# John W Barrett

## List of Publications by Year in Descending Order



| | | | |
|---|---|---|---|
| 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 | Stable approximations for axisymmetric Willmore flow for closed and open surfaces. *ESAIM: Mathematical Modelling and Numerical Analysis*, **2021**, 55, 833-885 | 1.8 | 2 |
| 132 | A finite element error analysis for axisymmetric mean curvature flow. *IMA Journal of Numerical Analysis*, **2021**, 41, 1641-1667 | 1.8 | 5 |
| 131 | A practical phase field method for an elliptic surface PDE. *IMA Journal of Numerical Analysis*, **2021**, 41, 1668-1695 | 1.8 | |
| 130 | Parametric finite element approximations of curvature-driven interface evolutions. *Handbook of Numerical Analysis*, **2020**, 21, 275-423 | 1 | 11 |
| 129 | Numerical approximation of curve evolutions in Riemannian manifolds. *IMA Journal of Numerical Analysis*, **2020**, 40, 1601-1651 | 1.8 | 4 |
| 128 | Variational discretization of axisymmetric curvature flows. *Numerische Mathematik*, **2019**, 141, 791-837 | 2.2 | 9 |
| 127 | Stable Discretizations of Elastic Flow in Riemannian Manifolds. *SIAM Journal on Numerical Analysis*, **2019**, 57, 1987-2018 | 2.4 | 4 |
| 126 | Finite element methods for fourth order axisymmetric geometric evolution equations. *Journal of Computational Physics*, **2019**, 376, 733-766 | 4.1 | 14 |
| 125 | Existence of global weak solutions to the kinetic Hookean dumbbell model for incompressible dilute polymeric fluids. *Nonlinear Analysis: Real World Applications*, **2018**, 39, 362-395 | 2.1 | 12 |
| 124 | Finite element approximation of the FENE-P model. *IMA Journal of Numerical Analysis*, **2018**, 38, 1599-1660 | 2.0 | 3 |
| 123 | Existence of large-data global-in-time finite-energy weak solutions to a compressible FENE-P model. *Mathematical Models and Methods in Applied Sciences*, **2018**, 28, 1929-2000 | 3.5 | 2 |
| 122 | Corrigendum to: Finite element approximation of the FENE-P model. *IMA Journal of Numerical Analysis*, **2018**, 38, 2166-2168 | 1.8 | 1 |
| 121 | Numerical Analysis for a System Coupling Curve Evolution to Reaction Diffusion on the Curve. *SIAM Journal on Numerical Analysis*, **2017**, 55, 1080-1100 | 2.4 | 11 |
| 120 | Finite element approximation for the dynamics of fluidic two-phase biomembranes. *ESAIM: Mathematical Modelling and Numerical Analysis*, **2017**, 51, 2319-2366 | 1.8 | 12 |
| 119 | Existence of large-data finite-energy global weak solutions to a compressible Oldroyd-B model. *Communications in Mathematical Sciences*, **2017**, 15, 1265-1323 | 1 | 18 |
| 118 | Finite element approximation for the dynamics of asymmetric fluidic biomembranes. *Mathematics of Computation*, **2016**, 86, 1037-1069 | 1.6 | 7 |
| 117 | On the Energy-Based Variational Model for Vector Magnetic Hysteresis. *IEEE Transactions on Magnetics*, **2016**, 52, 1-11 | 2 | 6 |

| | | | |
|---|---|---|---|
| 116 | Computational Parametric Willmore Flow with Spontaneous Curvature and Area Difference Elasticity Effects. *SIAM Journal on Numerical Analysis*, **2016**, 54, 1732-1762 | 2.4 | 7 |
| 115 | Existence of global weak solutions to compressible isentropic finitely extensible bead-spring chain models for dilute polymers. *Mathematical Models and Methods in Applied Sciences*, **2016**, 26, 469-568 | 3.5 | 19 |
