error-correcting**
[Wri67]. **Errors** [Mar08]. **essential** [Gui03]. **Estimates** [Sav64]. **Estimating**
[Let06]. **Estimation** [BSWCM14]. **Europe** [FB69]. **evenness** [YLR+10, JSMS12].
**event** [dTS+03]. **event-related** [dTS+03]. **evidence** [Tho09]. **evolution**
[HGR+12]. **Exact** [Cro63]. **Exam** [NWV94]. **Exchange** [Sha50d, Sha93-28].
**expected** [ABS1]. **experiment** [YN11]. **Experimental**
[LCW+16, Sha41e, Sha93-46]. **Experimentally** [LHA]+16. **Expert**
[Bar01, NWV94]. **Explicit** [Sha53f]. **Exposition** [Sha53a, Sha53b, Sha93k].
**expression** [SGG04]. **extension** [BB88].

Factors [Nyd24]. **factory** [Ger12]. **Fair** [Pin01]. **Fallstudie** [Hag79]. **Fast**
[GV15]. **Father** [Ano98, Ano01a, Hor90, Sha02, Wal01b, Hor11]. **fear**
[NWV94]. **feature** [GPM06]. **features** [SSK+05, Sen05]. **February**
[Gal03, Jam09, Sha93y]. **Feedback** [Sha44c, Min02]. **female** [Di 00].
**Fibrillation** [LMC11, GKL+13]. **Fidelity** [Sha59b, Sha93i, Sha60]. **fields**
[GFD03, dR55]. **Fifty** [Ver98]. **filter** [CFRC04]. **Finders** [Sha41f, Sha93-50].
**Finding** [Bro11]. **Finds** [Bar01]. **Fine** [LB08]. **Fine-grained** [LB08]. **Finest**
[Min95]. **fingerprint** [WGB09]. **Finite** [SK04, YCS12]. **Fire** [BBS46].
**Fire-Control** [BBS46]. **First** [Bre63, Hor11, Ric03]. **Fisher**
[AALR09, AES17, HTR+08, Lin07, RD04, YCS12]. **Flaw** [Bar01]. **Flow**
[EFS56, EFS93, CSJJ10]. **flowmetry** [HTR+08]. **fluctuations** [RM06].
**fMRI** [dTS+03]. **foray** [Cro01]. **Forecaster** [Sha56e]. **forest** [BQhH08].
**Formal** [Som09]. **Formula** [BSWCM14, Sha50h]. **formulate** [Sch06].
**Foundational** [Tim02]. **foundations** [Ano01b, Ell09]. **Founder**
[Ano01c, Sch06]. **Four** [DS46, DS93]. **Four-Terminal** [DS46, DS93]. **Fourier**
[JGH00]. **Fourth** [Sha78]. **Fourth-Dimensional** [Sha78]. **Fractal**


Goodman [Cer17, Sil18, Doo18]. grained [LB08]. Graph [AL07, APMS+12, Cha72]. graze [dR55]. Great [Bel53, DM15, Far03, Lap96, Far02, Ger12, Pic08]. grooming [Di 00]. ground [Ene01]. ground-breaking [Ene01]. Grundlagen [SW76]. Gun [Zor89]. Gunfire [BBS46].


[Rif85]. **incontinence** [TKL+12]. **Increases** [Pin01]. **Increasing** [CS09].

**independent** [Rif85]. **Index** [JAS89, BQhH08, BKU+94, Di 00, Gor06, ID00, Key05, Lei07, Pla06, RS06, Siq98, SF03, WC99, Zha09]. **India** [JAS89].

**individual** [Pin01]. **indices** [Gor06]. **induced** [SBS+13]. **Industrial** [Hag79]. **Industrie** [Hag79]. **Industrie-** [Hag79]. **Industry** [Cer88, RFME+12]. **Inequalities** [KNS17]. **Inequality** [GV15]. **Inference** [Pla06, Wri67]. **Inferencia** [Pla06].

