

# John W Barrett

## List of Publications by Citations

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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.

133 papers	3,119 citations	32 h-index	47 g-index
136 ext. papers	3,385 ext. citations	2.2 avg, IF	5.47 L-index

#	Paper	IF	Citations
133	Finite Element Approximation of the Cahn–Hilliard Equation with Degenerate Mobility. <i>SIAM Journal on Numerical Analysis</i> , <b>1999</b> , 37, 286-318	2.4	141
132	Fitted and Unfitted Finite-Element Methods for Elliptic Equations with Smooth Interfaces. <i>IMA Journal of Numerical Analysis</i> , <b>1987</b> , 7, 283-300	1.8	98
131	Approximate symmetrization and Petrov-Galerkin methods for diffusion-convection problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1984</b> , 45, 97-122	5.7	98
130	A parametric finite element method for fourth order geometric evolution equations. <i>Journal of Computational Physics</i> , <b>2007</b> , 222, 441-467	4.1	95
129	Finite element approximation of the $p$ -Laplacian. <i>Mathematics of Computation</i> , <b>1993</b> , 61, 523-523	1.6	81
128	Quasi-norm error bounds for the finite element approximation of a non-Newtonian flow. <i>Numerische Mathematik</i> , <b>1994</b> , 68, 437-456	2.2	81
127	Finite element approximation of the Cahn-Hilliard equation with concentration dependent mobility. <i>Mathematics of Computation</i> , <b>1999</b> , 68, 487-518	1.6	79
126	Finite Element Approximation of the Parabolic $p$ -Laplacian. <i>SIAM Journal on Numerical Analysis</i> , <b>1994</b> , 31, 413-428	2.4	79
125	On the parametric finite element approximation of evolving hypersurfaces in $\mathbb{R}^n$ . <i>Journal of Computational Physics</i> , <b>2008</b> , 227, 4281-4307	4.1	65
124	Parametric Approximation of Willmore Flow and Related Geometric Evolution Equations. <i>SIAM Journal of Scientific Computing</i> , <b>2008</b> , 31, 225-253	2.6	62
123	EXISTENCE OF GLOBAL WEAK SOLUTIONS FOR SOME POLYMERIC FLOW MODELS. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2005</b> , 15, 939-983	3.5	62
122	EXISTENCE AND EQUILIBRATION OF GLOBAL WEAK SOLUTIONS TO KINETIC MODELS FOR DILUTE POLYMERS I: FINITELY EXTENSIBLE NONLINEAR BEAD-SPRING CHAINS. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2011</b> , 21, 1211-1289	3.5	59
121	Finite element approximation of the Dirichlet problem using the boundary penalty method. <i>Numerische Mathematik</i> , <b>1986</b> , 49, 343-366	2.2	59
120	Finite element approximation of a fourth order nonlinear degenerate parabolic equation. <i>Numerische Mathematik</i> , <b>1998</b> , 80, 525-556	2.2	57
119	Finite Element Approximation of a Phase Field Model for Void Electromigration. <i>SIAM Journal on Numerical Analysis</i> , <b>2004</b> , 42, 738-772	2.4	56
118	A Remark on the Regularity of the Solutions of the $p$ -Laplacian and Its Application to Their Finite Element Approximation. <i>Journal of Mathematical Analysis and Applications</i> , <b>1993</b> , 178, 470-487	1.1	49
117	On the Variational Approximation of Combined Second and Fourth Order Geometric Evolution Equations. <i>SIAM Journal of Scientific Computing</i> , <b>2007</b> , 29, 1006-1041	2.6	48

