

# Jianfeng Lu

## List of Publications by Year in descending order

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176  
papers

5,503  
citations

136950

32  
h-index

91884

69  
g-index

178  
all docs

178  
docs citations

178  
times ranked

5503  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synchrosqueezed wavelet transforms: An empirical mode decomposition-like tool. <i>Applied and Computational Harmonic Analysis</i> , 2011, 30, 243-261.	2.2	1,698
2	Phase Segregation Enhanced Ion Movement in Efficient Inorganic CsPbI <sub>2</sub> Br <sub>2</sub> Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700946.	19.5	318
3	Markov state models based on milestoning. <i>Journal of Chemical Physics</i> , 2011, 134, 204105.	3.0	184
4	SellInv—An Algorithm for Selected Inversion of a Sparse Symmetric Matrix. <i>ACM Transactions on Mathematical Software</i> , 2011, 37, 1-19.	2.9	167
5	Adaptive local basis set for Kohn–Sham density functional theory in a discontinuous Galerkin framework I: Total energy calculation. <i>Journal of Computational Physics</i> , 2012, 231, 2140-2154.	3.8	162
6	Interfacial benzenethiol modification facilitates charge transfer and improves stability of cm-sized metal halide perovskite solar cells with up to 20% efficiency. <i>Energy and Environmental Science</i> , 2018, 11, 1880-1889.	30.8	148
7	Diammonium and Monoammonium Mixed–Organic–Cation Perovskites for High Performance Solar Cells with Improved Stability. <i>Advanced Energy Materials</i> , 2017, 7, 1700444.	19.5	121
8	Solving parametric PDE problems with artificial neural networks. <i>European Journal of Applied Mathematics</i> , 2021, 32, 421-435.	2.9	109
9	Uniform accuracy of the quasicontinuum method. <i>Physical Review B</i> , 2006, 74, .	3.2	86
10	ELSI: A unified software interface for Kohn–Sham electronic structure solvers. <i>Computer Physics Communications</i> , 2018, 222, 267-285.	7.5	78
11	Solving for high-dimensional committor functions using artificial neural networks. <i>Research in Mathematical Sciences</i> , 2019, 6, 1.	1.0	76
12	Fast construction of hierarchical matrix representation from matrix–vector multiplication. <i>Journal of Computational Physics</i> , 2011, 230, 4071-4087.	3.8	72
13	Compression of the electron repulsion integral tensor in tensor hypercontraction format with cubic scaling cost. <i>Journal of Computational Physics</i> , 2015, 302, 329-335.	3.8	68
14	Light induced degradation in mixed-halide perovskites. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9326-9334.	5.5	67
15	Fast algorithm for extracting the diagonal of the inverse matrix with application to the electronic structure analysis of metallic systems. <i>Communications in Mathematical Sciences</i> , 2009, 7, 755-777.	1.0	59
16	Nonexistence of a Minimizer for Thomas–Fermi–Dirac–von Weizsäcker Model. <i>Communications on Pure and Applied Mathematics</i> , 2014, 67, 1605-1617.	3.1	57
17	A Variational Perspective on Cloaking by Anomalous Localized Resonance. <i>Communications in Mathematical Physics</i> , 2014, 328, 1-27.	2.2	55
18	Localized bases of eigensubspaces and operator compression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1273-1278.	7.1	52

