

# Erik N Burman

## List of Publications by Year in descending order

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167  
papers

5,878  
citations

109321

35  
h-index

85541

71  
g-index

169  
all docs

169  
docs citations

169  
times ranked

2049  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability and error analysis of a splitting method using Robin-Robin coupling applied to a fluid-structure interaction problem. Numerical Methods for Partial Differential Equations, 2022, 38, 1396-1406.	3.6	2
2	A posteriori error estimates with boundary correction for a cut finite element method. IMA Journal of Numerical Analysis, 2022, 42, 333-362.	2.9	7
3	Gradient jump penalty stabilisation of spectral element discretisation for under-resolved turbulence simulations. Computer Methods in Applied Mechanics and Engineering, 2022, 388, 114200.	6.6	13
4	Error Estimates for the Smagorinsky Turbulence Model: Enhanced Stability Through Scale Separation and Numerical Stabilization. Journal of Mathematical Fluid Mechanics, 2022, 24, 1.	1.0	5
5	Eulerian time-stepping schemes for the non-stationary Stokes equations on time-dependent domains. Numerische Mathematik, 2022, 150, 423-478.	1.9	8
6	Unfitted hybrid high-order methods for the wave equation. Computer Methods in Applied Mechanics and Engineering, 2022, 389, 114366.	6.6	3
7	Implicit-explicit multistep formulations for finite element discretisations using continuous interior penalty. ESAIM: Mathematical Modelling and Numerical Analysis, 2022, 56, 349-383.	1.9	1
8	An A Posteriori Error Estimate of the Outer Normal Derivative Using Dual Weights. SIAM Journal on Numerical Analysis, 2022, 60, 475-501.	2.3	1
9	A stabilized finite element method for inverse problems subject to the convection-diffusion equation. II: convection-dominated regime. Numerische Mathematik, 2022, 150, 769-801.	1.9	2
10	Hybrid coupling of finite element and boundary element methods using Nitsche's method and the Calderon projection. Numerical Algorithms, 2022, 91, 997-1019.	1.9	1
11	A mechanically consistent model for fluid-structure interactions with contact including seepage. Computer Methods in Applied Mechanics and Engineering, 2022, 392, 114637.	6.6	7
12	Explicit Time Stepping for the Wave Equation using CutFEM with Discrete Extension. SIAM Journal of Scientific Computing, 2022, 44, A1254-A1289.	2.8	6
13	Fully discrete loosely coupled Robin-Robin scheme for incompressible fluid-structure interaction: stability and error analysis. Numerische Mathematik, 2022, 151, 807-840.	1.9	2
14	An unfitted hybrid high-order method for the Stokes interface problem. IMA Journal of Numerical Analysis, 2021, 41, 2362-2387.	2.9	11
15	An Unfitted Hybrid High-Order Method with Cell Agglomeration for Elliptic Interface Problems. SIAM Journal of Scientific Computing, 2021, 43, A859-A882.	2.8	32
16	A Hybridized High-Order Method for Unique Continuation Subject to the Helmholtz Equation. SIAM Journal on Numerical Analysis, 2021, 59, 2368-2392.	2.3	5
17	Space time stabilized finite element methods for a unique continuation problem subject to the wave equation. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, S969-S991.	1.9	10
18	Convergence Analysis of Hybrid High-Order Methods for the Wave Equation. Journal of Scientific Computing, 2021, 87, 1.	2.3	15

