

# Qiang Du

## List of Publications by Year in descending order

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294  
papers

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299  
docs citations

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times ranked

5561  
citing authors

#	ARTICLE	IF	CITATIONS
1	Centroidal Voronoi Tessellations: Applications and Algorithms. <i>SIAM Review</i> , 1999, 41, 637-676.	8.4	1,639
2	Analysis and Approximation of Nonlocal Diffusion Problems with Volume Constraints. <i>SIAM Review</i> , 2012, 54, 667-696.	8.4	413
3	Analysis and Approximation of the Ginzburg-Landau Model of Superconductivity. <i>SIAM Review</i> , 1992, 34, 54-81.	8.4	359
4	Computing the Ground State Solution of Bose-Einstein Condensates by a Normalized Gradient Flow. <i>SIAM Journal of Scientific Computing</i> , 2004, 25, 1674-1697.	2.8	316
5	A NONLOCAL VECTOR CALCULUS, NONLOCAL VOLUME-CONSTRAINED PROBLEMS, AND NONLOCAL BALANCE LAWS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2013, 23, 493-540.	3.3	316
6	A phase field approach in the numerical study of the elastic bending energy for vesicle membranes. <i>Journal of Computational Physics</i> , 2004, 198, 450-468.	3.8	308
7	Convergence of the Lloyd Algorithm for Computing Centroidal Voronoi Tessellations. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 102-119.	2.3	224
8	Numerical Analysis of a Continuum Model of Phase Transition. <i>SIAM Journal on Numerical Analysis</i> , 1991, 28, 1310-1322.	2.3	216
9	Simulating the deformation of vesicle membranes under elastic bending energy in three dimensions. <i>Journal of Computational Physics</i> , 2006, 212, 757-777.	3.8	207
10	Constrained Centroidal Voronoi Tessellations for Surfaces. <i>SIAM Journal of Scientific Computing</i> , 2003, 24, 1488-1506.	2.8	193
11	Mathematical and Numerical Analysis of Linear Peridynamic Models with Nonlocal Boundary Conditions. <i>SIAM Journal on Numerical Analysis</i> , 2010, 48, 1759-1780.	2.3	175
12	A finite difference domain decomposition algorithm for numerical solution of the heat equation. <i>Mathematics of Computation</i> , 1991, 57, 63-63.	2.1	171
13	Finite Element Methods with Matching and Nonmatching Meshes for Maxwell Equations with Discontinuous Coefficients. <i>SIAM Journal on Numerical Analysis</i> , 2000, 37, 1542-1570.	2.3	151
14	Analysis and Comparison of Different Approximations to Nonlocal Diffusion and Linear Peridynamic Equations. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 3458-3482.	2.3	148
15	Tetrahedral mesh generation and optimization based on centroidal Voronoi tessellations. <i>International Journal for Numerical Methods in Engineering</i> , 2003, 56, 1355-1373.	2.8	142
16	Maximum Principle Preserving Exponential Time Differencing Schemes for the Nonlocal Allen-Cahn Equation. <i>SIAM Journal on Numerical Analysis</i> , 2019, 57, 875-898.	2.3	141
17	Modelling and simulations of multi-component lipid membranes and open membranes via diffuse interface approaches. <i>Journal of Mathematical Biology</i> , 2007, 56, 347-371.	1.9	140
18	Asymptotically Compatible Schemes and Applications to Robust Discretization of Nonlocal Models. <i>SIAM Journal on Numerical Analysis</i> , 2014, 52, 1641-1665.	2.3	139