**induced** [SBS+13]. **Inform** [San05]. **informaci** [DL63]. **Information** [ACK+01, All04, Ano53, Ano98, Ano01a, Asp85, Bro00b, Cro63, DGH+06, DL63, Gal06, HWO90, Hor90, Lom05, Roc10, Roc11, Sav11, Sha49c, Sha50c, Sha52b, Sha53e, Sha56b, Sha58a, Sha59a, Sha63b, Sha68b, Sha93g, Sha93t, Sha93u, Sha93-49, Si18, SW93c, Som09, Str14, SG18, Tim02, WV8B10, Zee02, ABS+13, Ale03, Cer17, CHC+04, CHC+05, CCHL05, CLM+01, Ell09, Eme01, GWZC12, Gui03, Hor11, HSBJ02, HTR+08, JGH00, Lei07, Liu07, LHV16, LR05, LS10, Lyn77, MBD+03, Nah13, Rif85, RD04, SSAK06, Sch06, Sen05, SK04, Sle74, SG17, SJ04, SD96, Tho09, Tim03, YCS12, Col93, Roc10, Sha56d, Sha02, Som09, Roc11]. **Informationskonzepten** [Hag79]. **Informationstheorie** [SW76]. **Infrequent** [Sha54b, Sha93q]. **innovation** [Ger12]. **Input** [Sha55b, Sha93p]. **Institute** [Ano40a]. **Instructor** [Ano40b].

**integral** [SJ04]. **integrated** [JSMS12]. **Integration** [FS43, Sha50h].

**intellectual** [FB69]. **intelligence** [MMS06]. **Intelligent** [Szi64, Szi29, Szi76].

**intelligenter** [Szi29]. **interference** [Szi29, Szi76]. **Internal** [Sha54c, Sha93-58, Sha56h]. **International** [Pin01]. 

**interpolation** [Mar91, Mar93]. **Interpretation** [Lom05]. **interval** [MHBL12].

**intervention** [Szi64]. **Interview** [Pri82, TWA+87, Van89]. **Introduction** [Fel66, Mar91, TWA+87, Fel71, Fel09]. **Intuitive** [Roc99].

**invasive** [TKL+12]. **Invented** [Sil18, Ano01b, Cer17, SG17]. **Invests** [Pin01]. **Involvement** [Pin01]. **Ioan** [Tra10]. **Iran** [JSMS12]. **Irving** [TWA+87].

**ISBN** [Cer17]. **Italian** [SW71, SW83]. **Iterative** [WVB10].

**J** [Mur57]. **J.** [Wal01a]. **James** [Tra10]. **Jensen** [AALR09, MPPP97].

**Jimmy** [Cer17, Doo18, Sil18]. **John** [UKTS68, UKTS69]. **Juggler** [Hor90]. **Juggling** [Sha80, Sha82a, Sha93-44, SW93b].

**Kanal** [Sha57b]. **Kelly** [Sha56d]. **Key** [Sle74]. **Khan** [NWV94].

**kibernetike** [DL63]. **Kiss** [Sha93-43, Sha49e]. **Koehler** [YN11].

**Kommunikation** [Sha50f]. **Korean** [YLR+10]. **Kriegsforschung** [Hag79].

**kth** [Koc05]. **kth-order** [Koc05].

**Laboratory** [HS54, HS93, Sha93-42, Sha50]. **Labs** [Ger12, Min95]. **laid** [Ano01b, Eme01]. **Lakatos** [Sha49b, Sha93-59]. **L’Ambiguïté** [Loe59].

**Language** [Sav64]. **Large** [DS46, DS93, Mar08]. **Large-scale** [Mar08]. **laser** [HTR+08]. **Lattice** [Sha53e, Sha93u]. **Lattices** [Sha49e, Sha93-43].

**laws** [Sch91, ID00, Pic08]. **Leap** [Ano16]. **Learning** [Hig63, Sha14]. **Least**
MAC [Mar08]. Machine
[Ano16, Sha50b, Sha51c, SM53, Sha53g, Sha93h, Sha93y, Sha93-30, Sha93-35, Sha93-58, Sha14, Wal01a, LHA +16, Min02, Sha56h, Sha49d, Sha54c, Sha93-41].

