

# Qiang Du

## List of Publications by Citations

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288  
papers

10,092  
citations

50  
h-index

90  
g-index

299  
ext. papers

11,318  
ext. citations

2.5  
avg, IF

6.79  
L-index

#	Paper	IF	Citations
288	Centroidal Voronoi Tessellations: Applications and Algorithms. <i>SIAM Review</i> , <b>1999</b> , 41, 637-676	7.4	1275
287	Analysis and Approximation of Nonlocal Diffusion Problems with Volume Constraints. <i>SIAM Review</i> , <b>2012</b> , 54, 667-696	7.4	316
286	Analysis and Approximation of the Ginzburg–Landau Model of Superconductivity. <i>SIAM Review</i> , <b>1992</b> , 34, 54-81	7.4	291
285	A phase field approach in the numerical study of the elastic bending energy for vesicle membranes. <i>Journal of Computational Physics</i> , <b>2004</b> , 198, 450-468	4.1	264
284	Computing the Ground State Solution of Bose–Einstein Condensates by a Normalized Gradient Flow. <i>SIAM Journal of Scientific Computing</i> , <b>2004</b> , 25, 1674-1697	2.6	260
283	A NONLOCAL VECTOR CALCULUS, NONLOCAL VOLUME-CONSTRAINED PROBLEMS, AND NONLOCAL BALANCE LAWS. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2013</b> , 23, 493-540	3.5	244
282	Simulating the deformation of vesicle membranes under elastic bending energy in three dimensions. <i>Journal of Computational Physics</i> , <b>2006</b> , 212, 757-777	4.1	187
281	Convergence of the Lloyd Algorithm for Computing Centroidal Voronoi Tessellations. <i>SIAM Journal on Numerical Analysis</i> , <b>2006</b> , 44, 102-119	2.4	169
280	Numerical Analysis of a Continuum Model of Phase Transition. <i>SIAM Journal on Numerical Analysis</i> , <b>1991</b> , 28, 1310-1322	2.4	169
279	Constrained Centroidal Voronoi Tessellations for Surfaces. <i>SIAM Journal of Scientific Computing</i> , <b>2003</b> , 24, 1488-1506	2.6	168
278	Mathematical and Numerical Analysis of Linear Peridynamic Models with Nonlocal Boundary Conditions. <i>SIAM Journal on Numerical Analysis</i> , <b>2010</b> , 48, 1759-1780	2.4	141
277	A finite difference domain decomposition algorithm for numerical solution of the heat equation. <i>Mathematics of Computation</i> , <b>1991</b> , 57, 63-63	1.6	138
276	Tetrahedral mesh generation and optimization based on centroidal Voronoi tessellations. <i>International Journal for Numerical Methods in Engineering</i> , <b>2003</b> , 56, 1355-1373	2.4	128
275	Analysis and Comparison of Different Approximations to Nonlocal Diffusion and Linear Peridynamic Equations. <i>SIAM Journal on Numerical Analysis</i> , <b>2013</b> , 51, 3458-3482	2.4	120
274	Modelling and simulations of multi-component lipid membranes and open membranes via diffuse interface approaches. <i>Journal of Mathematical Biology</i> , <b>2008</b> , 56, 347-71	2	120
273	Finite Element Methods with Matching and Nonmatching Meshes for Maxwell Equations with Discontinuous Coefficients. <i>SIAM Journal on Numerical Analysis</i> , <b>2000</b> , 37, 1542-1570	2.4	117
272	Grid generation and optimization based on centroidal Voronoi tessellations. <i>Applied Mathematics and Computation</i> , <b>2002</b> , 133, 591-607	2.7	111