#	ARTICLE	IF	CITATIONS
19	Printing strategies for scaling-up perovskite solar cells. National Science Review, 2021, 8, nwab075.	9.5	48
20	Pole-Based approximation of the Fermi-Dirac function. Chinese Annals of Mathematics Series B, 2009, 30, 729-742.	0.4	46
21	Fatigue stability of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> based perovskite solar cells in day/night cycling. Nano Energy, 2019, 58, 687-694.	16.0	46
22	Deep Network Approximation for Smooth Functions. SIAM Journal on Mathematical Analysis, 2021, 53, 5465-5506.	1.9	45
23	Solvent Engineering of a Dopant-Free Spiro-OMeTAD Hole-Transport Layer for Centimeter-Scale Perovskite Solar Cells with High Efficiency and Thermal Stability. ACS Applied Materials & Interfaces, 2020, 12, 8260-8270.	8.0	42
24	Excitation energies from particle-particle random phase approximation: Davidson algorithm and benchmark studies. Journal of Chemical Physics, 2014, 141, 124104.	3.0	40
25	Exact dynamical coarse-graining without time-scale separation. Journal of Chemical Physics, 2014, 141, 044109.	3.0	40
26	Solving high-dimensional eigenvalue problems using deep neural networks: A diffusion Monte Carlo like approach. Journal of Computational Physics, 2020, 423, 109792.	3.8	40
27	Quantitative Canvas Weave Analysis Using 2-D Synchrosqueezed Transforms: Application of time-frequency analysis to art investigation. IEEE Signal Processing Magazine, 2015, 32, 55-63.	5.6	36
28	Cubic scaling algorithms for RPA correlation using interpolative separable density fitting. Journal of Computational Physics, 2017, 351, 187-202.	3.8	36
29	A Fast Parallel Algorithm for Selected Inversion of Structured Sparse Matrices with Application to 2D Electronic Structure Calculations. SIAM Journal of Scientific Computing, 2011, 33, 1329-1351.	2.8	35
30	Reactive trajectories and the transition path process. Probability Theory and Related Fields, 2015, 161, 195-244.	1.8	33
31	Frozen Gaussian approximation for high frequency wave propagation. Communications in Mathematical Sciences, 2011, 9, 663-683.	1.0	33
32	Linear-scaling subspace-iteration algorithm with optimally localized nonorthogonal wave functions for Kohn-Sham density functional theory. Physical Review B, 2009, 79, .	3.2	32
33	Multiscale implementation of infinite-swap replica exchange molecular dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11744-11749.	7.1	32
34	Coordinate Descent Full Configuration Interaction. Journal of Chemical Theory and Computation, 2019, 15, 3558-3569.	5.3	31
35	Convergence of frozen Gaussian approximation for high-frequency wave propagation. Communications on Pure and Applied Mathematics, 2012, 65, 759-789.	3.1	29
36	Dislocation climb models from atomistic scheme to dislocation dynamics. Journal of the Mechanics and Physics of Solids, 2017, 99, 242-258.	4.8	29

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37	The impact of spiro-OMeTAD photodoping on the reversible light-induced transients of perovskite solar cells. <i>Nano Energy</i> , 2021, 82, 105658.	16.0	28
38	ELSI – An open infrastructure for electronic structure solvers. <i>Computer Physics Communications</i> , 2020, 256, 107459.	7.5	27
39	The Electronic Structure of Smoothly Deformed Crystals: Wannier Functions and the Cauchy–Born Rule. <i>Archive for Rational Mechanics and Analysis</i> , 2011, 199, 407-433.	2.4	26
40	Convergence of a Force-Based Hybrid Method in Three Dimensions. <i>Communications on Pure and Applied Mathematics</i> , 2013, 66, 83-108.	3.1	26
41	Oriented Attachment as the Mechanism for Microstructure Evolution in Chloride-Derived Hybrid Perovskite Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 39930-39939.	8.0	26
42	A Quasi-nonlocal Coupling Method for Nonlocal and Local Diffusion Models. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 1386-1404.	2.3	25
43	Scaling Limit of the Stein Variational Gradient Descent: The Mean Field Regime. <i>SIAM Journal on Mathematical Analysis</i> , 2019, 51, 648-671.	1.9	25
44	Analysis of Time Reversible Born-Oppenheimer Molecular Dynamics. <i>Entropy</i> , 2014, 16, 110-137.	2.2	24
45	Crystal Image Analysis Using 2D Synchrosqueezed Transforms. <i>Multiscale Modeling and Simulation</i> , 2015, 13, 1542-1572.	1.6	24
46	Multipole representation of the Fermi operator with application to the electronic structure analysis of metallic systems. <i>Physical Review B</i> , 2009, 79, .	3.2	23
47	Numerical methods for Kohn–Sham density functional theory. <i>Acta Numerica</i> , 2019, 28, 405-539.	10.7	23
48	Fractional Stochastic Differential Equations Satisfying Fluctuation-Dissipation Theorem. <i>Journal of Statistical Physics</i> , 2017, 169, 316-339.	1.2	21
49	Discontinuous Hamiltonian Monte Carlo for discrete parameters and discontinuous likelihoods. <i>Biometrika</i> , 2020, 107, 365-380.	2.4	21
50	Electronic structure of smoothly deformed crystals: Cauchy–Born rule for the nonlinear tight-binding model. <i>Communications on Pure and Applied Mathematics</i> , 2010, 63, 1432-1468.	3.1	20
51	Variational training of neural network approximations of solution maps for physical models. <i>Journal of Computational Physics</i> , 2020, 409, 109338.	3.8	20
52	Removal of Canvas Patterns in Digital Acquisitions of Paintings. <i>IEEE Transactions on Image Processing</i> , 2017, 26, 160-171.	9.8	19
53	Fisher information regularization schemes for Wasserstein gradient flows. <i>Journal of Computational Physics</i> , 2020, 416, 109449.	3.8	19
54	Frozen Gaussian Approximation for General Linear Strictly Hyperbolic Systems: Formulation and Eulerian Methods. <i>Multiscale Modeling and Simulation</i> , 2012, 10, 451-472.	1.6	18