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19	Comparison of Shape Derivatives Using CutFEM for Ill-posed Bernoulli Free Boundary Problem. <i>Journal of Scientific Computing</i> , 2021, 88, 1.	2.3	1
20	Augmented Lagrangian Method for Thin Plates with Signorini Boundaries. <i>Lecture Notes in Computational Science and Engineering</i> , 2021, , 509-519.	0.3	1
21	3D-2D Stokes-Darcy Coupling for the Modelling of Seepage with an Application to Fluid-Structure Interaction with Contact. <i>Lecture Notes in Computational Science and Engineering</i> , 2021, , 215-223.	0.3	1
22	The Unfitted HHO Method for the Stokes Problem on Curved Domains. <i>Lecture Notes in Computational Science and Engineering</i> , 2021, , 389-397.	0.3	0
23	A Pressure-Robust Discretization of Oseen's Equation Using Stabilization in the Vorticity Equation. <i>SIAM Journal on Numerical Analysis</i> , 2021, 59, 2746-2774.	2.3	12
24	Two mixed finite element formulations for the weak imposition of the Neumann boundary conditions for the Darcy flow. <i>Journal of Numerical Mathematics</i> , 2021, .	3.5	1
25	A stabilized cut streamline diffusion finite element method for convectionâ€“diffusion problems on surfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 358, 112645.	6.6	6
26	Dirichlet boundary value correction using Lagrange multipliers. <i>BIT Numerical Mathematics</i> , 2020, 60, 235-260.	2.0	7
27	A stabilized finite element method for inverse problems subject to the convectionâ€“diffusion equation. I: diffusion-dominated regime. <i>Numerische Mathematik</i> , 2020, 144, 451-477.	1.9	8
28	Application of a minimal compatible element to incompressible and nearly incompressible continuum mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 369, 113224.	6.6	5
29	A cut finite element method for a model of pressure in fractured media. <i>Numerische Mathematik</i> , 2020, 146, 783-818.	1.9	8
30	Cut Bogner-Fox-Schmit elements for plates. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2020, 7, .	1.7	12
31	Weak Imposition of Signorini Boundary Conditions on the Boundary Element Method. <i>SIAM Journal on Numerical Analysis</i> , 2020, 58, 2334-2350.	2.3	2
32	A Fully Discrete Numerical Control Method for the Wave Equation. <i>SIAM Journal on Control and Optimization</i> , 2020, 58, 1519-1546.	2.1	6
33	Well-posedness and $H(\text{div})$ -conforming finite element approximation of a linearised model for inviscid incompressible flow. <i>Mathematical Models and Methods in Applied Sciences</i> , 2020, 30, 847-865.	3.3	5
34	A finite element data assimilation method for the wave equation. <i>Mathematics of Computation</i> , 2020, 89, 1681-1709.	2.1	6
35	A Nitsche-based formulation for fluid-structure interactions with contact. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2020, 54, 531-564.	1.9	25
36	A stable cut finite element method for partial differential equations on surfaces: The Helmholtzâ€“Beltrami operator. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 362, 112803.	6.6	3

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37	Data assimilation finite element method for the linearized Navier–Stokes equations in the low Reynolds regime. <i>Inverse Problems</i> , 2020, 36, 085003.	2.0	5
38	Cut finite elements for convection in fractured domains. <i>Computers and Fluids</i> , 2019, 179, 726-734.	2.5	18
39	Hybridized CutFEM for Elliptic Interface Problems. <i>SIAM Journal of Scientific Computing</i> , 2019, 41, A3354-A3380.	2.8	12
40	A Cut Cell Hybrid High-Order Method for Elliptic Problems with Curved Boundaries. <i>Lecture Notes in Computational Science and Engineering</i> , 2019, , 173-181.	0.3	3
41	A cut finite element method for elliptic bulk problems with embedded surfaces. <i>GEM - International Journal on Geomathematics</i> , 2019, 10, 10.	1.6	3
42	Cut topology optimization for linear elasticity with coupling to parametric nondesign domain regions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 350, 462-479.	6.6	13
43	Boundary Element Methods with Weakly Imposed Boundary Conditions. <i>SIAM Journal of Scientific Computing</i> , 2019, 41, A1357-A1384.	2.8	4
44	Stabilized CutFEM for the convection problem on surfaces. <i>Numerische Mathematik</i> , 2019, 141, 103-139.	1.9	9
45	Augmented Lagrangian finite element methods for contact problems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2019, 53, 173-195.	1.9	15
46	Finite element approximation of the Laplace–Beltrami operator on a surface with boundary. <i>Numerische Mathematik</i> , 2019, 141, 141-172.	1.9	12
47	Primal Dual Mixed Finite Element Methods for Indefinite Advection-Diffusion Equations. <i>SIAM Journal on Numerical Analysis</i> , 2019, 57, 2785-2811.	2.3	1
48	A simple finite element method for elliptic bulk problems with embedded surfaces. <i>Computational Geosciences</i> , 2019, 23, 189-199.	2.4	9
49	A Cut Finite Element Method with Boundary Value Correction for the Incompressible Stokes Equations. <i>Lecture Notes in Computational Science and Engineering</i> , 2019, , 183-192.	0.3	2
50	Unique continuation for the Helmholtz equation using stabilized finite element methods. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2019, 129, 1-22.	1.6	12
51	Robust flux error estimation of an unfitted Nitsche method for high-contrast interface problems. <i>IMA Journal of Numerical Analysis</i> , 2018, 38, 646-668.	2.9	23
52	Augmented Lagrangian and Galerkin least-squares methods for membrane contact. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 114, 1179-1191.	2.8	7
53	Data assimilation for the heat equation using stabilized finite element methods. <i>Numerische Mathematik</i> , 2018, 139, 505-528.	1.9	21
54	A simple approach for finite element simulation of reinforced plates. <i>Finite Elements in Analysis and Design</i> , 2018, 142, 51-60.	3.2	3