| 114 | A stable numerical method for the dynamics of fluidic membranes. *Numerische Mathematik*, **2016**, 134, 783-822 | 2.2 | 24 |
| 113 | Existence of global weak solutions to compressible isentropic finitely extensible nonlinear bead–spring chain models for dilute polymers: The two-dimensional case. *Journal of Differential Equations*, **2016**, 261, 592-626 | 2.1 | 13 |
| 112 | A Stable Parametric Finite Element Discretization of Two-Phase Navier–Stokes Flow. *Journal of Scientific Computing*, **2015**, 63, 78-117 | 2.3 | 19 |
| 111 | Numerical computations of the dynamics of fluidic membranes and vesicles. *Physical Review E*, **2015**, 92, 052704 | 2.4 | 24 |
| 110 | Sandpiles and superconductors: nonconforming linear finite element approximations for mixed formulations of quasi-variational inequalities. *IMA Journal of Numerical Analysis*, **2015**, 35, 1-38 | 1.8 | 14 |
| 109 | Stable finite element approximations of two-phase flow with soluble surfactant. *Journal of Computational Physics*, **2015**, 297, 530-564 | 4.1 | 14 |
| 108 | Stable numerical approximation of two-phase flow with a Boussinesq–Scriven surface fluid. *Communications in Mathematical Sciences*, **2015**, 13, 1829-1874 | 1 | 9 |
| 107 | 3D modeling of magnetic atom traps on type-II superconductor chips. *Superconductor Science and Technology*, **2014**, 27, 124004 | 3.1 | 6 |
| 106 | Phase Field Models Versus Parametric Front Tracking Methods: Are They Accurate and Computationally Efficient?. *Communications in Computational Physics*, **2014**, 15, 506-555 | 2.4 | 8 |
| 105 | On the stable numerical approximation of two-phase flow with insoluble surfactant. *ESAIM: Mathematical Modelling and Numerical Analysis*, **2014**, | 1.8 | 2 |
| 104 | Existence and approximation of a mixed formulation for thin film magnetization problems in superconductivity. *Mathematical Models and Methods in Applied Sciences*, **2014**, 24, 991-1015 | 3.5 | 5 |
| 103 | Stable phase field approximations of anisotropic solidification. *IMA Journal of Numerical Analysis*, **2014**, 34, 1289-1327 | 1.8 | 10 |
| 102 | Lakes and rivers in the landscape: A quasi-variational inequality approach. *Interfaces and Free Boundaries*, **2014**, 16, 269-296 | 0.7 | 12 |
| 101 | Eliminating spurious velocities with a stable approximation of viscous incompressible two-phase Stokes flow. *Computer Methods in Applied Mechanics and Engineering*, **2013**, 267, 511-530 | 5.7 | 17 |
| 100 | On the stable discretization of strongly anisotropic phase field models with applications to crystal growth. *ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik*, **2013**, 93, 719-732 | 1 | 7 |
| 99 | Transport current and magnetization problems for thin type-II superconducting films. *Superconductor Science and Technology*, **2013**, 26, 105009 | 3.1 | 11 |

| | | | |
|---|---|---|---|
| 98 | A quasi-variational inequality problem arising in the modeling of growing sandpiles. *ESAIM: Mathematical Modelling and Numerical Analysis*, **2013**, 47, 1133-1165 | 1.8 | 16 |
| 97 | Parametric approximation of isotropic and anisotropic elastic flow for closed and open curves. *Numerische Mathematik*, **2012**, 120, 489-542 | 2.2 | 30 |
| 96 | ELASTIC FLOW WITH JUNCTIONS: VARIATIONAL APPROXIMATION AND APPLICATIONS TO NONLINEAR SPLINES. *Mathematical Models and Methods in Applied Sciences*, **2012**, 22, 1250037 | 3.5 | 11 |