116	Existence of Global Weak Solutions to Some Regularized Kinetic Models for Dilute Polymers. <i>Multiscale Modeling and Simulation</i> , <b>2007</b> , 6, 506-546	1.8	47
115	Finite element approximation of a nonlinear cross-diffusion population model. <i>Numerische Mathematik</i> , <b>2004</b> , 98, 195-221	2.2	45
114	On fully practical finite element approximations of degenerate Cahn-Hilliard systems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2001</b> , 35, 713-748	1.8	44
113	Finite element error analysis of a quasi-Newtonian flow obeying the Carreau or power law. <i>Numerische Mathematik</i> , <b>1993</b> , 64, 433-453	2.2	44
112	Finite element approximation of a model for phase separation of a multi-component alloy with non-smooth free energy. <i>Numerische Mathematik</i> , <b>1997</b> , 77, 1-34	2.2	43
111	An error bound for the finite element approximation of the Cahn-Hilliard equation with logarithmic free energy. <i>Numerische Mathematik</i> , <b>1995</b> , 72, 1-20	2.2	42
110	Bean's critical-state model as the $p$ -limit of an evolutionary $\Delta$ -Laplacian equation. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2000</b> , 42, 977-993	1.3	39
109	Finite Element Approximation of The Transport of Reactive Solutes in Porous Media. Part II: Error Estimates for Equilibrium Adsorption Processes. <i>SIAM Journal on Numerical Analysis</i> , <b>1997</b> , 34, 455-479	2.4	38
108	EXISTENCE AND APPROXIMATION OF A (REGULARIZED) OLDROYD-B MODEL. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2011</b> , 21, 1783-1837	3.5	37
107	Numerical computations of faceted pattern formation in snow crystal growth. <i>Physical Review E</i> , <b>2012</b> , 86, 011604	2.4	37
106	EXISTENCE AND EQUILIBRATION OF GLOBAL WEAK SOLUTIONS TO KINETIC MODELS FOR DILUTE POLYMERS II: HOOKEAN-TYPE MODELS. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2012</b> , 22, 1150024	3.5	36
105	A QUASI-VARIATIONAL INEQUALITY PROBLEM IN SUPERCONDUCTIVITY. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2010</b> , 20, 679-706	3.5	35
104	Optimal finite element solutions to diffusion-convection problems in one dimension. <i>International Journal for Numerical Methods in Engineering</i> , <b>1980</b> , 15, 1457-1474	2.4	33
103	The approximation of planar curve evolutions by stable fully implicit finite element schemes that equidistribute. <i>Numerical Methods for Partial Differential Equations</i> , <b>2011</b> , 27, 1-30	2.5	32
102	Finite Element Approximation of the Transport of Reactive Solutes in Porous Media. Part 1: Error Estimates for Nonequilibrium Adsorption Processes. <i>SIAM Journal on Numerical Analysis</i> , <b>1997</b> , 34, 201-224	2.4	32
101	A Finite-element Method for Solving Elliptic Equations with Neumann Data on a Curved Boundary Using Unfitted Meshes. <i>IMA Journal of Numerical Analysis</i> , <b>1984</b> , 4, 309-325	1.8	32
100	A variational formulation of anisotropic geometric evolution equations in higher dimensions. <i>Numerische Mathematik</i> , <b>2008</b> , 109, 1-44	2.2	31
99	Parametric approximation of isotropic and anisotropic elastic flow for closed and open curves. <i>Numerische Mathematik</i> , <b>2012</b> , 120, 489-542	2.2	30