271	A phase field formulation of the Willmore problem. <i>Nonlinearity</i> , <b>2005</b> , 18, 1249-1267	1.7	107
270	Asymptotically Compatible Schemes and Applications to Robust Discretization of Nonlocal Models. <i>SIAM Journal on Numerical Analysis</i> , <b>2014</b> , 52, 1641-1665	2.4	103
269	Vortices in a rotating Bose-Einstein condensate: Critical angular velocities and energy diagrams in the Thomas-Fermi regime. <i>Physical Review A</i> , <b>2001</b> , 64,	2.6	102
268	Anisotropic Centroidal Voronoi Tessellations and Their Applications. <i>SIAM Journal of Scientific Computing</i> , <b>2005</b> , 26, 737-761	2.6	101
267	Probabilistic methods for centroidal Voronoi tessellations and their parallel implementations. <i>Parallel Computing</i> , <b>2002</b> , 28, 1477-1500	1	101
266	Global existence and uniqueness of solutions of the time-dependent ginzburg-landau model for superconductivity. <i>Applicable Analysis</i> , <b>1994</b> , 53, 1-17	0.8	95
265	Analysis of a linear fluid-structure interaction problem. <i>Discrete and Continuous Dynamical Systems</i> , <b>2003</b> , 9, 633-650	2	95
264	Numerical Approximation of Some Linear Stochastic Partial Differential Equations Driven by Special Additive Noises. <i>SIAM Journal on Numerical Analysis</i> , <b>2002</b> , 40, 1421-1445	2.4	83
263	Mathematical analysis for the peridynamic nonlocal continuum theory. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2011</b> , 45, 217-234	1.8	81
262	Nonlocal Constrained Value Problems for a Linear Peridynamic Navier Equation. <i>Journal of Elasticity</i> , <b>2014</b> , 116, 27-51	1.5	72
261	Analysis and Applications of the Exponential Time Differencing Schemes and Their Contour Integration Modifications. <i>BIT Numerical Mathematics</i> , <b>2005</b> , 45, 307-328	1.7	71
260	Fractional Diffusion on Bounded Domains. <i>Fractional Calculus and Applied Analysis</i> , <b>2015</b> , 18, 342-360	2.7	67
259	Advances in Studies and Applications of Centroidal Voronoi Tessellations. <i>Numerical Mathematics</i> , <b>2010</b> , 3, 119-142	1.5	66
258	Ginzburg--Landau Vortices: Dynamics, Pinning, and Hysteresis. <i>SIAM Journal on Mathematical Analysis</i> , <b>1997</b> , 28, 1265-1293	1.7	66
257	Dynamics of Rotating Bose--Einstein Condensates and its Efficient and Accurate Numerical Computation. <i>SIAM Journal on Applied Mathematics</i> , <b>2006</b> , 66, 758-786	1.8	65
256	Spectral implementation of an adaptive moving mesh method for phase-field equations. <i>Journal of Computational Physics</i> , <b>2006</b> , 220, 498-510	4.1	65
255	Analysis of the Volume-Constrained Peridynamic Navier Equation of Linear Elasticity. <i>Journal of Elasticity</i> , <b>2013</b> , 113, 193-217	1.5	64
254	Numerical Studies of Discrete Approximations to the Allen-Cahn Equation in the Sharp Interface Limit. <i>SIAM Journal of Scientific Computing</i> , <b>2009</b> , 31, 3042-3063	2.6	63

