Erik N Burman

List of Publications by Year
in descending order

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	CutFEM: Discretizing geometry and partial differential equations. International Journal for Numerical Methods in Engineering, 2015, 104, 472-501.	2.8	479
2	Quantitative benchmark computations of twoâ€dimensional bubble dynamics. International Journal for Numerical Methods in Fluids, 2009, 60, 1259-1288.	1.6	396
3	Fictitious domain finite element methods using cut elements: II. A stabilized Nitsche method. Applied Numerical Mathematics, 2012, 62, 328-341.	2.1	301
4	Edge stabilization for Galerkin approximations of convectionâ€“diffusionâ€“reaction problems. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 1437-1453.	6.6	247
5	Ghost penalty. Comptes Rendus Mathematique, 2010, 348, 1217-1220.	0.3	230
6	Local Projection Stabilization for the Oseen Problem and its Interpretation as a Variational Multiscale Method. SIAM Journal on Numerical Analysis, 2006, 43, 2544-2566.	2.3	192
7	Fictitious domain finite element methods using cut elements: I. A stabilized Lagrange multiplier method. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 2680-2686.	6.6	185
8	Stabilized finite element methods for the generalized Oseen problem. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 853-866.	6.6	148
9	Stabilization of explicit coupling in fluidâ€“structure interaction involving fluid incompressibility. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 766-784.	6.6	146
10	A unified stabilized method for Stokesâ€™ and Darcy's equations. Journal of Computational and Applied Mathematics, 2007, 198, 35-51.	2.0	143
11	Continuous Interior Penalty Finite Element Method for Oseen's Equations. SIAM Journal on Numerical Analysis, 2006, 44, 1248-1274.	2.3	131
12	Continuous interior penalty hp-finite element methods for advection and advection-diffusion equations. Mathematics of Computation, 2007, 76, 1119-1141.	2.1	128
13	A Nitsche extended finite element method for incompressible elasticity with discontinuous modulus of elasticity. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3352-3360.	6.6	115
14	Fictitious domain methods using cut elements: III. A stabilized Nitsche method for Stokesâ€™ problem. ESAIM: Mathematical Modelling and Numerical Analysis, 2014, 48, 859-874.	1.9	109
15	A Unified Analysis for Conforming and Nonconforming Stabilized Finite Element Methods Using Interior Penalty. SIAM Journal on Numerical Analysis, 2005, 43, 2012-2033.	2.3	91
16	Stabilized Galerkin approximation of convection-diffusion-reaction equations: discrete maximum principle and convergence. Mathematics of Computation, 2005, 74, 1637-1653.	2.1	90
17	An unfitted Nitsche method for incompressible fluidâ€“structure interaction using overlapping meshes. Computer Methods in Applied Mechanics and Engineering, 2014, 279, 497-514.	6.6	84
18	Edge stabilization for the generalized Stokes problem: A continuous interior penalty method. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 2393-2410.	6.6	82

#	Article	IF	Citations
19	A Domain Decomposition Method Based on Weighted Interior Penalties for Advectionâ€Diffusionâ€Reaction Problems. SIAM Journal on Numerical Analysis, 2006, 44, 1612-1638.	2.3	81
20	Continuous interior penalty finite element method for the time-dependent Navierâ€“Stokes equations: space discretization and convergence. Numerische Mathematik, 2007, 107, 39-77.	1.9	80
21	Nonlinear diffusion and discrete maximum principle for stabilized Galerkin approximations of the convectionâ€“diffusion-reaction equation. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 3833-3855.	6.6	77
22	Stabilized Crouzeix-Raviart element for the Darcy-Stokes problem. Numerical Methods for Partial Differential Equations, 2005, 21, 986-997.	3.6	77