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55	Path integral molecular dynamics with surface hopping for thermal equilibrium sampling of nonadiabatic systems. <i>Journal of Chemical Physics</i> , 2017, 146, 154110.	3.0	18
56	Neural-network quantum states for periodic systems in continuous space. <i>Physical Review Research</i> , 2022, 4, .	3.6	18
57	Infinite swapping replica exchange molecular dynamics leads to a simple simulation patch using mixture potentials. <i>Journal of Chemical Physics</i> , 2013, 138, 084105.	3.0	17
58	Microscopic origins of the crystallographically preferred growth in evaporation-induced colloidal crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	17
59	A sub-linear scaling algorithm for computing the electronic structure of materials. <i>Communications in Mathematical Sciences</i> , 2007, 5, 999-1026.	1.0	17
60	Diffusion approximations and domain decomposition method of linear transport equations: Asymptotics and numerics. <i>Journal of Computational Physics</i> , 2015, 292, 141-167.	3.8	16
61	CoordinateWise Descent Methods for Leading Eigenvalue Problem. <i>SIAM Journal of Scientific Computing</i> , 2019, 41, A2681-A2716.	2.8	16
62	Self-Enhancement of Efficiency and Self-Attenuation of Hysteretic Behavior of Perovskite Solar Cells with Aging. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2792-2799.	4.6	16
63	Thermodynamic Limit of Crystal Defects with Finite Temperature Tight Binding. <i>Archive for Rational Mechanics and Analysis</i> , 2018, 230, 701-733.	2.4	15
64	Multiscale modeling. <i>Scholarpedia Journal</i> , 2011, 6, 11527.	0.3	15
65	Convergence of Phase-Field Free Energy and Boundary Force for Molecular Solvation. <i>Archive for Rational Mechanics and Analysis</i> , 2018, 227, 105-147.	2.4	14
66	A stochastic version of Stein variational gradient descent for efficient sampling. <i>Communications in Applied Mathematics and Computational Science</i> , 2020, 15, 37-63.	1.8	14
67	Actor-Critic Method for High Dimensional Static Hamilton–Jacobi–Bellman Partial Differential Equations based on Neural Networks. <i>SIAM Journal of Scientific Computing</i> , 2021, 43, A4043-A4066.	2.8	14
68	Validity and Regularization of Classical Half-Space Equations. <i>Journal of Statistical Physics</i> , 2017, 166, 398-433.	1.2	13
69	Trigonometric integrators for quasilinear wave equations. <i>Mathematics of Computation</i> , 2018, 88, 717-749.	2.1	13
70	Point Cloud Discretization of Fokker–Planck Operators for Committed Functions. <i>Multiscale Modeling and Simulation</i> , 2018, 16, 710-726.	1.6	13
71	The Kohn-Sham equation for deformed crystals. <i>Memoirs of the American Mathematical Society</i> , 2012, 221, 1.	0.9	13
72	Fast algorithm for periodic density fitting for Bloch waves. <i>Annals of Mathematical Sciences and Applications</i> , 2016, 1, 321-339.	0.4	13