| 95 | Existence of global weak solutions to finitely extensible nonlinear bead–spring chain models for dilute polymers with variable density and viscosity. *Journal of Differential Equations*, **2012**, 253, 3610-3677 | 2.1 | 27 |
| 94 | Electric field formulation for thin film magnetization problems. *Superconductor Science and Technology*, **2012**, 25, 104002 | 3.1 | 15 |
| 93 | Numerical computations of faceted pattern formation in snow crystal growth. *Physical Review E*, **2012**, 86, 011604 | 2.4 | 37 |
| 92 | EXISTENCE AND EQUILIBRATION OF GLOBAL WEAK SOLUTIONS TO KINETIC MODELS FOR DILUTE POLYMERS II: HOOKEAN-TYPE MODELS. *Mathematical Models and Methods in Applied Sciences*, **2012**, 22, 1150024 | 3.5 | 36 |
| 91 | Finite element approximation of finitely extensible nonlinear elastic dumbbell models for dilute polymers. *ESAIM: Mathematical Modelling and Numerical Analysis*, **2012**, 46, 949-978 | 1.8 | 18 |
| 90 | Reflections on Dubinskiĭ nonlinear compact embedding theorem. *Publications De L'Institut Mathematique*, **2012**, 91, 95-110 | 0.2 | 15 |
| 89 | EXISTENCE AND APPROXIMATION OF A (REGULARIZED) OLDROYD-B MODEL. *Mathematical Models and Methods in Applied Sciences*, **2011**, 21, 1783-1837 | 3.5 | 37 |
| 88 | Finite element approximation of kinetic dilute polymer models with microscopic cut-off. *ESAIM: Mathematical Modelling and Numerical Analysis*, **2011**, 45, 39-89 | 1.8 | 8 |
| 87 | The approximation of planar curve evolutions by stable fully implicit finite element schemes that equidistribute. *Numerical Methods for Partial Differential Equations*, **2011**, 27, 1-30 | 2.5 | 32 |
| 86 | EXISTENCE AND EQUILIBRATION OF GLOBAL WEAK SOLUTIONS TO KINETIC MODELS FOR DILUTE POLYMERS I: FINITELY EXTENSIBLE NONLINEAR BEAD-SPRING CHAINS. *Mathematical Models and Methods in Applied Sciences*, **2011**, 21, 1211-1289 | 3.5 | 59 |
| 85 | Numerical approximation of gradient flows for closed curves in Rd. *IMA Journal of Numerical Analysis*, **2010**, 30, 4-60 | 1.8 | 27 |
| 84 | A QUASI-VARIATIONAL INEQUALITY PROBLEM IN SUPERCONDUCTIVITY. *Mathematical Models and Methods in Applied Sciences*, **2010**, 20, 679-706 | 3.5 | 35 |
| 83 | Finite-element approximation of coupled surface and grain boundary motion with applications to thermal grooving and sintering. *European Journal of Applied Mathematics*, **2010**, 21, 519-556 | 1 | 18 |
| 82 | Parametric approximation of surface clusters driven by isotropic and anisotropic surface energies. *Interfaces and Free Boundaries*, **2010**, 187-234 | 0.7 | 20 |
| 81 | On stable parametric finite element methods for the Stefan problem and the Mullins–Sekerka problem with applications to dendritic growth. *Journal of Computational Physics*, **2010**, 229, 6270-6299 | 4.1 | 24 |

| | | | |
|---|---|---|---|
| 80 | Numerical approximation of corotational dumbbell models for dilute polymers. *IMA Journal of Numerical Analysis*, **2009**, 29, 937-959 | 1.8 | 4 |
| 79 | Onp-Harmonic Map Heat Flows for $1leqp. *SIAM Journal on Mathematical Analysis*, **2008**, 40, 1471-1498 | 1.7 | 10 |
| 78 | Parametric Approximation of Willmore Flow and Related Geometric Evolution Equations. *SIAM Journal of Scientific Computing*, **2008**, 31, 225-253 | 2.6 | 62 |
| 77 | EXISTENCE OF GLOBAL WEAK SOLUTIONS TO DUMBBELL MODELS FOR DILUTE POLYMERS WITH MICROSCOPIC CUT-OFF. *Mathematical Models and Methods in Applied Sciences*, **2008**, 18, 935-971 | 3.5 | 29 |