253	Analysis of a Ladyzhenskaya model for incompressible viscous flow. <i>Journal of Mathematical Analysis and Applications</i> , <b>1991</b> , 155, 21-45	1.1	62
252	Energetic variational approaches in modeling vesicle and fluid interactions. <i>Physica D: Nonlinear Phenomena</i> , <b>2009</b> , 238, 923-930	3.3	61
251	Maximum Principle Preserving Exponential Time Differencing Schemes for the Nonlocal Allen--Cahn Equation. <i>SIAM Journal on Numerical Analysis</i> , <b>2019</b> , 57, 875-898	2.4	58
250	Recent progress in robust and quality Delaunay mesh generation. <i>Journal of Computational and Applied Mathematics</i> , <b>2006</b> , 195, 8-23	2.4	58
249	Voronoi-based finite volume methods, optimal Voronoi meshes, and PDEs on the sphere. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2003</b> , 192, 3933-3957	5.7	57
248	An iterative-perturbation scheme for treating inhomogeneous elasticity in phase-field models. <i>Journal of Computational Physics</i> , <b>2005</b> , 208, 34-50	4.1	57
247	Computational simulation of type-II superconductivity including pinning phenomena. <i>Physical Review B</i> , <b>1995</b> , 51, 16194-16203	3.3	57
246	Adaptive Finite Element Method for a Phase Field Bending Elasticity Model of Vesicle Membrane Deformations. <i>SIAM Journal of Scientific Computing</i> , <b>2008</b> , 30, 1634-1657	2.6	55
245	Morphology of critical nuclei in solid-state phase transformations. <i>Physical Review Letters</i> , <b>2007</b> , 98, 2657-2660	7.03	54
244	A model for variable thickness superconducting thin films. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , <b>1996</b> , 47, 410-431	1.6	53
243	Finite element methods for the time-dependent Ginzburg-Landau model of superconductivity. <i>Computers and Mathematics With Applications</i> , <b>1994</b> , 27, 119-133	2.7	53
242	Analysis of a phase field Navier-Stokes vesicle-fluid interaction model. <i>Discrete and Continuous Dynamical Systems - Series B</i> , <b>2007</b> , 8, 539-556	1.3	53
241	The bond-based peridynamic system with Dirichlet-type volume constraint. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , <b>2014</b> , 144, 161-186	1	52
240	A New Approach for a Nonlocal, Nonlinear Conservation Law. <i>SIAM Journal on Applied Mathematics</i> , <b>2012</b> , 72, 464-487	1.8	52
239	Fast Explicit Integration Factor Methods for Semilinear Parabolic Equations. <i>Journal of Scientific Computing</i> , <b>2015</b> , 62, 431-455	2.3	51
238	FENE Dumbbell Model and Its Several Linear and Nonlinear Closure Approximations. <i>Multiscale Modeling and Simulation</i> , <b>2005</b> , 4, 709-731	1.8	50
237	Numerical approximations of the Ginzburg-Landau models for superconductivity. <i>Journal of Mathematical Physics</i> , <b>2005</b> , 46, 095109	1.2	50
236	A posteriori error analysis of finite element method for linear nonlocal diffusion and peridynamic models. <i>Mathematics of Computation</i> , <b>2013</b> , 82, 1889-1922	1.6	49