23	Consistent SUPG-method for transient transport problems: Stability and convergence. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 1114-1123.	6.6	76
24	Discrete maximum principle for Galerkin approximations of the Laplace operator on arbitrary meshes. Comptes Rendus Mathematique, 2004, 338, 641-646.	0.3	72
25	A Penalty-Free Nonsymmetric Nitsche-Type Method for the Weak Imposition of Boundary Conditions. SIAM Journal on Numerical Analysis, 2012, 50, 1959-1981.	2.3	70
26	Shape optimization using the cut finite element method. Computer Methods in Applied Mechanics and Engineering, 2018, 328, 242-261.	6.6	66
27	Explicit Rungeâ€“Kutta Schemes and Finite Elements with Symmetric Stabilization for First-Order Linear PDE Systems. SIAM Journal on Numerical Analysis, 2010, 48, 2019-2042.	2.3	62
28	A stabilized cut finite element method for partial differential equations on surfaces: The Laplaceâ€“Beltrami operator. Computer Methods in Applied Mechanics and Engineering, 2015, 285, 188-207.	6.6	62
29	An Unfitted Hybrid High-Order Method for Elliptic Interface Problems. SIAM Journal on Numerical Analysis, 2018, 56, 1525-1546.	2.3	49
30	Pressure projection stabilizations for Galerkin approximations of Stokes' and Darcy's problem. Numerical Methods for Partial Differential Equations, 2008, 24, 127-143.	3.6	44
31	A cut finite element method with boundary value correction. Mathematics of Computation, 2017, 87, 633-657.	2.1	44
32	Explicit strategies for incompressible fluidâ€structure interaction problems: Nitsche type mortaring versus Robinâ€“Robin coupling. International Journal for Numerical Methods in Engineering, 2014, 97, 739-758.	2.8	43
33	Stabilized Finite Element Methods for Nonsymmetric, Noncoercive, and Ill-Posed Problems. Part I: Elliptic Equations. SIAM Journal of Scientific Computing, 2013, 35, A2752-A2780.	2.8	42
34	Interior-penalty-stabilized Lagrange multiplier methods for the finite-element solution of elliptic interface problems. IMA Journal of Numerical Analysis, 2010, 30, 870-885.	2.9	41
35	Cut finite element methods for coupled bulkâ€“surface problems. Numerische Mathematik, 2016, 133, 203-231.	1.9	39
36	Stabilized finite element schemes for incompressible flow using Scottâ€“Vogelius elements. Applied Numerical Mathematics, 2008, 58, 1704-1719.	2.1	35

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37	Galerkin Finite Element Methods with Symmetric Pressure Stabilization for the Transient Stokes Equations: Stability and Convergence Analysis. SIAM Journal on Numerical Analysis, 2009, 47, 409-439.	2.3	35
38	A cut discontinuous Galerkin method for the Laplaceâ€“Beltrami operator. IMA Journal of Numerical Analysis, 2017, 37, 138-169.	2.9	34
39	A penalty-free Nitsche method for the weak imposition of boundary conditions in compressible and incompressible elasticity. IMA Journal of Numerical Analysis, 2016, 36, 770-795.	2.9	33
40	Edge-based nonlinear diffusion for finite element approximations of convectionâ€“diffusion equations and its relation to algebraic flux-correction schemes. Numerische Mathematik, 2017, 135, 521-545.	1.9	33
41	Stabilized explicit coupling for fluidâ€“structure interaction using Nitsche's method. Comptes Rendus Mathematique, 2007, 345, 467-472.	0.3	32
42	Cut finite element methods for partial differential equations on embedded manifolds of arbitrary codimensions. ESAIM: Mathematical Modelling and Numerical Analysis, 2018, 52, 2247-2282.	1.9	32
43	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
44	A stabilized non-conforming finite element method for incompressible flow. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 2881-2899.	6.6	30
45	Finite element methods with symmetric stabilization for the transient convectionâ€“diffusionâ€“reaction equation. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 2508-2519.	6.6	29
