

Qiang Du

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Stability of a Nonlocal Traffic Flow Model for Connected Vehicles. <i>SIAM Journal on Applied Mathematics</i> , 2022 , 82, 221-243	1.8	0
287	Nonlocal trace spaces and extension results for nonlocal calculus. <i>Journal of Functional Analysis</i> , 2022 , 282, 109453	1.4	1
286	The Average Distance Problem with Perimeter-to-Area Ratio Penalization. <i>SIAM Journal on Mathematical Analysis</i> , 2022 , 54, 3122-3138	1.7	
285	Deep ReLU Networks Overcome the Curse of Dimensionality for Generalized Bandlimited Functions. <i>Journal of Computational Mathematics</i> , 2021 , 39, 801-815	2.1	5
284	Numerical Investigations of Film Cooling Characteristics of Interrupted Slot and Trench Holes on a Vane Endwall. <i>Journal of Thermal Science</i> , 2021 , 30, 1010-1024	1.9	3
283	The graph limit of the minimizer of the Onsager-Machlup functional and its computation. <i>Science China Mathematics</i> , 2021 , 64, 239-280	0.8	2
282	A modified limited memory steepest descent method motivated by an inexact super-linear convergence rate analysis. <i>IMA Journal of Numerical Analysis</i> , 2021 , 41, 247-270	1.8	0
281	Investigation on the flow-control strategy for an aggressive turbine transition ducts. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2021 , 235, 589-599	0.9	
280	A non-cooperative meta-modeling game for automated third-party calibrating, validating and falsifying constitutive laws with parallelized adversarial attacks. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 373, 113514	5.7	6
279	A Physics-Informed Deep Learning Paradigm for Traffic State and Fundamental Diagram Estimation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-11	6.1	4
278	Dynamic driving and routing games for autonomous vehicles on networks: A mean field game approach. <i>Transportation Research Part C: Emerging Technologies</i> , 2021 , 128, 103189	8.4	5
277	Censored stable subordinators and fractional derivatives. <i>Fractional Calculus and Applied Analysis</i> , 2021 , 24, 1035-1068	2.7	
276	Discovery of Dynamics Using Linear Multistep Methods. <i>SIAM Journal on Numerical Analysis</i> , 2021 , 59, 429-455	2.4	4
275	Maximum Bound Principles for a Class of Semilinear Parabolic Equations and Exponential Time-Differencing Schemes. <i>SIAM Review</i> , 2021 , 63, 317-359	7.4	26
274	Time-Fractional Allen-Cahn Equations: Analysis and Numerical Methods. <i>Journal of Scientific Computing</i> , 2020 , 85, 1	2.3	21
273	Influence of Secondary Sealing Flow on Performance of Turbine Axial Rim Seals. <i>Journal of Thermal Science</i> , 2020 , 29, 840-851	1.9	1
272	Unsteady flow mechanism of the integrated aggressive inter-turbine duct in low Reynolds number condition. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2020 , 234, 1507-1517	0.9	0