235	Adhesion of vesicles to curved substrates. <i>Physical Review E</i> , <b>2008</b> , 77, 011907	2.4	49
234	Retrieving Topological Information for Phase Field Models. <i>SIAM Journal on Applied Mathematics</i> , <b>2005</b> , 65, 1913-1932	1.8	49
233	Centroidal Voronoi Tessellation Algorithms for Image Compression, Segmentation, and Multichannel Restoration. <i>Journal of Mathematical Imaging and Vision</i> , <b>2006</b> , 24, 177-194	1.6	47
232	Convergence Analysis of a Finite Volume Method for Maxwell's Equations in Nonhomogeneous Media. <i>SIAM Journal on Numerical Analysis</i> , <b>2003</b> , 41, 37-63	2.4	47
231	Modeling the spontaneous curvature effects in static cell membrane deformations by a phase field formulation. <i>Communications on Pure and Applied Analysis</i> , <b>2005</b> , 4, 537-548	1.9	46
230	Analysis of a scalar nonlocal peridynamic model with a sign changing kernel. <i>Discrete and Continuous Dynamical Systems - Series B</i> , <b>2013</b> , 18, 1415-1437	1.3	46
229	A Ginzburg-Landau type model of superconducting/normal junctions including Josephson junctions. <i>European Journal of Applied Mathematics</i> , <b>1995</b> , 6, 97-114	1	45
228	Acceleration schemes for computing centroidal Voronoi tessellations. <i>Numerical Linear Algebra With Applications</i> , <b>2006</b> , 13, 173-192	1.6	44
227	Efficient Parallel Algorithms for Parabolic Problems. <i>SIAM Journal on Numerical Analysis</i> , <b>2002</b> , 39, 1469-1487	1.8	44
226	Spectral viscosity approximations to multidimensional scalar conservation laws. <i>Mathematics of Computation</i> , <b>1993</b> , 61, 629-629	1.6	43
225	Stabilized linear semi-implicit schemes for the nonlocal Cahn-Hilliard equation. <i>Journal of Computational Physics</i> , <b>2018</b> , 363, 39-54	4.1	42
224	Finite-Element Approximations of a Ladyzhenskaya Model for Stationary Incompressible Viscous Flow. <i>SIAM Journal on Numerical Analysis</i> , <b>1990</b> , 27, 1-19	2.4	42
223	Computational studies of coarsening rates for the Cahn-Hilliard equation with phase-dependent diffusion mobility. <i>Journal of Computational Physics</i> , <b>2016</b> , 310, 85-108	4.1	41
222	The optimal centroidal Voronoi tessellations and the gershgorin's conjecture in the three-dimensional space. <i>Computers and Mathematics With Applications</i> , <b>2005</b> , 49, 1355-1373	2.7	41
221	Finite element approximation of the Cahn-Hilliard equation on surfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2011</b> , 200, 2458-2470	5.7	40
220	High-Kappa Limits of the Time-Dependent Ginzburg-Landau Model. <i>SIAM Journal on Applied Mathematics</i> , <b>1996</b> , 56, 1060-1093	1.8	40
219	On the variational limit of a class of nonlocal functionals related to peridynamics. <i>Nonlinearity</i> , <b>2015</b> , 28, 3999-4035	1.7	39
218	Meshfree, probabilistic determination of point sets and support regions for meshless computing. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2002</b> , 191, 1349-1366	5.7	39

217	Shrinking Dimer Dynamics and Its Applications to Saddle Point Search. <i>SIAM Journal on Numerical Analysis</i> , <b>2012</b> , 50, 1899-1921	2.4	38
216	An integrated framework for multi-scale materials simulation and design. <i>Journal of Computer-Aided Materials Design</i> , <b>2004</b> , 11, 183-199		38
215	Asymptotically Compatible Fourier Spectral Approximations of Nonlocal Allen--Cahn Equations. <i>SIAM Journal on Numerical Analysis</i> , <b>2016</b> , 54, 1899-1919	2.4	36
214	Dissipative flow and vortex shedding in the Painlevé boundary layer of a Bose-Einstein condensate. <i>Physical Review Letters</i> , <b>2003</b> , 91, 090407	7.4	36
213	A Convergent Adaptive Finite Element Algorithm for Nonlocal Diffusion and Peridynamic Models. <i>SIAM Journal on Numerical Analysis</i> , <b>2013</b> , 51, 1211-1234	2.4	35
212	A Reinforced Topic-Aware Convolutional Sequence-to-Sequence Model for Abstractive Text Summarization <b>2018</b> ,		35
211	A phase field model for vesicle-substrate adhesion. <i>Journal of Computational Physics</i> , <b>2009</b> , 228, 7837-7849	4.1	34
210	On Mesh Geometry and Stiffness Matrix Conditioning for General Finite Element Spaces. <i>SIAM Journal on Numerical Analysis</i> , <b>2009</b> , 47, 1421-1444	2.4	34
209	Constrained boundary recovery for three dimensional Delaunay triangulations. <i>International Journal for Numerical Methods in Engineering</i> , <b>2004</b> , 61, 1471-1500	2.4	34
208	A model for superconducting thin films having variable thickness. <i>Physica D: Nonlinear Phenomena</i> , <b>1993</b> , 69, 215-231	3.3	34
207	Efficient and stable exponential time differencing Runge-Kutta methods for phase field elastic bending energy models. <i>Journal of Computational Physics</i> , <b>2016</b> , 316, 21-38	4.1	34
206	Weak Solutions for the Cahn-Hilliard Equation with Degenerate Mobility. <i>Archive for Rational Mechanics and Analysis</i> , <b>2016</b> , 219, 1161-1184	2.3	33
205	Fast and accurate algorithms for simulating coarsening dynamics of Cahn-Hilliard equations. <i>Computational Materials Science</i> , <b>2015</b> , 108, 272-282	3.2	33
204	Nonlocal convection-diffusion volume-constrained problems and jump processes. <i>Discrete and Continuous Dynamical Systems - Series B</i> , <b>2014</b> , 19, 373-389	1.3	32
203	High order approximation of the Frobenius-Perron operator. <i>Applied Mathematics and Computation</i> , <b>1993</b> , 53, 151-171	2.7	31
202	Motion of Interfaces Governed by the Cahn--Hilliard Equation with Highly Disparate Diffusion Mobility. <i>SIAM Journal on Applied Mathematics</i> , <b>2012</b> , 72, 1818-1841	1.8	30
201	Incorporating diffuse-interface nuclei in phase-field simulations. <i>Scripta Materialia</i> , <b>2010</b> , 63, 8-11	5.6	30
200	Coarsening Kinetics of a Two Phase Mixture with Highly Disparate Diffusion Mobility. <i>Communications in Computational Physics</i> , <b>2010</b> , 8, 249-264	2.4	30