| 76 | Finite element approximation of a two-layered liquid film in the presence of insoluble surfactants. *ESAIM: Mathematical Modelling and Numerical Analysis*, **2008**, 42, 749-775 | 1.8 | 2 |
| 75 | A variational formulation of anisotropic geometric evolution equations in higher dimensions. *Numerische Mathematik*, **2008**, 109, 1-44 | 2.2 | 31 |
| 74 | On the parametric finite element approximation of evolving hypersurfaces in . *Journal of Computational Physics*, **2008**, 227, 4281-4307 | 4.1 | 65 |
| 73 | On sharp interface limits of Allen--Cahn/Cahn--Hilliard variational inequalities. *Discrete and Continuous Dynamical Systems - Series S*, **2008**, 1, 1-14 | 2.8 | 4 |
| 72 | A Mixed Formulation of the Monge-Kantorovich Equations. *ESAIM: Mathematical Modelling and Numerical Analysis*, **2007**, 41, 1041-1060 | 1.8 | 17 |
| 71 | A parametric finite element method for fourth order geometric evolution equations. *Journal of Computational Physics*, **2007**, 222, 441-467 | 4.1 | 95 |
| 70 | EXISTENCE, UNIQUENESS AND APPROXIMATION OF A DOUBLY-DEGENERATE NONLINEAR PARABOLIC SYSTEM MODELLING BACTERIAL EVOLUTION. *Mathematical Models and Methods in Applied Sciences*, **2007**, 17, 1095-1127 | 3.5 | 5 |
| 69 | Numerical approximation of anisotropic geometric evolution equations in the plane. *IMA Journal of Numerical Analysis*, **2007**, 28, 292-330 | 1.8 | 21 |
| 68 | Existence of Global Weak Solutions to Some Regularized Kinetic Models for Dilute Polymers. *Multiscale Modeling and Simulation*, **2007**, 6, 506-546 | 1.8 | 47 |
| 67 | On the Variational Approximation of Combined Second and Fourth Order Geometric Evolution Equations. *SIAM Journal of Scientific Computing*, **2007**, 29, 1006-1041 | 2.6 | 48 |
| 66 | A Convergent and Constraint-Preserving Finite Element Method for thep-Harmonic Flow into Spheres. *SIAM Journal on Numerical Analysis*, **2007**, 45, 905-927 | 2.4 | 19 |
| 65 | Finite Element Approximation of Soluble Surfactant Spreading on a Thin Film. *SIAM Journal on Numerical Analysis*, **2006**, 44, 1218-1247 | 2.4 | 8 |
| 64 | Convergence of a fully discrete finite element method for a degenerate parabolic system modelling nematic liquid crystals with variable degree of orientation. *ESAIM: Mathematical Modelling and Numerical Analysis*, **2006**, 40, 175-199 | 1.8 | 16 |
| 63 | Finite element approximation of a phase field model for surface diffusion of voids in a stressed solid. *Mathematics of Computation*, **2005**, 75, 7-42 | 1.6 | 13 |

| | | | |
|---|---|---|---|
| 62 | EXISTENCE OF GLOBAL WEAK SOLUTIONS FOR SOME POLYMERIC FLOW MODELS. *Mathematical Models and Methods in Applied Sciences*, **2005**, 15, 939-983 | 3.5 | 62 |
| 61 | Convergence of a finite-element approximation of surfactant spreading on a thin film in the presence of van der Waals forces. *IMA Journal of Numerical Analysis*, **2004**, 24, 323-363 | 1.8 | 23 |
| 60 | Finite element approximation of a sixth order nonlinear degenerate parabolic equation. *Numerische Mathematik*, **2004**, 96, 401-434 | 2.2 | 30 |
| 59 | Finite element approximation of a nonlinear cross-diffusion population model. *Numerische Mathematik*, **2004**, 98, 195-221 | 2.2 | 45 |
| 58 | Finite Element Approximation of a Phase Field Model for Void Electromigration. *SIAM Journal on Numerical Analysis*, **2004**, 42, 738-772 | 2.4 | 56 |