271	Stability and Error Analysis for a Second-Order Fast Approximation of the Local and Nonlocal Diffusion Equations on the Real Line. <i>SIAM Journal on Numerical Analysis</i> , 2020 , 58, 1893-1917	2.4	2
270	Energy Decaying Phase-Field Model for Fluid-Particle Interaction in Two-Phase Flow. <i>SIAM Journal on Applied Mathematics</i> , 2020 , 80, 572-598	1.8	
269	Asymptotically Compatible Schemes for Robust Discretization of Parametrized Problems with Applications to Nonlocal Models. <i>SIAM Review</i> , 2020 , 62, 199-227	7.4	10
268	The phase field method for geometric moving interfaces and their numerical approximations. <i>Handbook of Numerical Analysis</i> , 2020 , 21, 425-508	1	17
267	Nonlocal gradient operators with a nonspherical interaction neighborhood and their applications. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2020 , 54, 105-128	1.8	6
266	A game-theoretic framework for autonomous vehicles velocity control: Bridging microscopic differential games and macroscopic mean field games. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2020 , 25, 4869-4903	1.3	2
265	Scalable traffic stability analysis in mixed-autonomy using continuum models. <i>Transportation Research Part C: Emerging Technologies</i> , 2020 , 111, 616-630	8.4	10
264	Numerical methods for nonlocal and fractional models. <i>Acta Numerica</i> , 2020 , 29, 1-124	15.1	29
263	Numerical Investigation on the Effects of Cavity-Blowing Jet on Intermediate Turbine Duct Flowfield. <i>International Journal of Aeronautical and Space Sciences</i> , 2020 , 21, 172-185	1.2	
262	Impact of turbulence intensity on the unsteady flow characteristics of the integrated aggressive inter-turbine duct. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2020 , 234, 490-499	1.6	0
261	Variational Phase Field Formulations of Polarization and Phase Transition in Ferroelectric Thin Films. <i>SIAM Journal on Applied Mathematics</i> , 2020 , 80, 1590-1606	1.8	1
260	A Discontinuous Galerkin Method with Penalty for One-Dimensional Nonlocal Diffusion Problems. <i>Communications on Applied Mathematics and Computation</i> , 2020 , 2, 31-55	0.9	3
259	Mathematics of Smoothed Particle Hydrodynamics: A Study via Nonlocal Stokes Equations. <i>Foundations of Computational Mathematics</i> , 2020 , 20, 801-826	2.7	7
258	Stochastic representation of solution to nonlocal-in-time diffusion. <i>Stochastic Processes and Their Applications</i> , 2020 , 130, 2058-2085	1.1	8
257	Nonlocal Models with Heterogeneous Localization and Their Application to Seamless Local-Nonlocal Coupling. <i>Multiscale Modeling and Simulation</i> , 2019 , 17, 1052-1075	1.8	8
256	Asymptotically Compatible SPH-Like Particle Discretizations of One Dimensional Linear Advection Models. <i>SIAM Journal on Numerical Analysis</i> , 2019 , 57, 127-147	2.4	7
255	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	20
254	Maximum Principle Preserving Exponential Time Differencing Schemes for the Nonlocal Allen-Cahn Equation. <i>SIAM Journal on Numerical Analysis</i> , 2019 , 57, 875-898	2.4	58

253	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	1.8	9
252	A Conforming DG Method for Linear Nonlocal Models with Integrable Kernels. <i>Journal of Scientific Computing</i> , 2019 , 80, 1913-1935	2.3	7
251	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	1.7	26
250	Algorithm for distance list extraction from pair distribution functions. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019 , 75, 658-668	1.7	5
249	Nonlocal Modeling, Analysis, and Computation 2019 ,		13
248	On uniform second order nonlocal approximations to linear two-point boundary value problems. <i>Communications in Mathematical Sciences</i> , 2019 , 17, 1737-1755	1	4
247	Recent Progress in Mathematical and Computational Aspects of Peridynamics 2019 , 1197-1222		
246	New Error Bounds for Deep ReLU Networks Using Sparse Grids. <i>SIAM Journal on Mathematics of Data Science</i> , 2019 , 1, 78-92	3.1	22
245	Analysis of Fully Discrete Approximations for Dissipative Systems and Application to Time-Dependent Nonlocal Diffusion Problems. <i>Journal of Scientific Computing</i> , 2019 , 78, 1438-1466	2.3	9
244	Stabilized linear semi-implicit schemes for the nonlocal Cahn-Hilliard equation. <i>Journal of Computational Physics</i> , 2018 , 363, 39-54	4.1	42
243	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	17.1	18
242	Data-driven compressive sensing and applications in uncertainty quantification. <i>Journal of Computational Physics</i> , 2018 , 374, 787-802	4.1	3
241	Asymptotically Compatible Schemes for Stochastic Homogenization. <i>SIAM Journal on Numerical Analysis</i> , 2018 , 56, 1942-1960	2.4	0
240	A discontinuous Galerkin method for one-dimensional time-dependent nonlocal diffusion problems. <i>Mathematics of Computation</i> , 2018 , 88, 123-147	1.6	12
239	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	11
238	Analyzing bowtie structures with sharp tips by a vertical mode expansion method. <i>Optics Express</i> , 2018 , 26, 32346-32352	3.3	2
237	A Reinforced Topic-Aware Convolutional Sequence-to-Sequence Model for Abstractive Text Summarization 2018 ,		35
236	Nonlocal Wave Propagation in Unbounded Multi-Scale Media. <i>Communications in Computational Physics</i> , 2018 , 24,	2.4	7