98	Finite element approximation of a sixth order nonlinear degenerate parabolic equation. <i>Numerische Mathematik</i> , <b>2004</b> , 96, 401-434	2.2	30
97	EXISTENCE OF GLOBAL WEAK SOLUTIONS TO DUMBBELL MODELS FOR DILUTE POLYMERS WITH MICROSCOPIC CUT-OFF. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2008</b> , 18, 935-971	3.5	29
96	Finite Element Approximation of Some Degenerate Monotone Quasilinear Elliptic Systems. <i>SIAM Journal on Numerical Analysis</i> , <b>1996</b> , 33, 88-106	2.4	28
95	Existence of global weak solutions to finitely extensible nonlinear bead-spring chain models for dilute polymers with variable density and viscosity. <i>Journal of Differential Equations</i> , <b>2012</b> , 253, 3610-3677 <sup>1</sup>	2.7	27
94	Numerical approximation of gradient flows for closed curves in $\mathbb{R}^d$ . <i>IMA Journal of Numerical Analysis</i> , <b>2010</b> , 30, 4-60	1.8	27
93	Total Flux Estimates for a Finite-Element Approximation of Elliptic Equations. <i>IMA Journal of Numerical Analysis</i> , <b>1987</b> , 7, 129-148	1.8	27
92	An error bound for the finite element approximation of a model for phase separation of a multi-component alloy. <i>IMA Journal of Numerical Analysis</i> , <b>1996</b> , 16, 257-287	1.8	26
91	Numerical computations of the dynamics of fluidic membranes and vesicles. <i>Physical Review E</i> , <b>2015</b> , 92, 052704	2.4	24
90	On stable parametric finite element methods for the Stefan problem and the Mullins-Bekerka problem with applications to dendritic growth. <i>Journal of Computational Physics</i> , <b>2010</b> , 229, 6270-6299	4.1	24
89	Finite Element Approximation of Surfactant Spreading on a Thin Film. <i>SIAM Journal on Numerical Analysis</i> , <b>2003</b> , 41, 1427-1464	2.4	24
88	A stable numerical method for the dynamics of fluidic membranes. <i>Numerische Mathematik</i> , <b>2016</b> , 134, 783-822	2.2	24
87	Convergence of a finite-element approximation of surfactant spreading on a thin film in the presence of van der Waals forces. <i>IMA Journal of Numerical Analysis</i> , <b>2004</b> , 24, 323-363	1.8	23
86	Finite element approximation of a model reaction-diffusion problem with a non-Lipschitz nonlinearity. <i>Numerische Mathematik</i> , <b>1991</b> , 59, 217-242	2.2	23
85	Numerical approximation of anisotropic geometric evolution equations in the plane. <i>IMA Journal of Numerical Analysis</i> , <b>2007</b> , 28, 292-330	1.8	21
84	Parametric approximation of surface clusters driven by isotropic and anisotropic surface energies. <i>Interfaces and Free Boundaries</i> , <b>2010</b> , 187-234	0.7	20
83	A Stable Parametric Finite Element Discretization of Two-Phase Navier-Stokes Flow. <i>Journal of Scientific Computing</i> , <b>2015</b> , 63, 78-117	2.3	19
82	Existence of global weak solutions to compressible isentropic finitely extensible bead-spring chain models for dilute polymers. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2016</b> , 26, 469-568	3.5	19
81	A Convergent and Constraint-Preserving Finite Element Method for the Harmonic Flow into Spheres. <i>SIAM Journal on Numerical Analysis</i> , <b>2007</b> , 45, 905-927	2.4	19

80	Finite element approximation of a model for phase separation of a multi-component alloy with a concentration-dependent mobility matrix. <i>IMA Journal of Numerical Analysis</i> , <b>1998</b> , 18, 287-328	1.8	19
79	Optimal Petrov-Galerkin Methods through Approximate Symmetrization. <i>IMA Journal of Numerical Analysis</i> , <b>1981</b> , 1, 439-468	1.8	19
78	Finite-element approximation of coupled surface and grain boundary motion with applications to thermal grooving and sintering. <i>European Journal of Applied Mathematics</i> , <b>2010</b> , 21, 519-556	1	18
77	Finite element approximation of finitely extensible nonlinear elastic dumbbell models for dilute polymers. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2012</b> , 46, 949-978	1.8	18
76	Finite Element Approximation of a Degenerate Allen-Cahn/Cahn-Hilliard System. <i>SIAM Journal on Numerical Analysis</i> , <b>2002</b> , 39, 1598-1624	2.4	18
75	A further remark on the regularity of the solutions of the p-Laplacian and its applications to their finite element approximation. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>1993</b> , 21, 379-387	1.3	18
74	Existence of large-data finite-energy global weak solutions to a compressible Oldroyd-B model. <i>Communications in Mathematical Sciences</i> , <b>2017</b> , 15, 1265-1323	1	18
73	Eliminating spurious velocities with a stable approximation of viscous incompressible two-phase Stokes flow. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2013</b> , 267, 511-530	5.7	17
72	A Mixed Formulation of the Monge-Kantorovich Equations. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2007</b> , 41, 1041-1060	1.8	17
71	Quasi-norm error bounds for the finite element approximation of some degenerate quasilinear elliptic equations and variational inequalities. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>1994</b> , 28, 725-744	1.8	17
70	A practical finite element approximation of a semi-definite Neumann problem on a curved domain. <i>Numerische Mathematik</i> , <b>1987</b> , 51, 23-36	2.2	17
69	A quasi-variational inequality problem arising in the modeling of growing sandpiles. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2013</b> , 47, 1133-1165	1.8	16
68	An Improved Error Bound for a Lagrange-Galerkin Method for Contaminant Transport with Non-Lipschitzian Adsorption Kinetics. <i>SIAM Journal on Numerical Analysis</i> , <b>1998</b> , 35, 1862-1882	2.4	16
67	Finite element approximation of an Allen-Cahn/Cahn-Hilliard system. <i>IMA Journal of Numerical Analysis</i> , <b>2002</b> , 22, 11-71	1.8	16
66	A priori and a posteriori error bounds for a nonconforming linear finite element approximation of a non-newtonian flow. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>1998</b> , 32, 843-858	1.8	16
65	Higher-Order Regularity for the Solutions of Some Degenerate Quasilinear Elliptic Equations in the Plane. <i>SIAM Journal on Mathematical Analysis</i> , <b>1993</b> , 24, 1522-1536	1.7	16
64	Convergence of a fully discrete finite element method for a degenerate parabolic system modelling nematic liquid crystals with variable degree of orientation. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2006</b> , 40, 175-199	1.8	16
63	Electric field formulation for thin film magnetization problems. <i>Superconductor Science and Technology</i> , <b>2012</b> , 25, 104002	3.1	15