| 57 | Finite element approximation of a Stefan problem with degenerate Joule heating. *ESAIM: Mathematical Modelling and Numerical Analysis*, **2004**, 38, 633-652 | 1.8 | 5 |
| 56 | Finite Element Approximation of Surfactant Spreading on a Thin Film. *SIAM Journal on Numerical Analysis*, **2003**, 41, 1427-1464 | 2.4 | 24 |
| 55 | Finite element approximation of an Allen-Cahn/Cahn-Hilliard system. *IMA Journal of Numerical Analysis*, **2002**, 22, 11-71 | 1.8 | 16 |
| 54 | Finite Element Approximation of a Degenerate Allen--Cahn/Cahn--Hilliard System. *SIAM Journal on Numerical Analysis*, **2002**, 39, 1598-1624 | 2.4 | 18 |
| 53 | On fully practical finite element approximations of degenerate Cahn-Hilliard systems. *ESAIM: Mathematical Modelling and Numerical Analysis*, **2001**, 35, 713-748 | 1.8 | 44 |
| 52 | 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. *Numerische Mathematik*, **2001**, 88, 255-297 | 2.2 | 5 |
| 51 | Bean's critical-state model as the p-∞ limit of an evolutionary -Laplacian equation. *Nonlinear Analysis: Theory, Methods & Applications*, **2000**, 42, 977-993 | 1.3 | 39 |
| 50 | An improved error bound for a finite element approximation of a model for phase separation of a multi-component alloy. *IMA Journal of Numerical Analysis*, **1999**, 19, 147-168 | 1.8 | 10 |
| 49 | FINITE ELEMENT APPROXIMATION OF A MODEL FOR PHASE SEPARATION OF A MULTI-COMPONENT ALLOY WITH NONSMOOTH FREE ENERGY AND A CONCENTRATION DEPENDENT MOBILITY MATRIX. *Mathematical Models and Methods in Applied Sciences*, **1999**, 09, 627-663 | 3.5 | 7 |
| 48 | Finite element approximation of a semilinear elliptic problem with a singular nonlinearity. *Numerische Mathematik*, **1999**, 82, 21-56 | 2.2 | |
| 47 | Finite Element Approximation of the Cahn--Hilliard Equation with Degenerate Mobility. *SIAM Journal on Numerical Analysis*, **1999**, 37, 286-318 | 2.4 | 141 |
| 46 | Finite element approximation of the Cahn-Hilliard equation with concentration dependent mobility. *Mathematics of Computation*, **1999**, 68, 487-518 | 1.6 | 79 |
| 45 | 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. *ESAIM: Mathematical Modelling and Numerical Analysis*, **1999**, 33, 971-987 | 1.8 | 3 |

| | | | |
|---|---|---|---|
| 44 | Finite element approximation of a fourth order nonlinear degenerate parabolic equation. *Numerische Mathematik*, **1998**, 80, 525-556 | 2.2 | 57 |
| 43 | An Improved Error Bound for a Lagrange--Galerkin Method for Contaminant Transport with Non-Lipschitzian Adsorption Kinetics. *SIAM Journal on Numerical Analysis*, **1998**, 35, 1862-1882 | 2.4 | 16 |
| 42 | Finite element approximation of a model for phase separation of a multi-component alloy with a concentration-dependent mobility matrix. *IMA Journal of Numerical Analysis*, **1998**, 18, 287-328 | 1.8 | 19 |
| 41 | A priori and a posteriori error bounds for a nonconforming linear finite element approximation of a non-newtonian flow. *ESAIM: Mathematical Modelling and Numerical Analysis*, **1998**, 32, 843-858 | 1.8 | 16 |
| 40 | Finite Element Approximation of the Transport of Reactive Solutes in Porous Media. Part 1: Error Estimates for Nonequilibrium Adsorption Processes. *SIAM Journal on Numerical Analysis*, **1997**, 34, 201-227 | 2.4 | 32 |
| 39 | Finite Element Approximation of The Transport of Reactive Solutes in Porous Media. Part II: Error Estimates for Equilibrium Adsorption Processes. *SIAM Journal on Numerical Analysis*, **1997**, 34, 455-479 | 2.4 | 38 |