235	A new phase-field approach to variational implicit solvation of charged molecules with the Coulomb-field approximation. <i>Communications in Mathematical Sciences</i> , 2018 , 16, 1203-1223	1	5
234	Recent Progress in Mathematical and Computational Aspects of Peridynamics 2018 , 1-26		1
233	A Peridynamic Model of Fracture Mechanics with Bond-Breaking. <i>Journal of Elasticity</i> , 2018 , 132, 197-218.	1.5	20
232	Influence of Reynolds Number on the Unsteady Aerodynamics of Integrated Aggressive Intermediate Turbine Duct. <i>Journal of Thermal Science</i> , 2018 , 27, 294-303	1.9	3
231	A Quasi-nonlocal Coupling Method for Nonlocal and Local Diffusion Models. <i>SIAM Journal on Numerical Analysis</i> , 2018 , 56, 1386-1404	2.4	14
230	Numerical Solution of a Two-Dimensional Nonlocal Wave Equation on Unbounded Domains. <i>SIAM Journal of Scientific Computing</i> , 2018 , 40, A1430-A1445	2.6	14
229	A spectral method for nonlocal diffusion operators on the sphere. <i>Journal of Computational Physics</i> , 2018 , 372, 893-911	4.1	8
228	Nonlocal diffusion and peridynamic models with Neumann type constraints and their numerical approximations. <i>Applied Mathematics and Computation</i> , 2017 , 305, 282-298	2.7	18
227	Asymptotically compatible schemes for space-time nonlocal diffusion equations. <i>Chaos, Solitons and Fractals</i> , 2017 , 102, 361-371	9.3	12
226	Numerical investigation of the effects of ITD length on low pressure nozzle. <i>Journal of Thermal Science</i> , 2017 , 26, 199-207	1.9	2
225	Trace Theorems for some Nonlocal Function Spaces with Heterogeneous Localization. <i>SIAM Journal on Mathematical Analysis</i> , 2017 , 49, 1621-1644	1.7	15
224	A conservative nonlocal convection-diffusion model and asymptotically compatible finite difference discretization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 320, 46-67	5.7	23
223	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	4.1	21
222	Artificial Boundary Conditions for Nonlocal Heat Equations on Unbounded Domain. <i>Communications in Computational Physics</i> , 2017 , 21, 16-39	2.4	10
221	Nonlocal Conservation Laws. A New Class of Monotonicity-Preserving Models. <i>SIAM Journal on Numerical Analysis</i> , 2017 , 55, 2465-2489	2.4	8
220	Calculating corner singularities by boundary integral equations. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2017 , 34, 961-966	1.8	1
219	Numerical investigation of the effects of rising angle on intermediate turbine duct and nearby turbines. <i>Journal of Thermal Science</i> , 2017 , 26, 421-430	1.9	1
218	Numerical Solution of the Nonlocal Diffusion Equation on the Real Line. <i>SIAM Journal of Scientific Computing</i> , 2017 , 39, A1951-A1968	2.6	11

217	Nonlocal Convection-Diffusion Problems on Bounded Domains and Finite-Range Jump Processes. <i>Computational Methods in Applied Mathematics</i> , 2017 , 17, 707-722	1.2	24
216	General neck condition for the limit shape of budding vesicles. <i>Physical Review E</i> , 2017 , 95, 042403	2.4	2
215	Flow development through HP & LP turbines, Part I: Inward rotating cavity flow with superimposed throughflow. <i>Journal of Thermal Science</i> , 2017 , 26, 297-307	1.9	1
214	Flow development through HP & LP turbines, Part II: Effects of the hub endwall secondary sealing air flow on the turbine's mainstream flow. <i>Journal of Thermal Science</i> , 2017 , 26, 308-315	1.9	2
213	Analysis of a nonlocal-in-time parabolic equation. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017 , 22, 339-368	1.3	18
212	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	5.7	24
211	A Class of High Order Nonlocal Operators. <i>Archive for Rational Mechanics and Analysis</i> , 2016 , 222, 1521-1553	5.3	5
210	Recent developments in computational modelling of nucleation in phase transformations. <i>Npj Computational Materials</i> , 2016 , 2,	10.9	27
209	Weak Solutions for the Cahn-Hilliard Equation with Degenerate Mobility. <i>Archive for Rational Mechanics and Analysis</i> , 2016 , 219, 1161-1184	2.3	33
208	Numerical investigation of radial inflow in the impeller rear cavity with and without baffle. <i>Science China Technological Sciences</i> , 2016 , 59, 456-467	3.5	4
207	Asymptotically Compatible Fourier Spectral Approximations of Nonlocal Allen-Cahn Equations. <i>SIAM Journal on Numerical Analysis</i> , 2016 , 54, 1899-1919	2.4	36
206	Generalized local and nonlocal master equations for some stochastic processes. <i>Computers and Mathematics With Applications</i> , 2016 , 71, 2497-2512	2.7	4
205	A Multiscale Implementation Based on Adaptive Mesh Refinement for the Nonlocal Peridynamics Model in One Dimension. <i>Multiscale Modeling and Simulation</i> , 2016 , 14, 398-429	1.8	14
204	Optimization-based Shrinking Dimer Method for Finding Transition States. <i>SIAM Journal of Scientific Computing</i> , 2016 , 38, A528-A544	2.6	16
203	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	4.1	41
202	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	19
201	Multiscale analysis of linear evolution equations with applications to nonlocal models for heterogeneous media. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2016 , 50, 1425-1455	1.8	8
200	Extreme-Scale Phase Field Simulations of Coarsening Dynamics on the Sunway TaihuLight Supercomputer 2016 ,		26