199	Coarsening Mechanism for Systems Governed by the Cahn--Hilliard Equation with Degenerate Diffusion Mobility. <i>Multiscale Modeling and Simulation</i> , <b>2014</b> , 12, 1870-1889	1.8	29
198	Impulsive Stretching of a Surface in a Viscous Fluid. <i>SIAM Journal on Applied Mathematics</i> , <b>1997</b> , 57, 1-14	1.8	29
197	From Micro to Macro Dynamics via a New Closure Approximation to the FENE Model of Polymeric Fluids. <i>Multiscale Modeling and Simulation</i> , <b>2005</b> , 3, 895-917	1.8	29
196	Numerical methods for nonlocal and fractional models. <i>Acta Numerica</i> , <b>2020</b> , 29, 1-124	15.1	29
195	Robust modeling of constant mean curvature surfaces. <i>ACM Transactions on Graphics</i> , <b>2012</b> , 31, 1-11	7.6	28
194	Diffuse-interface description of strain-dominated morphology of critical nuclei in phase transformations. <i>Acta Materialia</i> , <b>2008</b> , 56, 3568-3576	8.4	28
193	Numerical simulations of the quantized vortices on a thin superconducting hollow sphere. <i>Journal of Computational Physics</i> , <b>2004</b> , 201, 511-530	4.1	28
192	Recent developments in computational modelling of nucleation in phase transformations. <i>Npj Computational Materials</i> , <b>2016</b> , 2,	10.9	27
191	Existence of Weak Solutions to Some Vortex Density Models. <i>SIAM Journal on Mathematical Analysis</i> , <b>2003</b> , 34, 1279-1299	1.7	27
190	Characterization of function spaces of vector fields and an application in nonlinear peridynamics. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2016</b> , 140, 82-111	1.3	27
189	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> , <b>2019</b> , 75, 633-643	1.7	26
188	Nonlocal convection-diffusion problems and finite element approximations. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2015</b> , 289, 60-78	5.7	26
187	A constrained string method and its numerical analysis. <i>Communications in Mathematical Sciences</i> , <b>2009</b> , 7, 1039-1051	1	26
186	Extreme-Scale Phase Field Simulations of Coarsening Dynamics on the Sunway TaihuLight Supercomputer <b>2016</b> ,		26
185	Maximum Bound Principles for a Class of Semilinear Parabolic Equations and Exponential Time-Differencing Schemes. <i>SIAM Review</i> , <b>2021</b> , 63, 317-359	7.4	26
184	On the consistency between nearest-neighbor peridynamic discretizations and discretized classical elasticity models. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2016</b> , 311, 698-722	5.7	24
183	Nonlocal Convection-Diffusion Problems on Bounded Domains and Finite-Range Jump Processes. <i>Computational Methods in Applied Mathematics</i> , <b>2017</b> , 17, 707-722	1.2	24
182	Finite Volume Methods on Spheres and Spherical Centroidal Voronoi Meshes. <i>SIAM Journal on Numerical Analysis</i> , <b>2005</b> , 43, 1673-1692	2.4	24