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55	Solving ill-posed control problems by stabilized finite element methods: an alternative to Tikhonov regularization. <i>Inverse Problems</i> , 2018, 34, 035004.	2.0	26
56	Shape optimization using the cut finite element method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 328, 242-261.	6.6	66
57	Cut finite element methods for partial differential equations on embedded manifolds of arbitrary codimensions. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2018, 52, 2247-2282.	1.9	32
58	Fully discrete finite element data assimilation method for the heat equation. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2018, 52, 2065-2082.	1.9	14
59	Primal-Dual Mixed Finite Element Methods for the Elliptic Cauchy Problem. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 3480-3509.	2.3	8
60	An Unfitted Hybrid High-Order Method for Elliptic Interface Problems. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 1525-1546.	2.3	49
61	A cut discontinuous Galerkin method for the Laplace-Beltrami operator. <i>IMA Journal of Numerical Analysis</i> , 2017, 37, 138-169.	2.9	34
62	Edge-based nonlinear diffusion for finite element approximations of convection-diffusion equations and its relation to algebraic flux-correction schemes. <i>Numerische Mathematik</i> , 2017, 135, 521-545.	1.9	33
63	Error estimates for transport problems with high Peclet number using a continuous dependence assumption. <i>Journal of Computational and Applied Mathematics</i> , 2017, 309, 267-286.	2.0	3
64	A cut finite element method for the Bernoulli free boundary value problem. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 317, 598-618.	6.6	13
65	Fractional-step methods and finite elements with symmetric stabilization for the transient Oseen problem. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017, 51, 487-507.	1.9	15
66	Blending low-order stabilised finite element methods: A positivity-preserving local projection method for the convection-diffusion equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 317, 1169-1193.	6.6	12
67	Fictitious domain method with boundary value correction using penalty-free Nitsche method. <i>Journal of Numerical Mathematics</i> , 2017, .	3.5	2
68	A nonlinear consistent penalty method weakly enforcing positivity in the finite element approximation of the transport equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 320, 122-132.	6.6	6
69	The elliptic Cauchy problem revisited: Control of boundary data in natural norms. <i>Comptes Rendus Mathematique</i> , 2017, 355, 479-484.	0.3	4
70	Software frameworks for integral equations in electromagnetic scattering based on Calderón identities. <i>Computers and Mathematics With Applications</i> , 2017, 74, 2897-2914.	2.7	25
71	The Penalty-Free Nitsche Method and Nonconforming Finite Elements for the Signorini Problem. <i>SIAM Journal on Numerical Analysis</i> , 2017, 55, 2523-2539.	2.3	13
72	Galerkin least squares finite element method for the obstacle problem. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 313, 362-374.	6.6	16