199	Characterization of function spaces of vector fields and an application in nonlinear peridynamics. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2016 , 140, 82-111	1.3	27
198	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	4.1	34
197	Effects of rising angle on upstream blades and intermediate turbine duct. <i>Journal of Thermal Science</i> , 2016 , 25, 293-301	1.9	5
196	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	5.7	15
195	Nonconforming Discontinuous Galerkin Methods for Nonlocal Variational Problems. <i>SIAM Journal on Numerical Analysis</i> , 2015 , 53, 762-781	2.4	20
194	Fast Explicit Integration Factor Methods for Semilinear Parabolic Equations. <i>Journal of Scientific Computing</i> , 2015 , 62, 431-455	2.3	51
193	Optimization of Subdivision Invariant Tetrahedra. <i>International Journal of Computational Geometry and Applications</i> , 2015 , 25, 37-56	0.3	2
192	Fast and accurate algorithms for simulating coarsening dynamics of Cahn-Hilliard equations. <i>Computational Materials Science</i> , 2015 , 108, 272-282	3.2	33
191	Fractional Diffusion on Bounded Domains. <i>Fractional Calculus and Applied Analysis</i> , 2015 , 18, 342-360	2.7	67
190	On the variational limit of a class of nonlocal functionals related to peridynamics. <i>Nonlinearity</i> , 2015 , 28, 3999-4035	1.7	39
189	Nonlocal convection-diffusion problems and finite element approximations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 289, 60-78	5.7	26
188	Integral approximations to classical diffusion and smoothed particle hydrodynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 286, 216-229	5.7	15
187	Multiscale analysis of linearized peridynamics. <i>Communications in Mathematical Sciences</i> , 2015 , 13, 1193-1218	1.2	2
186	Robust Discretization of Nonlocal Models Related to Peridynamics. <i>Lecture Notes in Computational Science and Engineering</i> , 2015 , 97-113	0.3	6
185	Constraint-Free Adaptive FEMs on Quadrilateral Nonconforming Meshes. <i>Journal of Scientific Computing</i> , 2014 , 59, 53-79	2.3	1
184	Asymptotically Compatible Schemes and Applications to Robust Discretization of Nonlocal Models. <i>SIAM Journal on Numerical Analysis</i> , 2014 , 52, 1641-1665	2.4	103
183	Effects of nozzle-strut integrated design concept on the subsonic turbine stage flowfield. <i>Journal of Thermal Science</i> , 2014 , 23, 494-504	1.9	2
182	On balanced moving mesh methods. <i>Journal of Computational and Applied Mathematics</i> , 2014 , 265, 255-263	1.2	5