Machines [Bre63, Sha42, Sha56f, Sha93r, Sha93-55, dLMSS54, dLMSS93, Bro00a, Sha55a, dLMSS56]. MADEIDA [TWA +87]. Made
[Wal01a, Eme01]. magnetic [GFD03]. making [Gui03]. Man
[Bre63, Pri84, Pri85]. Man-Machines [Bre63]. Mapping
[DGH +06, MBD +03]. Maps [Pin01]. Marker [DGH +06]. Markhoff
[Sha48g]. Markov [RFME +12, Roc05, PP06]. Markov-Shannon
[RFME +12]. Mars [Smi05]. Martin [ID00]. master [Eme01]. Mastermind
[Str14]. Masterpiece [Hor11]. matematica [SW71, SW83, SW81]. math
[Luc12]. Mathematical
[Ano00, CLM +01, Doo49, Roc99, Sha41d, Sha45a, Sha48b, Sha48c, SW49, SW63, SW71, SW75a, SW75c, SW76, SW83, Sha93-27, Sha97, SW98, Sha01, Wea53, Lyn77, SW64, SW69, SW72, SW75b, SW78, SW81]. Mathematician
[Bot88, Cro63, JAS89, PGM +12, Sha59a, GB01, ID00, Mat94, NS10, SSBK06]. measured [SSK +05]. Measurement [BLR +02, BLR +01]. measures [RS06]. measuring [dPV00]. mechanical [RAL +07]. Mechanics [Tim02, Tim03]. Mechanism [Sha41c, Sha41f, Sha41e, Sha93-50, Sha93-46]. medical [Rif85]. medium [Ano01b]. Meets [Efr08, SG18, NWV94]. Membership [Pin01]. Memory
[Bot88, Sha50d, Sha93-28]. Memoryless
[Sha93w, Sha93x, SGB67a, SGB67b]. message [Ano01b, Gui03]. metagenomes [ABS +13]. Method
[Cro63, Sha50c, Sha50e, Sha93-29, HSBJ02]. Methodology
[WVB10, JSMS12]. Methods [Sha46]. microspheres [SBS +13]. migration
Military [Hag79]. Mind
[Do08, Sha53g, Sha93-30, Cer17, SG17, Sil18]. Mind-Reading
[Sha53g, Sha93-30]. MInds [Bro00a, Pic08]. Minimize [Sha44d].
miscellaneous [SW93l]. Mixed [Sha45b]. Model [Efr08, De'12], models
[PP06, RFME+12]. Modern [Far03, Far02]. Modest [Sha78]. Modification
[WC99]. Modified [BSWC14, YLR+10]. Modulation [OS46, Sha43b].
module [Jan14]. Molecular [HWO90, GB00, GB01, LM03, RFME+12, SGB02].
molecules [Liu07]. momentum [AALR09, CS09, GWZC12], monotonicity [SS07].
mose [New56]. m¨oter [NWV94]. mouse [Zee02]. Moving [Sha50e, Sha93-29].
M.RI [LS10]. much [Eme01]. multidimensional [HN09]. multinomial
[De'12]. multiple [De'12, Rif85]. multiverse [Bro00a]. Must [Far03, Far02].
mutations [HGR+12]. Mutual [DGH+06, HSBJ02, Lei07, MBD+03].

Nachrichtentechnik [Hag79]. Naive [APMS+12]. Named [Pin01]. natural
[HGR+12]. Network [EFS56, EFS93, Sha48d, Sha93-31, Sha93-54, Sha49g].
Networks [DS46, DS93, RS93, ABS11, RFME+12, RS42].
Neuentwicklungen [Sha50f]. Neumann
[ABS11, Sha58c, Sha93-60, TWA+87, UKTS68, UKTS69]. Neural
RFME+12, YCS12]. News [Bar01]. No [Sha82a, SW93b]. No-Drop
[Sha82a, SW93b]. Noble [Ano40b]. Noise
[Bot88, Sha93j, Sha49a, Sha84a, Sha98b, Sha84b]. Noise-Like [Bot88].
Noisy [Sha48a, Sha56d, Sha56c, Sha56i, Sha93f, Sha93-61, Sha57a]. Non
[TKL+12, Rif85, WMS+12]. non-coding [WMS+12]. non-independent
[Rif85]. Non-invasive [TKL+12]. nonequilibrium [NS12]. noninvasive
RAL+07]. Nonlinear [TT12]. Nonoverlapping [Sha44d]. nonuniform
GWZC12]. Norbert [Sha49d, Sha93-41]. Normal [Sha48c]. normality
[Siq98]. Notation [Sha50a, Sha93-52]. Note
[EFS56, EFS93, Sha48f, Sha48g, Sha93-32, Sha58b, Sha84b]. Notes
[Gar49, Sha56d, Sha56c, SW93g, SW93h, SW93i]. novel [GB00].
Number [DS46, DS93, RS93, RS42, SJ04]. Numbers [Sha48f, Sha50a, Sha93-52].
Numerical [YN11]. Nyquist [Ano17, WBB+12].