46	On nonlinear artificial viscosity, discrete maximum principle and hyperbolic conservation laws. BIT Numerical Mathematics, 2007, 47, 715-733.	2.0	27
47	Error estimates for stabilized finite element methods applied to ill-posed problems. Comptes Rendus Mathematique, 2014, 352, 655-659.	0.3	27
48	Interior penalty variational multiscale method for the incompressible Navierâ€“Stokes equation: Monitoring artificial dissipation. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 4045-4058.	6.6	26
49	Solving ill-posed control problems by stabilized finite element methods: an alternative to Tikhonov regularization. Inverse Problems, 2018, 34, 035004.	2.0	26
50	Software frameworks for integral equations in electromagnetic scattering based on CalderÃ³n identities. Computers and Mathematics With Applications, 2017, 74, 2897-2914.	2.7	25
51	A Nitsche-based formulation for fluid-structure interactions with contact. ESAIM: Mathematical Modelling and Numerical Analysis, 2020, 54, 531-564.	1.9	25
52	Interior Penalty Continuous and Discontinuous Finite Element Approximations of Hyperbolic Equations. Journal of Scientific Computing, 2010, 43, 293-312.	2.3	24
53	Full gradient stabilized cut finite element methods for surface partial differential equations. Computer Methods in Applied Mechanics and Engineering, 2016, 310, 278-296.	6.6	24
54	Robust flux error estimation of an unfitted Nitsche method for high-contrast interface problems. IMA Journal of Numerical Analysis, 2018, 38, 646-668.	2.9	23

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55	Adaptive finite elements with high aspect ratio for the computation of coalescence using a phase-field model. Journal of Computational Physics, 2004, 195, 153-174.	3.8	22
56	A priori and a posteriori analysis of non-conforming finite elements with face penalty for advectionâ€“diffusion equations. IMA Journal of Numerical Analysis, 2007, 27, 151-171.	2.9	22
57	Discontinuous Galerkin approximation with discrete variational principle for the nonlinear Laplacian. Comptes Rendus Mathematique, 2008, 346, 1013-1016.	0.3	22
58	Data assimilation for the heat equation using stabilized finite element methods. Numerische Mathematik, 2018, 139, 505-528.	1.9	21
59	A Continuous Interior Penalty Method for Viscoelastic Flows. SIAM Journal of Scientific Computing, 2008, 30, 1156-1177.	2.8	20
60	A Posteriori Error Estimation for Interior Penalty Finite Element Approximations of the Advection-Reaction Equation. SIAM Journal on Numerical Analysis, 2009, 47, 3584-3607.	2.3	20
61	Linear continuous interior penalty finite element method for Helmholtz equation With High Wave Number: One-Dimensional Analysis. Numerical Methods for Partial Differential Equations, 2016, 32, 1378-1410.	3.6	20
62	Weighted error estimates of the continuous interior penalty method for singularly perturbed problems. IMA Journal of Numerical Analysis, 2008, 29, 284-314.	2.9	18
63	Projection stabilization of Lagrange multipliers for the imposition of constraints on interfaces and boundaries. Numerical Methods for Partial Differential Equations, 2014, 30, 567-592.	3.6	18
64	A Stabilized Cut Finite Element Method for the Three Field Stokes Problem. SIAM Journal of Scientific Computing, 2015, 37, A1705-A1726.	2.8	18
65	Cut finite elements for convection in fractured domains. Computers and Fluids, 2019, 179, 726-734.	2.5	18
66	Low Order Discontinuous Galerkin Methods for Second Order Elliptic Problems. SIAM Journal on Numerical Analysis, 2009, 47, 508-533.	2.3	17
67	Stabilized Finite Element Methods for Nonsymmetric, Noncoercive, and Ill-Posed Problems. Part II: Hyperbolic Equations. SIAM Journal of Scientific Computing, 2014, 36, A1911-A1936.	2.8	17
68	Minimal Stabilization for Discontinuous Galerkin Finite Element Methods for Hyperbolic Problems. Journal of Scientific Computing, 2007, 33, 183-208.	2.3	16