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73	Stabilized nonconforming finite element methods for data assimilation in incompressible flows. <i>Mathematics of Computation</i> , 2017, 87, 1029-1050.	2.1	5
74	Deriving Robust Unfitted Finite Element Methods from Augmented Lagrangian Formulations. <i>Lecture Notes in Computational Science and Engineering</i> , 2017, , 1-24.	0.3	9
75	A cut finite element method with boundary value correction. <i>Mathematics of Computation</i> , 2017, 87, 633-657.	2.1	44
76	Penalty-Free Nitsche Method for Interface Problems. <i>Lecture Notes in Computational Science and Engineering</i> , 2017, , 183-210.	0.3	2
77	Linear continuous interior penalty finite element method for Helmholtz equation With High Wave Number: One-Dimensional Analysis. <i>Numerical Methods for Partial Differential Equations</i> , 2016, 32, 1378-1410.	3.6	20
78	A vertex-based scheme on polyhedral meshes for advectionâ€“reaction equations with sub-mesh stabilization. <i>Computers and Mathematics With Applications</i> , 2016, 72, 2057-2071.	2.7	6
79	Full gradient stabilized cut finite element methods for surface partial differential equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 310, 278-296.	6.6	24
80	A stabilized nonconforming finite element method for the elliptic Cauchy problem. <i>Mathematics of Computation</i> , 2016, 86, 75-96.	2.1	16
81	Cut finite element methods for coupled bulkâ€“surface problems. <i>Numerische Mathematik</i> , 2016, 133, 203-231.	1.9	39
82	A penalty-free Nitsche method for the weak imposition of boundary conditions in compressible and incompressible elasticity. <i>IMA Journal of Numerical Analysis</i> , 2016, 36, 770-795.	2.9	33
83	Local CIP Stabilization for Composite Finite Elements. <i>SIAM Journal on Numerical Analysis</i> , 2016, 54, 1967-1992.	2.3	5
84	Stabilised Finite Element Methods for Ill-Posed Problems with Conditional Stability. <i>Lecture Notes in Computational Science and Engineering</i> , 2016, , 93-127.	0.3	5
85	A Stabilized Cut Finite Element Method for the Three Field Stokes Problem. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A1705-A1726.	2.8	18
86	Error estimates for forward Euler shock capturing finite element approximations of the one-dimensional Burgers' equation. <i>Mathematical Models and Methods in Applied Sciences</i> , 2015, 25, 2015-2042.	3.3	2
87	CutFEM: Discretizing geometry and partial differential equations. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 104, 472-501.	2.8	479
88	A monotonicity preserving, nonlinear, finite element upwind method for the transport equation. <i>Applied Mathematics Letters</i> , 2015, 49, 141-146.	2.7	12
89	Robust error estimates for stabilized finite element approximations of the two dimensional Navierâ€“Stokesâ€™ equations at high Reynolds number. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 288, 2-23.	6.6	10
90	A stabilized cut finite element method for partial differential equations on surfaces: The Laplaceâ€“Beltrami operator. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 285, 188-207.	6.6	62

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91	Robust error estimates in weak norms for advection dominated transport problems with rough data. <i>Mathematical Models and Methods in Applied Sciences</i> , 2014, 24, 2663-2684.	3.3	7
92	Projection stabilization of Lagrange multipliers for the imposition of constraints on interfaces and boundaries. <i>Numerical Methods for Partial Differential Equations</i> , 2014, 30, 567-592.	3.6	18
93	Stabilized Finite Element Methods for Nonsymmetric, Noncoercive, and Ill-Posed Problems. Part II: Hyperbolic Equations. <i>SIAM Journal of Scientific Computing</i> , 2014, 36, A1911-A1936.	2.8	17
94	Fictitious domain methods using cut elements: III. A stabilized Nitsche method for Stokes's™ problem. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2014, 48, 859-874.	1.9	109
95	Explicit strategies for incompressible fluid-structure interaction problems: Nitsche type mortaring versus Robin-Robin coupling. <i>International Journal for Numerical Methods in Engineering</i> , 2014, 97, 739-758.	2.8	43
96	Error estimates for stabilized finite element methods applied to ill-posed problems. <i>Comptes Rendus Mathematique</i> , 2014, 352, 655-659.	0.3	27
97	An unfitted Nitsche method for incompressible fluid-structure interaction using overlapping meshes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 279, 497-514.	6.6	84
98	Stabilized Finite Element Methods for Nonsymmetric, Noncoercive, and Ill-Posed Problems. Part I: Elliptic Equations. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, A2752-A2780.	2.8	42
99	Implicit-explicit Runge-Kutta schemes and finite elements with symmetric stabilization for advection-diffusion equations. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2012, 46, 681-707.	1.9	13
100	A Penalty-Free Nonsymmetric Nitsche-Type Method for the Weak Imposition of Boundary Conditions. <i>SIAM Journal on Numerical Analysis</i> , 2012, 50, 1959-1981.	2.3	70
101	Fictitious domain finite element methods using cut elements: II. A stabilized Nitsche method. <i>Applied Numerical Mathematics</i> , 2012, 62, 328-341.	2.1	301
102	ANALYSIS OF THE SPACE SEMI-DISCRETIZED SUPG METHOD FOR TRANSIENT CONVECTION-DIFFUSION EQUATIONS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2011, 21, 2049-2068.	3.3	16
103	Bubble stabilized discontinuous Galerkin methods on conforming and non-conforming meshes. <i>Calcolo</i> , 2011, 48, 189-209.	1.1	1
104	A hierarchical NXFEM for fictitious domain simulations. <i>International Journal for Numerical Methods in Engineering</i> , 2011, 86, 549-559.	2.8	15
105	Analysis of the PSPG method for the transient Stokes's™ problem. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 2882-2890.	6.6	11
106	A finite element time relaxation method. <i>Comptes Rendus Mathematique</i> , 2011, 349, 353-356.	0.3	7
107	Duality Based A Posteriori Error Estimation for Quasi-Periodic Solutions Using Time Averages. <i>SIAM Journal of Scientific Computing</i> , 2011, 33, 2199-2216.	2.8	11
108	Numerical Approximation of Large Contrast Problems with the Unfitted Nitsche Method. <i>Lecture Notes in Computational Science and Engineering</i> , 2011, , 227-282.	0.3	15