| 38 | Finite element approximation of a model for phase separation of a multi-component alloy with non-smooth free energy. *Numerische Mathematik*, **1997**, 77, 1-34 | 2.2 | 43 |
| 37 | An error bound for the finite element approximation of a model for phase separation of a multi-component alloy. *IMA Journal of Numerical Analysis*, **1996**, 16, 257-287 | 1.8 | 26 |
| 36 | Finite Element Approximation of Some Degenerate Monotone Quasilinear Elliptic Systems. *SIAM Journal on Numerical Analysis*, **1996**, 33, 88-106 | 2.4 | 28 |
| 35 | Finite element approximation of a model vortex problem. *Numerical Functional Analysis and Optimization*, **1995**, 16, 261-285 | 1 | |
| 34 | Quasi-norm error bounds for the finite element approximation of some degenerate quasilinear parabolic equations and variational inequalities. *Numerical Functional Analysis and Optimization*, **1995**, 16, 1309-1321 | 1 | 6 |
| 33 | The finite element approximation of a coupled reaction-diffusion problem with non-Lipschitz nonlinearities. *Numerische Mathematik*, **1995**, 71, 135-157 | 2.2 | 1 |
| 32 | An error bound for the finite element approximation of the Cahn-Hilliard equation with logarithmic free energy. *Numerische Mathematik*, **1995**, 72, 1-20 | 2.2 | 42 |
| 31 | Quasi-norm error bounds for the finite element approximation of some degenerate quasilinear elliptic equations and variational inequalities. *ESAIM: Mathematical Modelling and Numerical Analysis*, **1994**, 28, 725-744 | 1.8 | 17 |
| 30 | Quasi-norm error bounds for the finite element approximation of a non-Newtonian flow. *Numerische Mathematik*, **1994**, 68, 437-456 | 2.2 | 81 |
| 29 | Finite Element Approximation of the Parabolic p-Laplacian. *SIAM Journal on Numerical Analysis*, **1994**, 31, 413-428 | 2.4 | 79 |
| 28 | Finite Element Approximation of the p-Laplacian. *Mathematics of Computation*, **1993**, 61, 523 | 1.6 | 12 |
| 27 | Finite element approximation of the $p$-Laplacian. *Mathematics of Computation*, **1993**, 61, 523-523 | 1.6 | 81 |

| | | | |
|---|---|---|---|
| 26 | A Remark on the Regularity of the Solutions of the p-Laplacian and Its Application to Their Finite Element Approximation. *Journal of Mathematical Analysis and Applications*, **1993**, 178, 470-487 | 1.1 | 49 |
| 25 | A further remark on the regularity of the solutions of the p-Laplacian and its applications to their finite element approximation. *Nonlinear Analysis: Theory, Methods & Applications*, **1993**, 21, 379-387 | 1.3 | 18 |
| 24 | Error bounds for the finite element approximation of a degenerate quasilinear parabolic variational inequality. *Advances in Computational Mathematics*, **1993**, 1, 223-239 | 1.6 | 9 |
| 23 | Finite element error analysis of a quasi-Newtonian flow obeying the Carreau or power law. *Numerische Mathematik*, **1993**, 64, 433-453 | 2.2 | 44 |
| 22 | Higher-Order Regularity for the Solutions of Some Degenerate Quasilinear Elliptic Equations in the Plane. *SIAM Journal on Mathematical Analysis*, **1993**, 24, 1522-1536 | 1.7 | 16 |
| 21 | Finite element approximation of the volume-matching problem. *Numerische Mathematik*, **1991**, 60, 291-312 | 2.2 | 7 |
| 20 | Finite element approximation of a model reaction diffusion problem with a non-Lipschitz nonlinearity. *Numerische Mathematik*, **1991**, 59, 217-242 | 2.2 | 23 |