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73	Orbital-Free Density Functional Theory of Out-of-Plane Charge Screening in Graphene. <i>Journal of Nonlinear Science</i> , 2015, 25, 1391-1430.	2.1	12
74	Half-space kinetic equations with general boundary conditions. <i>Mathematics of Computation</i> , 2016, 86, 1269-1301.	2.1	12
75	Combining 2D synchrosqueezed wave packet transform with optimization for crystal image analysis. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 89, 194-210.	4.8	12
76	Weak Solution of a Continuum Model For Vicinal Surface in The Attachment-Detachment-Limited Regime. <i>SIAM Journal on Mathematical Analysis</i> , 2017, 49, 1705-1731.	1.9	12
77	Frozen Gaussian approximation with surface hopping for mixed quantum-classical dynamics: A mathematical justification of fewest switches surface hopping algorithms. <i>Mathematics of Computation</i> , 2017, 87, 2189-2232.	2.1	12
78	Seamless multiscale modeling via dynamics on fiber bundles. <i>Communications in Mathematical Sciences</i> , 2007, 5, 649-663.	1.0	12
79	Improved sampling and validation of frozen Gaussian approximation with surface hopping algorithm for nonadiabatic dynamics. <i>Journal of Chemical Physics</i> , 2016, 145, 124109.	3.0	11
80	Detecting localized eigenstates of linear operators. <i>Research in Mathematical Sciences</i> , 2018, 5, 1.	1.0	11
81	Inchworm Monte Carlo Method for Open Quantum Systems. <i>Communications on Pure and Applied Mathematics</i> , 2020, 73, 2430-2472.	3.1	11
82	Randomized Sampling for Basis Function Construction in Generalized Finite Element Methods. <i>Multiscale Modeling and Simulation</i> , 2020, 18, 1153-1177.	1.6	11
83	Wavepackets in inhomogeneous periodic media: Effective particle-field dynamics and Berry curvature. <i>Journal of Mathematical Physics</i> , 2017, 58, 021503.	1.1	10
84	Continuum Limit of a Mesoscopic Model with Elasticity of Step Motion on Vicinal Surfaces. <i>Journal of Nonlinear Science</i> , 2017, 27, 873-926.	2.1	10
85	A convergent method for linear half-space kinetic equations. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017, 51, 1583-1615.	1.9	10
86	The simulated tempering method in the infinite switch limit with adaptive weight learning. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 013207.	2.3	10
87	Random Sampling and Efficient Algorithms for Multiscale PDEs. <i>SIAM Journal of Scientific Computing</i> , 2020, 42, A2974-A3005.	2.8	10
88	Optimized local basis set for Kohn-Sham density functional theory. <i>Journal of Computational Physics</i> , 2012, 231, 4515-4529.	3.8	9
89	Asymmetry in crystal facet dynamics of homoepitaxy by a continuum model. <i>Physica D: Nonlinear Phenomena</i> , 2019, 393, 54-67.	2.8	9
90	Learning interacting particle systems: Diffusion parameter estimation for aggregation equations. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019, 29, 1-29.	3.3	9



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109	Efficient Construction of Tensor Ring Representations from Sampling. Multiscale Modeling and Simulation, 2021, 19, 1261-1284.	1.6	7
110	Inclusion–exclusion principle for open quantum systems with bosonic bath. New Journal of Physics, 2021, 23, 063049.	2.9	7
111	Strang splitting methods for a quasilinear Schrödinger equation: convergence, instability, and dynamics. Communications in Mathematical Sciences, 2015, 13, 1051-1074.	1.0	7
112	Analysis of a continuum theory for broken bond crystal surface models with evaporation and deposition effects. Nonlinearity, 2020, 33, 3816-3845.	1.4	7
113	Effective Maxwell equations from time-dependent density functional theory. Acta Mathematica Sinica, English Series, 2011, 27, 339-368.	0.6	6
114	Tensor Ring Decomposition: Optimization Landscape and One-loop Convergence of Alternating Least Squares. SIAM Journal on Matrix Analysis and Applications, 2020, 41, 1416-1442.	1.4	6
115	A priori generalization error analysis of two-layer neural networks for solving high dimensional Schrödinger eigenvalue problems. Communications of the American Mathematical Society, 2022, 2, 1-21.	2.2	6
116	Thermalization of oscillator chains with onsite anharmonicity and comparison with kinetic theory. Physical Review E, 2016, 94, 062104.	2.1	5
117	Localized density matrix minimization and linear-scaling algorithms. Journal of Computational Physics, 2016, 315, 194-210.	3.8	5
118	Decay estimates of discretized Green's functions for Schrödinger type operators. Science China Mathematics, 2016, 59, 1561-1578.	1.7	5
119	Analysis of the divide-and-conquer method for electronic structure calculations. Mathematics of Computation, 2016, 85, 2919-2938.	2.1	5
120	On extending Kohn-Sham density functionals to systems with fractional number of electrons. Journal of Chemical Physics, 2017, 146, 214109.	3.0	5
121	A cubic scaling algorithm for excited states calculations in particle–particle random phase approximation. Journal of Computational Physics, 2017, 340, 297-308.	3.8	5
122	Lindblad equation and its semiclassical limit of the Anderson-Holstein model. Journal of Mathematical Physics, 2017, 58, .	1.1	5
123	Phase-Space Sketching for Crystal Image Analysis Based on Synchrosqueezed Transforms. SIAM Journal on Imaging Sciences, 2018, 11, 1954-1978.	2.2	5
124	Accelerated sampling by infinite swapping of path integral molecular dynamics with surface hopping. Journal of Chemical Physics, 2018, 148, 064110.	3.0	5
125	Fundamental Limitations for Measurements in Quantum Many-Body Systems. Physical Review Letters, 2018, 121, 080406.	7.8	5
126	The Full Configuration Interaction Quantum Monte Carlo Method through the Lens of Inexact Power Iteration. SIAM Journal of Scientific Computing, 2020, 42, B1-B29.	2.8	5