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109	Crankâ€“Nicolson finite element methods using symmetric stabilization with an application to optimal control problems subject to transient advectionâ€“diffusion equations. <i>Communications in Mathematical Sciences</i> , 2011, 9, 319-329.	1.0	11
110	Bubble stabilized discontinuous Galerkin method for parabolic and elliptic problems. <i>Numerische Mathematik</i> , 2010, 116, 213-241.	1.9	7
111	Fictitious domain finite element methods using cut elements: I. A stabilized Lagrange multiplier method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 2680-2686.	6.6	185
112	Interior Penalty Continuous and Discontinuous Finite Element Approximations of Hyperbolic Equations. <i>Journal of Scientific Computing</i> , 2010, 43, 293-312.	2.3	24
113	Consistent SUPG-method for transient transport problems: Stability and convergence. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 1114-1123.	6.6	76
114	Ghost penalty. <i>Comptes Rendus Mathematique</i> , 2010, 348, 1217-1220.	0.3	230
115	BUBBLE STABILIZED DISCONTINUOUS GALERKIN METHOD FOR STOKES' PROBLEM. <i>Mathematical Models and Methods in Applied Sciences</i> , 2010, 20, 297-313.	3.3	8
116	Interior-penalty-stabilized Lagrange multiplier methods for the finite-element solution of elliptic interface problems. <i>IMA Journal of Numerical Analysis</i> , 2010, 30, 870-885.	2.9	41
117	Explicit Rungeâ€“Kutta Schemes and Finite Elements with Symmetric Stabilization for First-Order Linear PDE Systems. <i>SIAM Journal on Numerical Analysis</i> , 2010, 48, 2019-2042.	2.3	62
118	Quantitative benchmark computations of twoâ€“dimensional bubble dynamics. <i>International Journal for Numerical Methods in Fluids</i> , 2009, 60, 1259-1288.	1.6	396
119	Stabilization of explicit coupling in fluidâ€“structure interaction involving fluid incompressibility. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 766-784.	6.6	146
120	Finite element methods with symmetric stabilization for the transient convectionâ€“diffusionâ€“reaction equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 2508-2519.	6.6	29
121	A Nitsche extended finite element method for incompressible elasticity with discontinuous modulus of elasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 3352-3360.	6.6	115
122	Galerkin Finite Element Methods with Symmetric Pressure Stabilization for the Transient Stokes Equations: Stability and Convergence Analysis. <i>SIAM Journal on Numerical Analysis</i> , 2009, 47, 409-439.	2.3	35
123	A Posteriori Error Estimation for Interior Penalty Finite Element Approximations of the Advection-Reaction Equation. <i>SIAM Journal on Numerical Analysis</i> , 2009, 47, 3584-3607.	2.3	20
124	Low Order Discontinuous Galerkin Methods for Second Order Elliptic Problems. <i>SIAM Journal on Numerical Analysis</i> , 2009, 47, 508-533.	2.3	17
125	Pressure projection stabilizations for Galerkin approximations of Stokes' and Darcy's problem. <i>Numerical Methods for Partial Differential Equations</i> , 2008, 24, 127-143.	3.6	44
126	Symmetric and non-symmetric discontinuous Galerkin methods stabilized using bubble enrichment. <i>Comptes Rendus Mathematique</i> , 2008, 346, 103-106.	0.3	7