69	ANALYSIS OF THE SPACE SEMI-DISCRETIZED SUPG METHOD FOR TRANSIENT CONVECTIONâ€“DIFFUSION EQUATIONS. Mathematical Models and Methods in Applied Sciences, 2011, 21, 2049-2068.	3.3	16
70	A stabilized nonconforming finite element method for the elliptic Cauchy problem. Mathematics of Computation, 2016, 86, 75-96.	2.1	16
71	Galerkin least squares finite element method for the obstacle problem. Computer Methods in Applied Mechanics and Engineering, 2017, 313, 362-374.	6.6	16
72	Anisotropic, adaptative finite elements for the computation of a solutal dendrite. Interfaces and Free Boundaries, 2003, 5, 103-128.	0.8	15

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73	A hierarchical NXFEM for fictitious domain simulations. International Journal for Numerical Methods in Engineering, 2011, 86, 549-559.	2.8	15
74	Fractional-step methods and finite elements with symmetric stabilization for the transient Oseen problem. ESAIM: Mathematical Modelling and Numerical Analysis, 2017, 51, 487-507.	1.9	15
75	Augmented Lagrangian finite element methods for contact problems. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 173-195.	1.9	15
76	Convergence Analysis of Hybrid High-Order Methods for the Wave Equation. Journal of Scientific Computing, 2021, 87, 1.	2.3	15
77	Numerical Approximation of Large Contrast Problems with the Unfitted Nitsche Method. Lecture Notes in Computational Science and Engineering, 2011, , 227-282.	0.3	15
78	Numerical analysis of two operator splitting methods for an hyperbolic system of conservation laws with stiff relaxation terms. Computer Methods in Applied Mechanics and Engineering, 1995, 128, 291-314.	6.6	14
79	Fully discrete finite element data assimilation method for the heat equation. ESAIM: Mathematical Modelling and Numerical Analysis, 2018, 52, 2065-2082.	1.9	14
80	A continuous finite element method with face penalty to approximate Friedrichs' systems. ESAIM: Mathematical Modelling and Numerical Analysis, 2007, 41, 55-76.	1.9	13
81	Implicit-explicit Rungeâ€“Kutta schemes and finite elements with symmetric stabilization for advection-diffusion equations. ESAIM: Mathematical Modelling and Numerical Analysis, 2012, 46, 681-707.	1.9	13
82	A cut finite element method for the Bernoulli free boundary value problem. Computer Methods in Applied Mechanics and Engineering, 2017, 317, 598-618.	6.6	13
83	The Penalty-Free Nitsche Method and Nonconforming Finite Elements for the Signorini Problem. SIAM Journal on Numerical Analysis, 2017, 55, 2523-2539.	2.3	13
84	Cut topology optimization for linear elasticity with coupling to parametric nondesign domain regions. Computer Methods in Applied Mechanics and Engineering, 2019, 350, 462-479.	6.6	13
85	Gradient jump penalty stabilisation of spectral/<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1568" altimg="si6.svg"><mml:mrow><mml:mi>h</mml:mi><mml:mi>p</mml:mi></mml:mrow></mml:math> element discretisation for under-resolved turbulence simulations. Computer Methods in Applied Mechanics and Engineering, 2022, 388, 114200.	6.6	13
86	Bunsen flame simulation by finite elements on adaptively refined, unstructured triangulations. Combustion Theory and Modelling, 2004, 8, 65-84.	1.9	12
87	A monotonicity preserving, nonlinear, finite element upwind method for the transport equation. Applied Mathematics Letters, 2015, 49, 141-146.	2.7	12
88	Blending low-order stabilised finite element methods: A positivity-preserving local projection method for the convectionâ€“diffusion equation. Computer Methods in Applied Mechanics and Engineering, 2017, 317, 1169-1193.	6.6	12
89	Hybridized CutFEM for Elliptic Interface Problems. SIAM Journal of Scientific Computing, 2019, 41, A3354-A3380.	2.8	12
90	Finite element approximation of the Laplaceâ€“Beltrami operator on a surface with boundary. Numerische Mathematik, 2019, 141, 141-172.	1.9	12