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127	A Low-Rank Schwarz Method for Radiative Transfer Equation With Heterogeneous Scattering Coefficient. Multiscale Modeling and Simulation, 2021, 19, 775-801.	1.6	5
128	Computing Edge States without Hard Truncation. SIAM Journal of Scientific Computing, 2021, 43, B323-B353.	2.8	5
129	Iterated projected position algorithm for constructing exponentially localized generalized Wannier functions for periodic and nonperiodic insulators in two dimensions and higher. Physical Review B, 2021, 103, .	3.2	5
130	Stable phase retrieval from locally stable and conditionally connected measurements. Applied and Computational Harmonic Analysis, 2021, 55, 440-465.	2.2	5
131	Seismic modeling using the frozen Gaussian approximation. , 2013, , .		5
132	Classification of whale vocalizations using the Weyl transform. , 2015, , .		4
133	A Mathematical Theory of Optimal Milestoning (with a Detour via Exact Milestoning). Communications on Pure and Applied Mathematics, 2018, 71, 1149-1177.	3.1	4
134	Gradient flow structure and exponential decay of the sandwiched Rényi divergence for primitive Lindblad equations with GNS-detailed balance. Journal of Mathematical Physics, 2019, 60, .	1.1	4
135	Quadrature Points via Heat Kernel Repulsion. Constructive Approximation, 2020, 51, 27-48.	3.0	4
136	Stochastic modified equations for the asynchronous stochastic gradient descent. Information and Inference, 2020, 9, 851-873.	1.6	4
137	Dirac Operators and Domain Walls. SIAM Journal on Mathematical Analysis, 2020, 52, 1115-1145.	1.9	4
138	Complexity of randomized algorithms for underdamped Langevin dynamics. Communications in Mathematical Sciences, 2021, 19, 1827-1853.	1.0	4
139	PEXSI- $\Sigma$ : a Green's function embedding method for Kohn-Sham density functional theory. Annals of Mathematical Sciences and Applications, 2018, 3, 441-472.	0.4	4
140	Existence and Computation of Generalized Wannier Functions for Non-Periodic Systems in Two Dimensions and Higher. Archive for Rational Mechanics and Analysis, 2022, 243, 1269-1323.	2.4	4
141	Universal approximation of symmetric and anti-symmetric functions. Communications in Mathematical Sciences, 2022, 20, 1397-1408.	1.0	4
142	Fast algorithms of bath calculations in simulations of quantum system-bath dynamics. Computer Physics Communications, 2022, 278, 108417.	7.5	4
143	Traction boundary conditions for molecular static simulations. Computer Methods in Applied Mechanics and Engineering, 2016, 308, 310-329.	6.6	3
144	An Asymptotic Preserving Method for Transport Equations with Oscillatory Scattering Coefficients. Multiscale Modeling and Simulation, 2017, 15, 1694-1718.	1.6	3