181	Linear finite element superconvergence on simplicial meshes. <i>Mathematics of Computation</i> , 2014 , 83, 2161-2185	1.6	10
180	Finding Critical Nuclei in Phase Transformations by Shrinking Dimer Dynamics and its Variants. <i>Communications in Computational Physics</i> , 2014 , 16, 781-798	2.4	6
179	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	52
178	Asymptotically Compatible Schemes for Peridynamics Based on Numerical Quadratures 2014 ,		7
177	Coarsening Mechanism for Systems Governed by the Cahn–Hilliard Equation with Degenerate Diffusion Mobility. <i>Multiscale Modeling and Simulation</i> , 2014 , 12, 1870-1889	1.8	29
176	Error estimates for approximations of a gradient dynamics for phase field elastic bending energy of vesicle membrane deformation. <i>Mathematical Methods in the Applied Sciences</i> , 2014 , 37, 913-930	2.3	2
175	Nonlocal Constrained Value Problems for a Linear Peridynamic Navier Equation. <i>Journal of Elasticity</i> , 2014 , 116, 27-51	1.5	72
174	Nonlocal convection-diffusion volume-constrained problems and jump processes. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2014 , 19, 373-389	1.3	32
173	Analysis of the Volume-Constrained Peridynamic Navier Equation of Linear Elasticity. <i>Journal of Elasticity</i> , 2013 , 113, 193-217	1.5	64
172	Abstract principal component analysis. <i>Science China Mathematics</i> , 2013 , 56, 2783-2798	0.8	3
171	Analysis and Comparison of Different Approximations to Nonlocal Diffusion and Linear Peridynamic Equations. <i>SIAM Journal on Numerical Analysis</i> , 2013 , 51, 3458-3482	2.4	120
170	A variance-estimation-based stopping rule for symbolic dynamic filtering. <i>Signal, Image and Video Processing</i> , 2013 , 7, 189-195	1.6	
169	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	3.5	244
168	A Convergent Adaptive Finite Element Algorithm for Nonlocal Diffusion and Peridynamic Models. <i>SIAM Journal on Numerical Analysis</i> , 2013 , 51, 1211-1234	2.4	35
167	A posteriori error analysis of finite element method for linear nonlocal diffusion and peridynamic models. <i>Mathematics of Computation</i> , 2013 , 82, 1889-1922	1.6	49
166	Mesh dependent stability and condition number estimates for finite element approximations of parabolic problems. <i>Mathematics of Computation</i> , 2013 , 83, 37-64	1.6	6
165	Retrieving Topological Information of Implicitly Represented Diffuse Interfaces with Adaptive Finite Element Discretization. <i>Communications in Computational Physics</i> , 2013 , 13, 1209-1226	2.4	
164	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	1.3	46

163	Constrained shrinking dimer dynamics for saddle point search with constraints. <i>Journal of Computational Physics</i> , 2012 , 231, 4745-4758	4.1	18
162	A New Approach for a Nonlocal, Nonlinear Conservation Law. <i>SIAM Journal on Applied Mathematics</i> , 2012 , 72, 464-487	1.8	52
161	Shrinking Dimer Dynamics and Its Applications to Saddle Point Search. <i>SIAM Journal on Numerical Analysis</i> , 2012 , 50, 1899-1921	2.4	38
160	Motion of Interfaces Governed by the Cahn--Hilliard Equation with Highly Disparate Diffusion Mobility. <i>SIAM Journal on Applied Mathematics</i> , 2012 , 72, 1818-1841	1.8	30
159	Robust modeling of constant mean curvature surfaces. <i>ACM Transactions on Graphics</i> , 2012 , 31, 1-11	7.6	28
158	Analysis and Approximation of Nonlocal Diffusion Problems with Volume Constraints. <i>SIAM Review</i> , 2012 , 54, 667-696	7.4	316
157	Numerical investigation of disc heat transfer with a novel fin-like structure. <i>Science China Technological Sciences</i> , 2012 , 55, 1050-1056	3.5	2
156	Design performance evaluation and vortex structure investigation of different S-shaped intermediate turbine ducts. <i>Science China Technological Sciences</i> , 2012 , 55, 3510-3520	3.5	4
155	A Hybrid Implicit-Explicit Adaptive Multirate Numerical Scheme for Time-Dependent Equations. <i>Journal of Scientific Computing</i> , 2012 , 51, 135-157	2.3	3
154	Evaluating microstructural parameters of three-dimensional grains generated by phase-field simulation or other voxel-based techniques. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2012 , 20, 075009	2	9
153	Diffuse interface model of multicomponent vesicle adhesion and fusion. <i>Physical Review E</i> , 2011 , 84, 011903	2.4	8
152	Phase field calculus, curvature-dependent energies, and vesicle membranes. <i>Philosophical Magazine</i> , 2011 , 91, 165-181	1.6	15
151	Mathematical analysis for the peridynamic nonlocal continuum theory. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2011 , 45, 217-234	1.8	81
150	Convergent Adaptive Finite Element Method Based on Centroidal Voronoi Tessellations and Superconvergence. <i>Communications in Computational Physics</i> , 2011 , 10, 339-370	2.4	11
149	Adaptive finite element methods for elliptic equations over hierarchical T-meshes. <i>Journal of Computational and Applied Mathematics</i> , 2011 , 236, 878-891	2.4	23
148	Mesh-dependent stability for finite element approximations of parabolic equations with mass lumping. <i>Journal of Computational and Applied Mathematics</i> , 2011 , 236, 801-811	2.4	6
147	Analysis of a Stochastic Implicit Interface Model for an Immersed Elastic Surface in a Fluctuating Fluid. <i>Archive for Rational Mechanics and Analysis</i> , 2011 , 199, 329-352	2.3	5
146	Finite element approximation of the CahnHilliard equation on surfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011 , 200, 2458-2470	5.7	40