181	On the LawrenceDoniach and Anisotropic GinzburgLandau Models for Layered Superconductors. <i>SIAM Journal on Applied Mathematics</i> , <b>1995</b> , 55, 156-174	1.8	24
180	A conservative nonlocal convectionDiffusion model and asymptotically compatible finite difference discretization. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2017</b> , 320, 46-67	5.7	23
179	Adaptive finite element methods for elliptic equations over hierarchical T-meshes. <i>Journal of Computational and Applied Mathematics</i> , <b>2011</b> , 236, 878-891	2.4	23
178	The Dynamics and Interaction of Quantized Vortices in the GinzburgLandauSchrödinger Equation. <i>SIAM Journal on Applied Mathematics</i> , <b>2007</b> , 67, 1740-1775	1.8	23
177	A Gradient Method Approach to Optimization-Based Multidisciplinary Simulations and Nonoverlapping Domain Decomposition Algorithms. <i>SIAM Journal on Numerical Analysis</i> , <b>2000</b> , 37, 1513-1541	2.4	23
176	Fourier Spectral Approximation to a Dissipative System Modeling the Flow of Liquid Crystals. <i>SIAM Journal on Numerical Analysis</i> , <b>2001</b> , 39, 735-762	2.4	23
175	Simultaneous Prediction of Morphologies of a Critical Nucleus and an Equilibrium Precipitate in Solids. <i>Communications in Computational Physics</i> , <b>2010</b> , 7, 674-682	2.4	22
174	Numerical simulation of vortex dynamics in Ginzburg-Landau-Schrödinger equation. <i>European Journal of Applied Mathematics</i> , <b>2007</b> , 18, 607-630	1	22
173	Semidiscrete Finite Element Approximations of a Linear Fluid-Structure Interaction Problem. <i>SIAM Journal on Numerical Analysis</i> , <b>2004</b> , 42, 1-29	2.4	22
172	New Error Bounds for Deep ReLU Networks Using Sparse Grids. <i>SIAM Journal on Mathematics of Data Science</i> , <b>2019</b> , 1, 78-92	3.1	22
171	Fast and accurate implementation of Fourier spectral approximations of nonlocal diffusion operators and its applications. <i>Journal of Computational Physics</i> , <b>2017</b> , 332, 118-134	4.1	21
170	Time-Fractional AllenCahn Equations: Analysis and Numerical Methods. <i>Journal of Scientific Computing</i> , <b>2020</b> , 85, 1	2.3	21
169	The quasi-Laguerre iteration. <i>Mathematics of Computation</i> , <b>1997</b> , 66, 345-362	1.6	21
168	Approximations of a Ginzburg-Landau model for superconducting hollow spheres based on spherical centroidal Voronoi tessellations. <i>Mathematics of Computation</i> , <b>2004</b> , 74, 1257-1281	1.6	21
167	Discrete gauge invariant approximations of a time dependent Ginzburg-Landau model of superconductivity. <i>Mathematics of Computation</i> , <b>1998</b> , 67, 965-987	1.6	21
166	A cooperative game for automated learning of elasto-plasticity knowledge graphs and models with AI-guided experimentation. <i>Computational Mechanics</i> , <b>2019</b> , 64, 467-499	4	20
165	Nonconforming Discontinuous Galerkin Methods for Nonlocal Variational Problems. <i>SIAM Journal on Numerical Analysis</i> , <b>2015</b> , 53, 762-781	2.4	20
164	Boundary recovery for three dimensional conforming Delaunay triangulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2004</b> , 193, 2547-2563	5.7	20