62	Reflections on Dubinskiĭ nonlinear compact embedding theorem. <i>Publications De L'institut Mathematique</i> , <b>2012</b> , 91, 95-110	0.2	15
61	Sandpiles and superconductors: nonconforming linear finite element approximations for mixed formulations of quasi-variational inequalities. <i>IMA Journal of Numerical Analysis</i> , <b>2015</b> , 35, 1-38	1.8	14
60	Stable finite element approximations of two-phase flow with soluble surfactant. <i>Journal of Computational Physics</i> , <b>2015</b> , 297, 530-564	4.1	14
59	Fixed mesh finite element approximations to a free boundary problem for an elliptic equation with an oblique derivative boundary condition. <i>Computers and Mathematics With Applications</i> , <b>1985</b> , 11, 335-345	2.7	14
58	Finite element methods for fourth order axisymmetric geometric evolution equations. <i>Journal of Computational Physics</i> , <b>2019</b> , 376, 733-766	4.1	14
57	Finite element approximation of a phase field model for surface diffusion of voids in a stressed solid. <i>Mathematics of Computation</i> , <b>2005</b> , 75, 7-42	1.6	13
56	Existence of global weak solutions to compressible isentropic finitely extensible nonlinear bead-spring chain models for dilute polymers: The two-dimensional case. <i>Journal of Differential Equations</i> , <b>2016</b> , 261, 592-626	2.1	13
55	Existence of global weak solutions to the kinetic Hookean dumbbell model for incompressible dilute polymeric fluids. <i>Nonlinear Analysis: Real World Applications</i> , <b>2018</b> , 39, 362-395	2.1	12
54	Finite element approximation for the dynamics of fluidic two-phase biomembranes. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2017</b> , 51, 2319-2366	1.8	12
53	Finite Element Approximation of the p-Laplacian. <i>Mathematics of Computation</i> , <b>1993</b> , 61, 523	1.6	12
52	Finite-Element Approximation of Elliptic Equations with a Neumann or Robin Condition on a Curved Boundary. <i>IMA Journal of Numerical Analysis</i> , <b>1988</b> , 8, 321-342	1.8	12
51	Lakes and rivers in the landscape: A quasi-variational inequality approach. <i>Interfaces and Free Boundaries</i> , <b>2014</b> , 16, 269-296	0.7	12
50	Numerical Analysis for a System Coupling Curve Evolution to Reaction Diffusion on the Curve. <i>SIAM Journal on Numerical Analysis</i> , <b>2017</b> , 55, 1080-1100	2.4	11
49	Parametric finite element approximations of curvature-driven interface evolutions. <i>Handbook of Numerical Analysis</i> , <b>2020</b> , 21, 275-423	1	11
48	ELASTIC FLOW WITH JUNCTIONS: VARIATIONAL APPROXIMATION AND APPLICATIONS TO NONLINEAR SPLINES. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2012</b> , 22, 1250037	3.5	11
47	Transport current and magnetization problems for thin type-II superconducting films. <i>Superconductor Science and Technology</i> , <b>2013</b> , 26, 105009	3.1	11
46	Stable phase field approximations of anisotropic solidification. <i>IMA Journal of Numerical Analysis</i> , <b>2014</b> , 34, 1289-1327	1.8	10
45	On p-Harmonic Map Heat Flows for Simple Groups. <i>SIAM Journal on Mathematical Analysis</i> , <b>2008</b> , 40, 1471-1498	1.7	10