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19	Probabilistic methods for centroidal Voronoi tessellations and their parallel implementations. <i>Parallel Computing</i> , 2002, 28, 1477-1500.	2.1	135
20	Grid generation and optimization based on centroidal Voronoi tessellations. <i>Applied Mathematics and Computation</i> , 2002, 133, 591-607.	2.2	134
21	A phase field formulation of the Willmore problem. <i>Nonlinearity</i> , 2005, 18, 1249-1267.	1.4	125
22	Analysis of a linear fluid-structure interaction problem. <i>Discrete and Continuous Dynamical Systems</i> , 2003, 9, 633-650.	0.9	119
23	Anisotropic Centroidal Voronoi Tessellations and Their Applications. <i>SIAM Journal of Scientific Computing</i> , 2005, 26, 737-761.	2.8	117
24	Global existence and uniqueness of solutions of the time-dependent ginzburg-landau model for superconductivity. <i>Applicable Analysis</i> , 1994, 53, 1-17.	1.3	116
25	Vortices in a rotating Bose-Einstein condensate: Critical angular velocities and energy diagrams in the Thomas-Fermi regime. <i>Physical Review A</i> , 2001, 64, .	2.5	114
26	Maximum Bound Principles for a Class of Semilinear Parabolic Equations and Exponential Time-Differencing Schemes. <i>SIAM Review</i> , 2021, 63, 317-359.	8.4	107
27	Numerical Approximation of Some Linear Stochastic Partial Differential Equations Driven by Special Additive Noises. <i>SIAM Journal on Numerical Analysis</i> , 2002, 40, 1421-1445.	2.3	101
28	Numerical methods for nonlocal and fractional models. <i>Acta Numerica</i> , 2020, 29, 1-124.	10.7	101
29	Mathematical analysis for the peridynamic nonlocal continuum theory. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2011, 45, 217-234.	1.9	100
30	Nonlocal Constrained Value Problems for a Linear Peridynamic Navier Equation. <i>Journal of Elasticity</i> , 2014, 116, 27-51.	1.9	91
31	Analysis of the Volume-Constrained Peridynamic Navier Equation of Linear Elasticity. <i>Journal of Elasticity</i> , 2013, 113, 193-217.	1.9	90
32	Numerical Studies of Discrete Approximations to the Allen-Cahn Equation in the Sharp Interface Limit. <i>SIAM Journal of Scientific Computing</i> , 2009, 31, 3042-3063.	2.8	89
33	Dynamics of Rotating Bose-Einstein Condensates and its Efficient and Accurate Numerical Computation. <i>SIAM Journal on Applied Mathematics</i> , 2006, 66, 758-786.	1.8	83
34	Ginzburg-Landau Vortices: Dynamics, Pinning, and Hysteresis. <i>SIAM Journal on Mathematical Analysis</i> , 1997, 28, 1265-1293.	1.9	82
35	Analysis and Applications of the Exponential Time Differencing Schemes and Their Contour Integration Modifications. <i>BIT Numerical Mathematics</i> , 2005, 45, 307-328.	2.0	82
36	Fractional Diffusion on Bounded Domains. <i>Fractional Calculus and Applied Analysis</i> , 2015, 18, 342-360.	2.2	82