145	Computational investigation of blade slotting on a high-load low-pressure turbine profile at various reynolds numbers: Part I Slotting scheme verification. <i>Journal of Thermal Science</i> , 2011 , 20, 13-20	1.9	5
144	Computational investigation of blade slotting on a high-load low-pressure turbine profile at various reynolds numbers: Part II Optimization of slotting position. <i>Journal of Thermal Science</i> , 2011 , 20, 21-25	1.9	3
143	On the stochastic immersed boundary method with an implicit interface formulation. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2011 , 15, 373-389	1.3	2
142	Asymptotic analysis of a diffuse interface relaxation to a nonlocal optimal partition problem. <i>Discrete and Continuous Dynamical Systems</i> , 2011 , 29, 1443-1461	2	
141	Advances in Studies and Applications of Centroidal Voronoi Tessellations. <i>Numerical Mathematics</i> , 2010 , 3, 119-142	1.5	66
140	Adhesion of multicomponent vesicle membranes. <i>Physical Review E</i> , 2010 , 81, 041919	2.4	12
139	Mathematical and Numerical Analysis of Linear Peridynamic Models with Nonlocal Boundary Conditions. <i>SIAM Journal on Numerical Analysis</i> , 2010 , 48, 1759-1780	2.4	141
138	Vortex Solutions of the High- κ High-Field Ginzburg-Landau Model with an Applied Current. <i>SIAM Journal on Mathematical Analysis</i> , 2010 , 42, 2368-2401	1.7	6
137	Simultaneous Prediction of Morphologies of a Critical Nucleus and an Equilibrium Precipitate in Solids. <i>Communications in Computational Physics</i> , 2010 , 7, 674-682	2.4	22
136	On Some Probability Density Function Based Moment Closure Approximations of Micro-Macro Models for Viscoelastic Polymeric Fluids. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010 , 7, 756-765	0.3	7
135	Application of Population Dynamics to Study Heterotypic Cell Aggregations in the Near-Wall Region of a Shear Flow. <i>Cellular and Molecular Bioengineering</i> , 2010 , 3, 3-19	3.9	8
134	Incorporating diffuse-interface nuclei in phase-field simulations. <i>Scripta Materialia</i> , 2010 , 63, 8-11	5.6	30
133	Diffuse-interface approach to predicting morphologies of critical nucleus and equilibrium structure for cubic to tetragonal transformations. <i>Journal of Computational Physics</i> , 2010 , 229, 6574-6584	4.1	15
132	Coarsening Kinetics of a Two Phase Mixture with Highly Disparate Diffusion Mobility. <i>Communications in Computational Physics</i> , 2010 , 8, 249-264	2.4	30
131	An Explicit-Implicit Predictor-Corrector Domain Decomposition Method for Time Dependent Multi-Dimensional Convection Diffusion Equations. <i>Numerical Mathematics</i> , 2009 , 2, 301-325	1.5	16
130	Numerical approximations of a norm-preserving gradient flow and applications to an optimal partition problem. <i>Nonlinearity</i> , 2009 , 22, 67-83	1.7	15
129	An efficient explicit/implicit domain decomposition method for convection-diffusion equations. <i>Numerical Methods for Partial Differential Equations</i> , 2009 , 26, NA-NA	2.5	1
128	A phase field model for vesicle-substrate adhesion. <i>Journal of Computational Physics</i> , 2009 , 228, 7837-7849	4.1	34

127	A finite volume method on general surfaces and its error estimates. <i>Journal of Mathematical Analysis and Applications</i> , 2009 , 352, 645-668	1.1	15
126	Energetic variational approaches in modeling vesicle and fluid interactions. <i>Physica D: Nonlinear Phenomena</i> , 2009 , 238, 923-930	3.3	61
125	On Mesh Geometry and Stiffness Matrix Conditioning for General Finite Element Spaces. <i>SIAM Journal on Numerical Analysis</i> , 2009 , 47, 1421-1444	2.4	34
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- 1 Numerical investigation of blowing ratio, density ratio and axial position of film holes on the vane endwall film cooling effectiveness with upstream step. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, 095441002110165 0.9