44	An improved error bound for a finite element approximation of a model for phase separation of a multi-component alloy. <i>IMA Journal of Numerical Analysis</i> , <b>1999</b> , 19, 147-168	1.8	10
43	Optimal Recovery in the Finite-Element Method, Part 2: Defect Correction for Ordinary Differential Equations. <i>IMA Journal of Numerical Analysis</i> , <b>1988</b> , 8, 527-540	1.8	10
42	Variational discretization of axisymmetric curvature flows. <i>Numerische Mathematik</i> , <b>2019</b> , 141, 791-837	2.2	9
41	Error bounds for the finite element approximation of a degenerate quasilinear parabolic variational inequality. <i>Advances in Computational Mathematics</i> , <b>1993</b> , 1, 223-239	1.6	9
40	Optimal Recovery in the Finite-Element Method, Part 1: Recovery from Weighted L2 Fits. <i>IMA Journal of Numerical Analysis</i> , <b>1988</b> , 8, 149-184	1.8	9
39	Stable numerical approximation of two-phase flow with a Boussinesq-Brinkman surface fluid. <i>Communications in Mathematical Sciences</i> , <b>2015</b> , 13, 1829-1874	1	9
38	Phase Field Models Versus Parametric Front Tracking Methods: Are They Accurate and Computationally Efficient?. <i>Communications in Computational Physics</i> , <b>2014</b> , 15, 506-555	2.4	8
37	Finite element approximation of kinetic dilute polymer models with microscopic cut-off. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2011</b> , 45, 39-89	1.8	8
36	Finite Element Approximation of Soluble Surfactant Spreading on a Thin Film. <i>SIAM Journal on Numerical Analysis</i> , <b>2006</b> , 44, 1218-1247	2.4	8
35	Finite element approximation for the dynamics of asymmetric fluidic biomembranes. <i>Mathematics of Computation</i> , <b>2016</b> , 86, 1037-1069	1.6	7
34	Computational Parametric Willmore Flow with Spontaneous Curvature and Area Difference Elasticity Effects. <i>SIAM Journal on Numerical Analysis</i> , <b>2016</b> , 54, 1732-1762	2.4	7
33	On the stable discretization of strongly anisotropic phase field models with applications to crystal growth. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , <b>2013</b> , 93, 719-732	1	7
32	FINITE ELEMENT APPROXIMATION OF A MODEL FOR PHASE SEPARATION OF A MULTI-COMPONENT ALLOY WITH NONSMOOTH FREE ENERGY AND A CONCENTRATION DEPENDENT MOBILITY MATRIX. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>1999</b> , 09, 627-663	3.5	7
31	Finite element approximation of the volume-matching problem. <i>Numerische Mathematik</i> , <b>1991</b> , 60, 291-313	3.1	7
30	On the Energy-Based Variational Model for Vector Magnetic Hysteresis. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-11	2	6
29	3D modeling of magnetic atom traps on type-II superconductor chips. <i>Superconductor Science and Technology</i> , <b>2014</b> , 27, 124004	3.1	6
28	Quasi-norm error bounds for the finite element approximation of some degenerate quasilinear parabolic equations and variational inequalities. <i>Numerical Functional Analysis and Optimization</i> , <b>1995</b> , 16, 1309-1321	1	6
27	Gradient flow dynamics of two-phase biomembranes: Sharp interface variational formulation and finite element approximation. <i>SMAI Journal of Computational Mathematics</i> , <b>2004</b> , 4, 151-195		6