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37	Recent progress in robust and quality Delaunay mesh generation. <i>Journal of Computational and Applied Mathematics</i> , 2006, 195, 8-23.	2.0	80
38	Advances in Studies and Applications of Centroidal Voronoi Tessellations. <i>Numerical Mathematics</i> , 2010, 3, 119-142.	1.3	80
39	The bond-based peridynamic system with Dirichlet-type volume constraint. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2014, 144, 161-186.	1.2	77
40	Analysis of a Ladyzhenskaya model for incompressible viscous flow. <i>Journal of Mathematical Analysis and Applications</i> , 1991, 155, 21-45.	1.0	75
41	Fast Explicit Integration Factor Methods for Semilinear Parabolic Equations. <i>Journal of Scientific Computing</i> , 2015, 62, 431-455.	2.3	74
42	Finite element methods for the time-dependent Ginzburg-Landau model of superconductivity. <i>Computers and Mathematics With Applications</i> , 1994, 27, 119-133.	2.7	73
43	Stabilized linear semi-implicit schemes for the nonlocal Cahn-Hilliard equation. <i>Journal of Computational Physics</i> , 2018, 363, 39-54.	3.8	73
44	A Reinforced Topic-Aware Convolutional Sequence-to-Sequence Model for Abstractive Text Summarization. , 2018, , .		73
45	Spectral implementation of an adaptive moving mesh method for phase-field equations. <i>Journal of Computational Physics</i> , 2006, 220, 498-510.	3.8	72
46	Computational simulation of type-II superconductivity including pinning phenomena. <i>Physical Review B</i> , 1995, 51, 16194-16203.	3.2	68
47	Morphology of Critical Nuclei in Solid-State Phase Transformations. <i>Physical Review Letters</i> , 2007, 98, 265703.	7.8	67
48	An iterative-perturbation scheme for treating inhomogeneous elasticity in phase-field models. <i>Journal of Computational Physics</i> , 2005, 208, 34-50.	3.8	65
49	Energetic variational approaches in modeling vesicle and fluid interactions. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 923-930.	2.8	65
50	A model for variable thickness superconducting thin films. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 1996, 47, 410-431.	1.4	64
51	Voronoi-based finite volume methods, optimal Voronoi meshes, and PDEs on the sphere. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003, 192, 3933-3957.	6.6	63
52	A New Approach for a Nonlocal, Nonlinear Conservation Law. <i>SIAM Journal on Applied Mathematics</i> , 2012, 72, 464-487.	1.8	62
53	Centroidal Voronoi Tessellation Algorithms for Image Compression, Segmentation, and Multichannel Restoration. <i>Journal of Mathematical Imaging and Vision</i> , 2006, 24, 177-194.	1.3	61
54	Retrieving Topological Information for Phase Field Models. <i>SIAM Journal on Applied Mathematics</i> , 2005, 65, 1913-1932.	1.8	60

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55	Adaptive Finite Element Method for a Phase Field Bending Elasticity Model of Vesicle Membrane Deformations. <i>SIAM Journal of Scientific Computing</i> , 2008, 30, 1634-1657.	2.8	60
56	Numerical approximations of the Ginzburg-Landau models for superconductivity. <i>Journal of Mathematical Physics</i> , 2005, 46, 095109.	1.1	59
57	Analysis of a phase field Navier-Stokes vesicle-fluid interaction model. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2007, 8, 539-556.	0.9	59
58	Analysis of a scalar nonlocal peridynamic model with a sign changing kernel. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2013, 18, 1415-1437.	0.9	59
59	A Ginzburg-Landau type model of superconducting/normal junctions including Josephson junctions. <i>European Journal of Applied Mathematics</i> , 1995, 6, 97-114.	2.9	58
60	On the variational limit of a class of nonlocal functionals related to peridynamics. <i>Nonlinearity</i> , 2015, 28, 3999-4035.	1.4	57
61	New Error Bounds for Deep ReLU Networks Using Sparse Grids. <i>SIAM Journal on Mathematics of Data Science</i> , 2019, 1, 78-92.	1.8	57
62	FENE Dumbbell Model and Its Several Linear and Nonlinear Closure Approximations. <i>Multiscale Modeling and Simulation</i> , 2005, 4, 709-731.	1.6	56
63	A posteriori error analysis of finite element method for linear nonlocal diffusion and peridynamic models. <i>Mathematics of Computation</i> , 2013, 82, 1889-1922.	2.1	56
64	Computational studies of coarsening rates for the Cahn-Hilliard equation with phase-dependent diffusion mobility. <i>Journal of Computational Physics</i> , 2016, 310, 85-108.	3.8	55
65	Finite-Element Approximations of a Ladyzhenskaya Model for Stationary Incompressible Viscous Flow. <i>SIAM Journal on Numerical Analysis</i> , 1990, 27, 1-19.	2.3	54
66	Efficient Parallel Algorithms for Parabolic Problems. <i>SIAM Journal on Numerical Analysis</i> , 2002, 39, 1469-1487.	2.3	54
67	Adhesion of vesicles to curved substrates. <i>Physical Review E</i> , 2008, 77, 011907.	2.1	53
68	Fast and accurate algorithms for simulating coarsening dynamics of Cahn-Hilliard equations. <i>Computational Materials Science</i> , 2015, 108, 272-282.	3.0	53
69	Efficient and stable exponential time differencing Runge-Kutta methods for phase field elastic bending energy models. <i>Journal of Computational Physics</i> , 2016, 316, 21-38.	3.8	53
70	Modeling the spontaneous curvature effects in static cell membrane deformations by a phase field formulation. <i>Communications on Pure and Applied Analysis</i> , 2005, 4, 537-548.	0.8	53
71	Convergence Analysis of a Finite Volume Method for Maxwell's Equations in Nonhomogeneous Media. <i>SIAM Journal on Numerical Analysis</i> , 2003, 41, 37-63.	2.3	52
72	Spectral viscosity approximations to multidimensional scalar conservation laws. <i>Mathematics of Computation</i> , 1993, 61, 629-643.	2.1	52