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91	Unique continuation for the Helmholtz equation using stabilized finite element methods. Journal Des Mathematiques Pures Et Appliquees, 2019, 129, 1-22.	1.6	12
92	Cut Bogner-Fox-Schmit elements for plates. Advanced Modeling and Simulation in Engineering Sciences, 2020, 7, .	1.7	12
93	Hybrid High-Order Methods for the Acoustic Wave Equation in the Time Domain. Communications on Applied Mathematics and Computation, 0, , 1.	1.7	12
94	A Pressure-Robust Discretization of Oseen's Equation Using Stabilization in the Vorticity Equation. SIAM Journal on Numerical Analysis, 2021, 59, 2746-2774.	2.3	12
95	ADAPTIVE FINITE ELEMENT METHODS FOR COMPRESSIBLE TWO-PHASE FLOW. Mathematical Models and Methods in Applied Sciences, 2000, 10, 963-989.	3.3	11
96	Existence of solutions to an anisotropic phase-field model. Mathematical Methods in the Applied Sciences, 2003, 26, 1137-1160.	2.3	11
97	Analysis of the PSPG method for the transient Stokesâ€™ problem. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2882-2890.	6.6	11
98	Duality Based A Posteriori Error Estimation for Quasi-Periodic Solutions Using Time Averages. SIAM Journal of Scientific Computing, 2011, 33, 2199-2216.	2.8	11
99	An unfitted hybrid high-order method for the Stokes interface problem. IMA Journal of Numerical Analysis, 2021, 41, 2362-2387.	2.9	11
100	Crankâ€“Nicolson finite element methods using symmetric stabilization with an application to optimal control problems subject to transient advectionâ€“diffusion equations. Communications in Mathematical Sciences, 2011, 9, 319-329.	1.0	11
101	An adaptive finite element method with crosswind diffusion for low Mach, steady, laminar combustion. Journal of Computational Physics, 2003, 188, 472-492.	3.8	10
102	Robust error estimates for stabilized finite element approximations of the two dimensional Navierâ€“Stokesâ€™ equations at high Reynolds number. Computer Methods in Applied Mechanics and Engineering, 2015, 288, 2-23.	6.6	10
103	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
104	Adaptive finite element methods for compressible flow. Computer Methods in Applied Mechanics and Engineering, 2000, 190, 1137-1162.	6.6	9
105	Deriving Robust Unfitted Finite Element Methods from Augmented Lagrangian Formulations. Lecture Notes in Computational Science and Engineering, 2017, , 1-24.	0.3	9
106	Stabilized CutFEM for the convection problem on surfaces. Numerische Mathematik, 2019, 141, 103-139.	1.9	9
107	A simple finite element method for elliptic bulk problems with embedded surfaces. Computational Geosciences, 2019, 23, 189-199.	2.4	9
108	The symmetric discontinuous Galerkin method does not need stabilization in 1D for polynomial orders. Comptes Rendus Mathematique, 2007, 345, 599-602.	0.3	8

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109	BUBBLE STABILIZED DISCONTINUOUS GALERKIN METHOD FOR STOKES' PROBLEM. Mathematical Models and Methods in Applied Sciences, 2010, 20, 297-313.	3.3	8
110	Primal-Dual Mixed Finite Element Methods for the Elliptic Cauchy Problem. SIAM Journal on Numerical Analysis, 2018, 56, 3480-3509.	2.3	8
111	A stabilized finite element method for inverse problems subject to the convectionâ€“diffusion equation. I: diffusion-dominated regime. Numerische Mathematik, 2020, 144, 451-477.	1.9	8
112	A cut finite element method for a model of pressure in fractured media. Numerische Mathematik, 2020, 146, 783-818.	1.9	8
113	Eulerian time-stepping schemes for the non-stationary Stokes equations on time-dependent domains. Numerische Mathematik, 2022, 150, 423-478.	1.9	8
114	Symmetric and non-symmetric discontinuous Galerkin methods stabilized using bubble enrichment. Comptes Rendus Mathematique, 2008, 346, 103-106.	0.3	7
115	Bubble stabilized discontinuous Galerkin method for parabolic and elliptic problems. Numerische Mathematik, 2010, 116, 213-241.	1.9	7