26	Existence and approximation of a mixed formulation for thin film magnetization problems in superconductivity. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2014</b> , 24, 991-1015	3.5	5
25	EXISTENCE, UNIQUENESS AND APPROXIMATION OF A DOUBLY-DEGENERATE NONLINEAR PARABOLIC SYSTEM MODELLING BACTERIAL EVOLUTION. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2007</b> , 17, 1095-1127	3.5	5
24	Finite element approximation of a Stefan problem with degenerate Joule heating. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2004</b> , 38, 633-652	1.8	5
23	An improved error bound for a finite element approximation of a model for phase separation of a multi-component alloy with a concentration dependent mobility matrix. <i>Numerische Mathematik</i> , <b>2001</b> , 88, 255-297	2.2	5
22	Finite Element Approximation of a Rigid Punch Indenting a Membrane. <i>IMA Journal of Numerical Analysis</i> , <b>1991</b> , 11, 579-594	1.8	5
21	A finite element error analysis for axisymmetric mean curvature flow. <i>IMA Journal of Numerical Analysis</i> , <b>2021</b> , 41, 1641-1667	1.8	5
20	Numerical approximation of corotational dumbbell models for dilute polymers. <i>IMA Journal of Numerical Analysis</i> , <b>2009</b> , 29, 937-959	1.8	4
19	On sharp interface limits of Allen--Cahn/Cahn--Hilliard variational inequalities. <i>Discrete and Continuous Dynamical Systems - Series S</i> , <b>2008</b> , 1, 1-14	2.8	4
18	Finite element approximation of a free boundary problem arising in the theory of liquid drops and plasma physics. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>1991</b> , 25, 213-252	1.8	4
17	Stable Discretizations of Elastic Flow in Riemannian Manifolds. <i>SIAM Journal on Numerical Analysis</i> , <b>2019</b> , 57, 1987-2018	2.4	4
16	Numerical approximation of curve evolutions in Riemannian manifolds. <i>IMA Journal of Numerical Analysis</i> , <b>2020</b> , 40, 1601-1651	1.8	4
15	Finite element approximation of the FENE-P model. <i>IMA Journal of Numerical Analysis</i> , <b>2018</b> , 38, 1599-1660		3
14	Finite-Element Approximation of a Plasma Equilibrium Problem. <i>IMA Journal of Numerical Analysis</i> , <b>1989</b> , 9, 443-464	1.8	3
13	An optimal error bound for a finite element approximation of a model for phase separation of a multi-component alloy with non-smooth free energy. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>1999</b> , 33, 971-987	1.8	3
12	Existence of large-data global-in-time finite-energy weak solutions to a compressible FENE-P model. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2018</b> , 28, 1929-2000	3.5	2
11	On the stable numerical approximation of two-phase flow with insoluble surfactant. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2014</b> ,	1.8	2
10	Finite element approximation of a two-layered liquid film in the presence of insoluble surfactants. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2008</b> , 42, 749-775	1.8	2
9	Stable approximations for axisymmetric Willmore flow for closed and open surfaces. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2021</b> , 55, 833-885	1.8	2



8	The finite element approximation of a coupled reaction-diffusion problem with non-Lipschitz nonlinearities. <i>Numerische Mathematik</i> , <b>1995</b> , 71, 135-157	2.2	1
7	Remarks concerning a free boundary problem arising in the theory of liquid drops and in plasma physics. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , <b>1989</b> , 111, 169-181	1	1
6	Total flux estimates for a finite element approximation of the Dirichlet problem using the boundary penalty method. <i>Numerische Mathematik</i> , <b>1990</b> , 57, 351-363	2.2	1
5	Corrigendum to: Finite element approximation of the FENE-P model. <i>IMA Journal of Numerical Analysis</i> , <b>2018</b> , 38, 2166-2168	1.8	1
4	Finite element approximation of a semilinear elliptic problem with a singular nonlinearity. <i>Numerische Mathematik</i> , <b>1999</b> , 82, 21-56	2.2	
3	Finite element approximation of a model vortex problem. <i>Numerical Functional Analysis and Optimization</i> , <b>1995</b> , 16, 261-285	1	
2	Total Flux Estimates for a Finite-Element Approximation of Parabolic Equations. <i>IMA Journal of Numerical Analysis</i> , <b>1986</b> , 6, 253-264	1.8	
1	A practical phase field method for an elliptic surface PDE. <i>IMA Journal of Numerical Analysis</i> , <b>2021</b> , 41, 1668-1695	1.8	