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73	Time-Fractional Allen-Cahn Equations: Analysis and Numerical Methods. <i>Journal of Scientific Computing</i> , 2020, 85, 1.	2.3	49
74	Acceleration schemes for computing centroidal Voronoi tessellations. <i>Numerical Linear Algebra With Applications</i> , 2006, 13, 173-192.	1.6	48
75	Shrinking Dimer Dynamics and Its Applications to Saddle Point Search. <i>SIAM Journal on Numerical Analysis</i> , 2012, 50, 1899-1921.	2.3	48
76	The optimal centroidal Voronoi tessellations and the gersh'o's conjecture in the three-dimensional space. <i>Computers and Mathematics With Applications</i> , 2005, 49, 1355-1373.	2.7	47
77	Finite element approximation of the Cahn-Hilliard equation on surfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 2458-2470.	6.6	47
78	Weak Solutions for the Cahn-Hilliard Equation with Degenerate Mobility. <i>Archive for Rational Mechanics and Analysis</i> , 2016, 219, 1161-1184.	2.4	47
79	Using a machine learning approach to determine the space group of a structure from the atomic pair distribution function. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, 633-643.	0.1	47
80	An integrated framework for multi-scale materials simulation and design. <i>Journal of Computer-Aided Materials Design</i> , 2004, 11, 183-199.	0.7	46
81	Asymptotically Compatible Fourier Spectral Approximations of Nonlocal Allen-Cahn Equations. <i>SIAM Journal on Numerical Analysis</i> , 2016, 54, 1899-1919.	2.3	46
82	Meshfree, probabilistic determination of point sets and support regions for meshless computing. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2002, 191, 1349-1366.	6.6	45
83	Nonlocal Convection-Diffusion Problems on Bounded Domains and Finite-Range Jump Processes. <i>Computational Methods in Applied Mathematics</i> , 2017, 17, 707-722.	0.8	44
84	High-Kappa Limits of the Time-Dependent Ginzburg-Landau Model. <i>SIAM Journal on Applied Mathematics</i> , 1996, 56, 1060-1093.	1.8	43
85	A model for superconducting thin films having variable thickness. <i>Physica D: Nonlinear Phenomena</i> , 1993, 69, 215-231.	2.8	42
86	A cooperative game for automated learning of elasto-plasticity knowledge graphs and models with AI-guided experimentation. <i>Computational Mechanics</i> , 2019, 64, 467-499.	4.0	42
87	Dissipative Flow and Vortex Shedding in the Painlevé Boundary Layer of a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2003, 91, 090407.	7.8	41
88	A Convergent Adaptive Finite Element Algorithm for Nonlocal Diffusion and Peridynamic Models. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 1211-1234.	2.3	41
89	Constrained boundary recovery for three dimensional Delaunay triangulations. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 61, 1471-1500.	2.8	40
90	On Mesh Geometry and Stiffness Matrix Conditioning for General Finite Element Spaces. <i>SIAM Journal on Numerical Analysis</i> , 2009, 47, 1421-1444.	2.3	40