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145	Analysis of Multiscale Integrators for Multiple Attractors and Irreversible Langevin Samplers. Multiscale Modeling and Simulation, 2018, 16, 1859-1883.	1.6	3
146	A Diabatic Surface Hopping Algorithm Based on Time Dependent Perturbation Theory and Semiclassical Analysis. Multiscale Modeling and Simulation, 2018, 16, 1603-1622.	1.6	3
147	Stochastic dynamical low-rank approximation method. Journal of Computational Physics, 2018, 372, 564-586.	3.8	3
148	A Concurrent Global-Local Numerical Method for Multiscale PDEs. Journal of Scientific Computing, 2018, 76, 1188-1215.	2.3	3
149	Methodological and Computational Aspects of Parallel Tempering Methods in the Infinite Swapping Limit. Journal of Statistical Physics, 2019, 174, 715-733.	1.2	3
150	Convergence of stochastic-extended Lagrangian molecular dynamics method for polarizable force field simulation. Journal of Computational Physics, 2021, 438, 110338.	3.8	3
151	Analysis of a fourth-order exponential PDE arising from a crystal surface jump process with Metropolis-type transition rates. Pure and Applied Analysis, 2021, 3, 595-612.	1.1	3
152	Stability and the continuum limit of the spin-polarized Thomas-Fermi-Dirac-von Weizsäcker model. Journal of Mathematical Physics, 2012, 53, .	1.1	2
153	Sparsifying preconditioner for soliton calculations. Journal of Computational Physics, 2016, 315, 458-466.	3.8	2
154	A Quantum Kinetic Monte Carlo Method for Quantum Many-Body Spin Dynamics. SIAM Journal of Scientific Computing, 2018, 40, B706-B722.	2.8	2
155	Moderate deviation for random elliptic PDE with small noise. Annals of Applied Probability, 2018, 28, .	1.3	2
156	A numerical method for coupling the BGK model and Euler equations through the linearized Knudsen layer. Journal of Computational Physics, 2019, 398, 108893.	3.8	2
157	Stop Memorizing: A Data-Dependent Regularization Framework for Intrinsic Pattern Learning. SIAM Journal on Mathematics of Data Science, 2019, 1, 476-496.	1.8	2
158	The continuum limit and QM-continuum approximation of quantum mechanical models of solids. Communications in Mathematical Sciences, 2007, 5, 679-696.	1.0	2
159	Butterfly-Net: Optimal Function Representation Based on Convolutional Neural Networks. Communications in Computational Physics, 2020, 28, 1838-1885.	1.7	2
160	Estimating normalizing constants for log-concave distributions: algorithms and lower bounds. , 2020, , .		2
161	Defect Resonances of Truncated Crystal Structures. SIAM Journal on Applied Mathematics, 2022, 82, 49-74.	1.8	2
162	Fast Localization of Eigenfunctions via Smoothed Potentials. Journal of Scientific Computing, 2022, 90, 1.	2.3	2

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163	Numerical scheme for a spatially inhomogeneous matrix-valued quantum Boltzmann equation. <i>Journal of Computational Physics</i> , 2015, 291, 303-316.	3.8	1
164	A variation on the Donsker–Varadhan inequality for the principal eigenvalue. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20160877.	2.1	1
165	A Surface Hopping Gaussian Beam Method for High-Dimensional Transport Systems. <i>SIAM Journal of Scientific Computing</i> , 2018, 40, B1277-B1301.	2.8	1
166	Frozen Gaussian approximation for high frequency wave propagation in periodic media. <i>Asymptotic Analysis</i> , 2018, 110, 113-135.	0.5	1
167	Bold diagrammatic Monte Carlo in the lens of stochastic iterative methods. <i>Transactions of Mathematics and Its Applications</i> , 2019, 3, .	3.3	1
168	Continuum limit and preconditioned Langevin sampling of the path integral molecular dynamics. <i>Journal of Computational Physics</i> , 2020, 423, 109788.	3.8	1
169	Optimal Trapping for Brownian Motion: a Nonlinear Analogue of the Torsion Function. <i>Potential Analysis</i> , 2021, 54, 687-698.	0.9	1
170	Numerical methods for stochastic differential equations based on Gaussian mixture. <i>Communications in Mathematical Sciences</i> , 2021, 19, 1549-1577.	1.0	1
171	Optimal Artificial Boundary Condition for Random Elliptic Media. <i>Foundations of Computational Mathematics</i> , 2021, 21, 1643-1702.	2.5	1
172	A grid-free approach for simulating sweep and cyclic voltammetry. <i>Journal of Chemical Physics</i> , 2021, 154, 161101.	3.0	1
173	Tensorization of the strong data processing inequality for quantum chi-square divergences. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 3, 199.	0.0	1
174	On explicit L2-convergence rate estimate for piecewise deterministic Markov processes in MCMC algorithms. <i>Annals of Applied Probability</i> , 2022, 32, .	1.3	1
175	Complexity of zigzag sampling algorithm for strongly log-concave distributions. <i>Statistics and Computing</i> , 2022, 32, .	1.5	1
176	Mathematical theory of solids: From quantum mechanics to continuum models. <i>Discrete and Continuous Dynamical Systems</i> , 2014, 34, 5085-5097.	0.9	0