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127	Discontinuous Galerkin approximation with discrete variational principle for the nonlinear Laplacian. <i>Comptes Rendus Mathematique</i> , 2008, 346, 1013-1016.	0.3	22
128	Stabilized finite element schemes for incompressible flow using Scott's-Vogelius elements. <i>Applied Numerical Mathematics</i> , 2008, 58, 1704-1719.	2.1	35
129	A Continuous Interior Penalty Method for Viscoelastic Flows. <i>SIAM Journal of Scientific Computing</i> , 2008, 30, 1156-1177.	2.8	20
130	Weighted error estimates of the continuous interior penalty method for singularly perturbed problems. <i>IMA Journal of Numerical Analysis</i> , 2008, 29, 284-314.	2.9	18
131	Continuous interior penalty $hp$ -finite element methods for advection and advection-diffusion equations. <i>Mathematics of Computation</i> , 2007, 76, 1119-1141.	2.1	128
132	A continuous finite element method with face penalty to approximate Friedrichs' systems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2007, 41, 55-76.	1.9	13
133	A priori and a posteriori analysis of non-conforming finite elements with face penalty for advection-diffusion equations. <i>IMA Journal of Numerical Analysis</i> , 2007, 27, 151-171.	2.9	22
134	Stabilized finite element methods for the generalized Oseen problem. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 853-866.	6.6	148
135	Interior penalty variational multiscale method for the incompressible Navier-Stokes equation: Monitoring artificial dissipation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 4045-4058.	6.6	26
136	A unified stabilized method for Stokes and Darcy's equations. <i>Journal of Computational and Applied Mathematics</i> , 2007, 198, 35-51.	2.0	143
137	Stabilized explicit coupling for fluid-structure interaction using Nitsche's method. <i>Comptes Rendus Mathematique</i> , 2007, 345, 467-472.	0.3	32
138	The symmetric discontinuous Galerkin method does not need stabilization in 1D for polynomial orders. <i>Comptes Rendus Mathematique</i> , 2007, 345, 599-602.	0.3	8
139	Continuous interior penalty finite element method for the time-dependent Navier-Stokes equations: space discretization and convergence. <i>Numerische Mathematik</i> , 2007, 107, 39-77.	1.9	80
140	Minimal Stabilization for Discontinuous Galerkin Finite Element Methods for Hyperbolic Problems. <i>Journal of Scientific Computing</i> , 2007, 33, 183-208.	2.3	16
141	On nonlinear artificial viscosity, discrete maximum principle and hyperbolic conservation laws. <i>BIT Numerical Mathematics</i> , 2007, 47, 715-733.	2.0	27
142	Continuous Interior Penalty Finite Element Method for Oseen's Equations. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 1248-1274.	2.3	131
143	Local Projection Stabilization for the Oseen Problem and its Interpretation as a Variational Multiscale Method. <i>SIAM Journal on Numerical Analysis</i> , 2006, 43, 2544-2566.	2.3	192
144	A Domain Decomposition Method Based on Weighted Interior Penalties for Advection-Diffusion-Reaction Problems. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 1612-1638.	2.3	81

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145	A stabilized non-conforming finite element method for incompressible flow. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 2881-2899.	6.6	30
146	Edge stabilization for the generalized Stokes problem: A continuous interior penalty method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 2393-2410.	6.6	82
147	Continuous Interior Penalty hp-Finite Element Methods for Transport Operators. , 2006, , 504-511.		5
148	A Face Penalty Method for the Three Fields Stokes Equation Arising from Oldroyd-B Viscoelastic Flows. , 2006, , 487-494.		0
149	Stabilized Galerkin approximation of convection-diffusion-reaction equations: discrete maximum principle and convergence. <i>Mathematics of Computation</i> , 2005, 74, 1637-1653.	2.1	90
150	Stabilized Crouzeix-Raviart element for the Darcy-Stokes problem. <i>Numerical Methods for Partial Differential Equations</i> , 2005, 21, 986-997.	3.6	77
151	A Unified Analysis for Conforming and Nonconforming Stabilized Finite Element Methods Using Interior Penalty. <i>SIAM Journal on Numerical Analysis</i> , 2005, 43, 2012-2033.	2.3	91
152	A FINITE ELEMENT LEVEL SET METHOD FOR VISCOUS FREE-SURFACE FLOWS. , 2005, , .		5
153	Bunsen flame simulation by finite elements on adaptively refined, unstructured triangulations. <i>Combustion Theory and Modelling</i> , 2004, 8, 65-84.	1.9	12
154	Adaptive finite elements with high aspect ratio for the computation of coalescence using a phase-field model. <i>Journal of Computational Physics</i> , 2004, 195, 153-174.	3.8	22
155	Edge stabilization for Galerkin approximations of convectionâ€“diffusionâ€“reaction problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 1437-1453.	6.6	247
156	Discrete maximum principle for Galerkin approximations of the Laplace operator on arbitrary meshes. <i>Comptes Rendus Mathematique</i> , 2004, 338, 641-646.	0.3	72
157	The Edge Stabilization Method for Finite Elements in CFD. , 2004, , 196-203.		4
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