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91	The phase field method for geometric moving interfaces and their numerical approximations. Handbook of Numerical Analysis, 2020, 21, 425-508.	1.8	39
92	High order approximation of the Frobenius-Perron operator. Applied Mathematics and Computation, 1993, 53, 151-171.	2.2	38
93	Coarsening Mechanism for Systems Governed by the Cahn-Hilliard Equation with Degenerate Diffusion Mobility. Multiscale Modeling and Simulation, 2014, 12, 1870-1889.	1.6	38
94	A phase field model for vesicle-substrate adhesion. Journal of Computational Physics, 2009, 228, 7837-7849.	3.8	37
95	Numerical Solution of a Two-Dimensional Nonlocal Wave Equation on Unbounded Domains. SIAM Journal of Scientific Computing, 2018, 40, A1430-A1445.	2.8	37
96	Nonlocal convection-diffusion volume-constrained problems and jump processes. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 373-389.	0.9	37
97	Motion of Interfaces Governed by the Cahn-Hilliard Equation with Highly Disparate Diffusion Mobility. SIAM Journal on Applied Mathematics, 2012, 72, 1818-1841.	1.8	36
98	Recent developments in computational modelling of nucleation in phase transformations. Npj Computational Materials, 2016, 2, .	8.7	36
99	Robust modeling of constant mean curvature surfaces. ACM Transactions on Graphics, 2012, 31, 1-11.	7.2	35
100	Characterization of function spaces of vector fields and an application in nonlinear peridynamics. Nonlinear Analysis: Theory, Methods & Applications, 2016, 140, 82-111.	1.1	35
101	A conservative nonlocal convection-diffusion model and asymptotically compatible finite difference discretization. Computer Methods in Applied Mechanics and Engineering, 2017, 320, 46-67.	6.6	35
102	Impulsive Stretching of a Surface in a Viscous Fluid. SIAM Journal on Applied Mathematics, 1997, 57, 1-14.	1.8	34
103	Numerical simulations of the quantized vortices on a thin superconducting hollow sphere. Journal of Computational Physics, 2004, 201, 511-530.	3.8	33
104	Semidiscrete Finite Element Approximations of a Linear Fluid-Structure Interaction Problem. SIAM Journal on Numerical Analysis, 2004, 42, 1-29.	2.3	33
105	Nonlocal convection-diffusion problems and finite element approximations. Computer Methods in Applied Mechanics and Engineering, 2015, 289, 60-78.	6.6	33
106	A constrained string method and its numerical analysis. Communications in Mathematical Sciences, 2009, 7, 1039-1051.	1.0	33
107	Fourier Spectral Approximation to a Dissipative System Modeling the Flow of Liquid Crystals. SIAM Journal on Numerical Analysis, 2001, 39, 735-762.	2.3	32
108	From Micro to Macro Dynamics via a New Closure Approximation to the FENE Model of Polymeric Fluids. Multiscale Modeling and Simulation, 2005, 3, 895-917.	1.6	32