Obituary [CS01]. objective [RAL+08]. Obtaining [Cro63]. Oh [Wei88].
on-line [HTR+08]. One [KNS17, Sha54b, Sha93q, GWZC12, Pri84, Pri85].
one-dimensional [GWZC12]. onf [Gal06]. Online [Bar01]. Operation
[Sha53j]. Operators [Sha41g]. opinion [ID00]. Optical [CSJJ10]. Optimal
[Sha93-36, Sha59c]. Optimization [WBB+12]. orbital [CS09]. order
[Koc05, Sha90]. Ordering [Sha93-32, Sha58b]. organization [RAL+08].
Origin [Yoc00]. Outfit [HS54, HS93]. Overdamped [Sha41a, Sha93c].

P.C.M. [OS44, OS93]. packets [HSBJ02]. Page [Ano93]. pages [MUr57].
Panel [HS46]. Papers
[Bro11, CMU+53, CMU+93, Lap96, Sle74, SW93k, DL63]. Parallel
Quantisitve \cite{AALR09}. Quantum \cite{Ano16, LHA+16, Tim02, Bro00a, LCW+16, POA+08, Tim03, ZBM11}. *quasispecies* \cite{HGR+12}. *quest* \cite{Bro00a}.

\textbf{R} \cite{Wal01a}, \textbf{Raboty} \cite{DL63}, \textbf{Ramsey} \cite{AL07}. \textbf{random} \cite{ABS11, WMS+12}. \textbf{Range} \cite{WVB10}, \textbf{Rao} \cite{RS06}. \textbf{Rate} \cite{BSWCM14, Sha41f, Sha55b, Sha55c, Sha93p, Sha93-38, Sha93-50}. \textbf{rats} \cite{SBS+13}. \textbf{Ray} \cite{PST48}. \textbf{reactions} \cite{SBS+13}. \textbf{Reading} \cite{Sha53g, Sha93-30}.

\textbf{R} \cite{Wal01a}, \textbf{Raboty} \cite{DL63}, \textbf{Ramsey} \cite{AL07}. \textbf{random} \cite{ABS11, WMS+12}. \textbf{R} \cite{Wal01a}, \textbf{Raboty} \cite{DL63}, \textbf{Ramsey} \cite{AL07}. \textbf{random} \cite{ABS11, WMS+12}. \textbf{R} \cite{Wal01a}, \textbf{Raboty} \cite{DL63}, \textbf{Ramsey} \cite{AL07}. \textbf{random} \cite{ABS11, WMS+12}.

\textbf{Recurrence} \cite{RAL+07, Let06}. \textbf{Reduction} \cite{LB08, PGM+12, Szi29, Szi76}. \textbf{Reed} \cite{TWA+87}. \textbf{Reflections} \cite{Luc12}.

\textbf{Realization} \cite{HDC96}. \textbf{Reconstruction} \cite{BERS86}. \textbf{Rectifier} \cite{Sha55e, Sha93-48}. \textbf{Rectifier} \cite{Sha55e, Sha93-48}.

\textbf{Reconstruction} \cite{BERS86}. \textbf{Rectifier} \cite{Sha55e, Sha93-48}.

\textbf{Realization} \cite{HDC96}. \textbf{Reconstruction} \cite{BERS86}. \textbf{Rectifier} \cite{Sha55e, Sha93-48}. \textbf{Rectifier} \cite{Sha55e, Sha93-48}.

\textbf{Reliability} \cite{Sha93-39}. \textbf{Reliable} \cite{Luc12}.

\textbf{Recognized} \cite{Pin01}.

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