| 19 | Finite Element Approximation of a Rigid Punch Indenting a Membrane. *IMA Journal of Numerical Analysis*, **1991**, 11, 579-594 | 1.8 | 5 |
| 18 | Finite element approximation of a free boundary problem arising in the theory of liquid drops ans plasma physics. *ESAIM: Mathematical Modelling and Numerical Analysis*, **1991**, 25, 213-252 | 1.8 | 4 |
| 17 | Total flux estimates for a finite element approximation of the Dirichlet problem using the boundary penalty method. *Numerische Mathematik*, **1990**, 57, 351-363 | 2.2 | 1 |
| 16 | Finite-Element Approximation of a Plasma Equilibrium Problem. *IMA Journal of Numerical Analysis*, **1989**, 9, 443-464 | 1.8 | 3 |
| 15 | Remarks concerning a free boundary problem arising in the theory of liquid drops and in plasma physics. *Proceedings of the Royal Society of Edinburgh Section A: Mathematics*, **1989**, 111, 169-181 | 1 | 1 |
| 14 | Optimal Recovery in the Finite-Element Method, Part 1: Recovery from Weighted L2 Fits. *IMA Journal of Numerical Analysis*, **1988**, 8, 149-184 | 1.8 | 9 |
| 13 | Finite-Element Approximation of Elliptic Equations with a Neumann or Robin Condition on a Curved Boundary. *IMA Journal of Numerical Analysis*, **1988**, 8, 321-342 | 1.8 | 12 |
| 12 | Optimal Recovery in the Finite-Element Method, Part 2: Defect Correction for Ordinary Differential Equations. *IMA Journal of Numerical Analysis*, **1988**, 8, 527-540 | 1.8 | 10 |
| 11 | Total Flux Estimates for a Finite-Element Approximation of Elliptic Equations. *IMA Journal of Numerical Analysis*, **1987**, 7, 129-148 | 1.8 | 27 |
| 10 | Fitted and Unfitted Finite-Element Methods for Elliptic Equations with Smooth Interfaces. *IMA Journal of Numerical Analysis*, **1987**, 7, 283-300 | 1.8 | 98 |
| 9 | A practical finite element approximation of a semi-definite Neumann problem on a curved domain. *Numerische Mathematik*, **1987**, 51, 23-36 | 2.2 | 17 |

| | | | |
|---|---|---|---|
| 8 | Finite element approximation of the Dirichlet problem using the boundary penalty method. *Numerische Mathematik*, **1986**, 49, 343-366 | 2.2 | 59 |
| 7 | Total Flux Estimates for a Finite-Element Approximation of Parabolic Equations. *IMA Journal of Numerical Analysis*, **1986**, 6, 253-264 | 1.8 | |
| 6 | Fixed mesh finite element approximations to a free boundary problem for an elliptic equation with an oblique derivative boundary condition. *Computers and Mathematics With Applications*, **1985**, 11, 335-345 | 2.7 | 14 |
| 5 | A Finite-element Method for Solving Elliptic Equations with Neumann Data on a Curved Boundary Using Unfitted Meshes. *IMA Journal of Numerical Analysis*, **1984**, 4, 309-325 | 1.8 | 32 |
| 4 | Approximate symmetrization and Petrov-Galerkin methods for diffusion-convection problems. *Computer Methods in Applied Mechanics and Engineering*, **1984**, 45, 97-122 | 5.7 | 98 |
| 3 | Optimal Petrov–Galerkin Methods through Approximate Symmetrization. *IMA Journal of Numerical Analysis*, **1981**, 1, 439-468 | 1.8 | 19 |
| 2 | Optimal finite element solutions to diffusion–convection problems in one dimension. *International Journal for Numerical Methods in Engineering*, **1980**, 15, 1457-1474 | 2.4 | 33 |
| 1 | Gradient flow dynamics of two-phase biomembranes: Sharp interface variational formulation and finite element approximation. *SMAI Journal of Computational Mathematics*,4, 151-195 | | 6 |