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109	Nonlocal diffusion and peridynamic models with Neumann type constraints and their numerical approximations. <i>Applied Mathematics and Computation</i> , 2017, 305, 282-298.	2.2	32
110	A Physics-Informed Deep Learning Paradigm for Traffic State and Fundamental Diagram Estimation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 11688-11698.	8.0	32
111	Coarsening Kinetics of a Two Phase Mixture with Highly Disparate Diffusion Mobility. <i>Communications in Computational Physics</i> , 2010, 8, 249-264.	1.7	32
112	Incorporating diffuse-interface nuclei in phase-field simulations. <i>Scripta Materialia</i> , 2010, 63, 8-11.	5.2	31
113	A Peridynamic Model of Fracture Mechanics with Bond-Breaking. <i>Journal of Elasticity</i> , 2018, 132, 197-218.	1.9	31
114	Existence of Weak Solutions to Some Vortex Density Models. <i>SIAM Journal on Mathematical Analysis</i> , 2003, 34, 1279-1299.	1.9	30
115	Diffuse-interface description of strain-dominated morphology of critical nuclei in phase transformations. <i>Acta Materialia</i> , 2008, 56, 3568-3576.	7.9	29
116	Extreme-Scale Phase Field Simulations of Coarsening Dynamics on the Sunway TaihuLight Supercomputer. , 2016, , .		29
117	Discrete gauge invariant approximations of a time dependent Ginzburg-Landau model of superconductivity. <i>Mathematics of Computation</i> , 1998, 67, 965-987.	2.1	28
118	Finite Volume Methods on Spheres and Spherical Centroidal Voronoi Meshes. <i>SIAM Journal on Numerical Analysis</i> , 2005, 43, 1673-1692.	2.3	28
119	Simultaneous Prediction of Morphologies of a Critical Nucleus and an Equilibrium Precipitate in Solids. <i>Communications in Computational Physics</i> , 2010, 7, 674-682.	1.7	28
120	Adaptive finite element methods for elliptic equations over hierarchical T-meshes. <i>Journal of Computational and Applied Mathematics</i> , 2011, 236, 878-891.	2.0	28
121	On the consistency between nearest-neighbor peridynamic discretizations and discretized classical elasticity models. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 311, 698-722.	6.6	28
122	A Gradient Method Approach to Optimization-Based Multidisciplinary Simulations and Nonoverlapping Domain Decomposition Algorithms. <i>SIAM Journal on Numerical Analysis</i> , 2000, 37, 1513-1541.	2.3	27
123	Optimization-based Shrinking Dimer Method for Finding Transition States. <i>SIAM Journal of Scientific Computing</i> , 2016, 38, A528-A544.	2.8	27
124	Fast and accurate implementation of Fourier spectral approximations of nonlocal diffusion operators and its applications. <i>Journal of Computational Physics</i> , 2017, 332, 118-134.	3.8	27
125	Asymptotically Compatible Schemes for Robust Discretization of Parametrized Problems with Applications to Nonlocal Models. <i>SIAM Review</i> , 2020, 62, 199-227.	8.4	27
126	On the Lawrenceâ€™Doniach and Anisotropic Ginzburgâ€™Landau Models for Layered Superconductors. <i>SIAM Journal on Applied Mathematics</i> , 1995, 55, 156-174.	1.8	26



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127	Approximations of a Ginzburg-Landau model for superconducting hollow spheres based on spherical centroidal Voronoi tessellations. <i>Mathematics of Computation</i> , 2004, 74, 1257-1281.	2.1	26
128	Numerical simulation of vortex dynamics in Ginzburg-Landau-Schrödinger equation. <i>European Journal of Applied Mathematics</i> , 2007, 18, 607-630.	2.9	26
129	Asymptotically compatible schemes for the approximation of fractional Laplacian and related nonlocal diffusion problems on bounded domains. <i>Advances in Computational Mathematics</i> , 2016, 42, 1363-1380.	1.6	26
130	Numerical Solution of the Nonlocal Diffusion Equation on the Real Line. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, A1951-A1968.	2.8	26
131	Scalable traffic stability analysis in mixed-autonomy using continuum models. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 111, 616-630.	7.6	26
132	Nonconforming Discontinuous Galerkin Methods for Nonlocal Variational Problems. <i>SIAM Journal on Numerical Analysis</i> , 2015, 53, 762-781.	2.3	25
133	Artificial Boundary Conditions for Nonlocal Heat Equations on Unbounded Domain. <i>Communications in Computational Physics</i> , 2017, 21, 16-39.	1.7	25
134	Visualizing ion diffusion in battery systems by fluorescence microscopy: A case study on the dissolution of LiMn2O4. <i>Nano Energy</i> , 2018, 45, 68-74.	16.0	25
135	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
136	Analysis and Convergence of a Covolume Approximation of the Ginzburg-Landau Model of Superconductivity. <i>SIAM Journal on Numerical Analysis</i> , 1998, 35, 1049-1072.	2.3	24
137	Nonlocal Wave Propagation in Unbounded Multi-Scale Media. <i>Communications in Computational Physics</i> , 2018, 24, .	1.7	24
138	Boundary recovery for three dimensional conforming Delaunay triangulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 2547-2563.	6.6	23
139	The Dynamics and Interaction of Quantized Vortices in the Ginzburg-Landau-Schrödinger Equation. <i>SIAM Journal on Applied Mathematics</i> , 2007, 67, 1740-1775.	1.8	23
140	Asymptotically compatible discretization of multidimensional nonlocal diffusion models and approximation of nonlocal Green's functions. <i>IMA Journal of Numerical Analysis</i> , 2019, 39, 607-625.	2.9	23
141	The quasi-Laguerre iteration. <i>Mathematics of Computation</i> , 1997, 66, 345-362.	2.1	22
142	Optimization Based Nonoverlapping Domain Decomposition Algorithms and Their Convergence. <i>SIAM Journal on Numerical Analysis</i> , 2001, 39, 1056-1077.	2.3	22
143	Analysis of a nonlocal-in-time parabolic equation. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 339-368.	0.9	22
144	Cascadic multigrid methods for parabolic problems. <i>Science in China Series A: Mathematics</i> , 2008, 51, 1415-1439.	0.5	21