163	A Peridynamic Model of Fracture Mechanics with Bond-Breaking. <i>Journal of Elasticity</i> , <b>2018</b> , 132, 197-218.	1.5	20
162	Analysis and Convergence of a Covolume Approximation of the Ginzburg–Landau Model of Superconductivity. <i>SIAM Journal on Numerical Analysis</i> , <b>1998</b> , 35, 1049-1072	2.4	19
161	Optimization Based Nonoverlapping Domain Decomposition Algorithms and Their Convergence. <i>SIAM Journal on Numerical Analysis</i> , <b>2001</b> , 39, 1056-1077	2.4	19
160	Asymptotically compatible schemes for the approximation of fractional Laplacian and related nonlocal diffusion problems on bounded domains. <i>Advances in Computational Mathematics</i> , <b>2016</b> , 42, 1363-1380	1.6	19
159	Nonlocal diffusion and peridynamic models with Neumann type constraints and their numerical approximations. <i>Applied Mathematics and Computation</i> , <b>2017</b> , 305, 282-298	2.7	18
158	Visualizing ion diffusion in battery systems by fluorescence microscopy: A case study on the dissolution of LiMn2O4. <i>Nano Energy</i> , <b>2018</b> , 45, 68-74	17.1	18
157	Constrained shrinking dimer dynamics for saddle point search with constraints. <i>Journal of Computational Physics</i> , <b>2012</b> , 231, 4745-4758	4.1	18
156	Cascadic multigrid methods for parabolic problems. <i>Science in China Series A: Mathematics</i> , <b>2008</b> , 51, 1415-1439		18
155	Analysis of a nonlocal-in-time parabolic equation. <i>Discrete and Continuous Dynamical Systems - Series B</i> , <b>2017</b> , 22, 339-368	1.3	18
154	Diffuse Interface Energies Capturing the Euler Number: Relaxation and Renormalization. <i>Communications in Mathematical Sciences</i> , <b>2007</b> , 5, 233-242	1	18
153	The phase field method for geometric moving interfaces and their numerical approximations. <i>Handbook of Numerical Analysis</i> , <b>2020</b> , 21, 425-508	1	17
152	A new algorithm for the automation of phase diagram calculation. <i>Computational Materials Science</i> , <b>2006</b> , 35, 61-74	3.2	17
151	Optimization-based Shrinking Dimer Method for Finding Transition States. <i>SIAM Journal of Scientific Computing</i> , <b>2016</b> , 38, A528-A544	2.6	16
150	An Explicit-Implicit Predictor-Corrector Domain Decomposition Method for Time Dependent Multi-Dimensional Convection Diffusion Equations. <i>Numerical Mathematics</i> , <b>2009</b> , 2, 301-325	1.5	16
149	Vortices in superconductors: modelling and computer simulations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>1997</b> , 355, 1957-1968	3	16
148	Mathematical and Numerical Aspects of a Phase-field Approach to Critical Nuclei Morphology in Solids. <i>Journal of Scientific Computing</i> , <b>2008</b> , 37, 89-102	2.3	16
147	Mesh and solver co-adaptation in finite element methods for anisotropic problems. <i>Numerical Methods for Partial Differential Equations</i> , <b>2005</b> , 21, 859-874	2.5	16
146	Stochastic dynamics of Ginzburg-Landau vortices in superconductors. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	16

145	Studies of a Ginzburg--Landau Model for Wave Superconductors. <i>SIAM Journal on Applied Mathematics</i> , <b>1999</b> , 59, 1225-1250	1.8	16
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143	Integral approximations to classical diffusion and smoothed particle hydrodynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2015</b> , 286, 216-229	5.7	15
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- 1 The Average Distance Problem with Perimeter-to-Area Ratio Penalization. *SIAM Journal on Mathematical Analysis*, **2022**, 54, 3122-3138

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