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145	An Explicit-Implicit Predictor-Corrector Domain Decomposition Method for Time Dependent Multi-Dimensional Convection Diffusion Equations. <i>Numerical Mathematics</i> , 2009, 2, 301-325.	1.3	21
146	Nonlocal Conservation Laws. A New Class of Monotonicity-Preserving Models. <i>SIAM Journal on Numerical Analysis</i> , 2017, 55, 2465-2489.	2.3	21
147	A finite volume method on general surfaces and its error estimates. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 352, 645-668.	1.0	20
148	Constrained shrinking dimer dynamics for saddle point search with constraints. <i>Journal of Computational Physics</i> , 2012, 231, 4745-4758.	3.8	20
149	Trace Theorems for some Nonlocal Function Spaces with Heterogeneous Localization. <i>SIAM Journal on Mathematical Analysis</i> , 2017, 49, 1621-1644.	1.9	20
150	Mesh and solver co-adaptation in finite element methods for anisotropic problems. <i>Numerical Methods for Partial Differential Equations</i> , 2005, 21, 859-874.	3.6	19
151	Mathematical and Numerical Aspects of a Phase-field Approach to Critical Nuclei Morphology in Solids. <i>Journal of Scientific Computing</i> , 2008, 37, 89-102.	2.3	19
152	Integral approximations to classical diffusion and smoothed particle hydrodynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 286, 216-229.	6.6	19
153	Stability of Nonlocal Dirichlet Integrals and Implications for Peridynamic Correspondence Material Modeling. <i>SIAM Journal on Applied Mathematics</i> , 2018, 78, 1536-1552.	1.8	19
154	Diffuse Interface Energies Capturing the Euler Number: Relaxation and Renormalization. <i>Communications in Mathematical Sciences</i> , 2007, 5, 233-242.	1.0	19
155	Modeling and Analysis of a Periodic Ginzburg-Landau Model for Type-II Superconductors. <i>SIAM Journal on Applied Mathematics</i> , 1993, 53, 689-717.	1.8	18
156	Studies of a Ginzburg-Landau Model for d-Wave Superconductors. <i>SIAM Journal on Applied Mathematics</i> , 1999, 59, 1225-1250.	1.8	18
157	A new algorithm for the automation of phase diagram calculation. <i>Computational Materials Science</i> , 2006, 35, 61-74.	3.0	18
158	Phase field calculus, curvature-dependent energies, and vesicle membranes. <i>Philosophical Magazine</i> , 2011, 91, 165-181.	1.6	18
159	Robust a posteriori stress analysis for quadrature collocation approximations of nonlocal models via nonlocal gradients. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 310, 605-627.	6.6	18
160	Vortices in superconductors: modelling and computer simulations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1997, 355, 1957-1968.	3.4	17
161	Stochastic dynamics of Ginzburg-Landau vortices in superconductors. <i>Physical Review B</i> , 2001, 64, .	3.2	17
162	Critical Magnetic Field and Asymptotic Behavior of Superconducting Thin Films. <i>SIAM Journal on Mathematical Analysis</i> , 2002, 34, 239-256.	1.9	17

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