116	A finite element time relaxation method. Comptes Rendus Mathematique, 2011, 349, 353-356.	0.3	7
117	Robust error estimates in weak norms for advection dominated transport problems with rough data. Mathematical Models and Methods in Applied Sciences, 2014, 24, 2663-2684.	3.3	7
118	Augmented Lagrangian and Galerkin leastâ€squares methods for membrane contact. International Journal for Numerical Methods in Engineering, 2018, 114, 1179-1191.	2.8	7
119	Dirichlet boundary value correction using Lagrange multipliers. BIT Numerical Mathematics, 2020, 60, 235-260.	2.0	7
120	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
121	A mechanically consistent model for fluidâ€“structure interactions with contact including seepage. Computer Methods in Applied Mechanics and Engineering, 2022, 392, 114637.	6.6	7
122	A vertex-based scheme on polyhedral meshes for advectionâ€“reaction equations with sub-mesh stabilization. Computers and Mathematics With Applications, 2016, 72, 2057-2071.	2.7	6
123	A nonlinear consistent penalty method weakly enforcing positivity in the finite element approximation of the transport equation. Computer Methods in Applied Mechanics and Engineering, 2017, 320, 122-132.	6.6	6
124	A stabilized cut streamline diffusion finite element method for convectionâ€“diffusion problems on surfaces. Computer Methods in Applied Mechanics and Engineering, 2020, 358, 112645.	6.6	6
125	A Fully Discrete Numerical Control Method for the Wave Equation. SIAM Journal on Control and Optimization, 2020, 58, 1519-1546.	2.1	6
126	A finite element data assimilation method for the wave equation. Mathematics of Computation, 2020, 89, 1681-1709.	2.1	6

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127	Explicit Time Stepping for the Wave Equation using CutFEM with Discrete Extension. SIAM Journal of Scientific Computing, 2022, 44, A1254-A1289.	2.8	6
128	Stabilized nonconforming finite element methods for data assimilation in incompressible flows. Mathematics of Computation, 2017, 87, 1029-1050.	2.1	5
129	Application of a minimal compatible element to incompressible and nearly incompressible continuum mechanics. Computer Methods in Applied Mechanics and Engineering, 2020, 369, 113224.	6.6	5
130	Well-posedness and H(div)-conforming finite element approximation of a linearised model for inviscid incompressible flow. Mathematical Models and Methods in Applied Sciences, 2020, 30, 847-865.	3.3	5
131	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
132	Continuous Interior Penalty hp-Finite Element Methods for Transport Operators. , 2006, , 504-511.		5
133	Local CIP Stabilization for Composite Finite Elements. SIAM Journal on Numerical Analysis, 2016, 54, 1967-1992.	2.3	5
134	A FINITE ELEMENT LEVEL SET METHOD FOR VISCOUS FREE-SURFACE FLOWS. , 2005, , .		5
135	Stabilised Finite Element Methods for Ill-Posed Problems with Conditional Stability. Lecture Notes in Computational Science and Engineering, 2016, , 93-127.	0.3	5
136	Data assimilation finite element method for the linearized Navierâ€“Stokes equations in the low Reynolds regime. Inverse Problems, 2020, 36, 085003.	2.0	5
137	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
138	The elliptic Cauchy problem revisited: Control of boundary data in natural norms. Comptes Rendus Mathematique, 2017, 355, 479-484.	0.3	4
139	Boundary Element Methods with Weakly Imposed Boundary Conditions. SIAM Journal of Scientific Computing, 2019, 41, A1357-A1384.	2.8	4
140	The Edge Stabilization Method for Finite Elements in CFD. , 2004, , 196-203.		4
141	Error estimates for transport problems with high PÃ©clet number using a continuous dependence assumption. Journal of Computational and Applied Mathematics, 2017, 309, 267-286.	2.0	3
142	A simple approach for finite element simulation of reinforced plates. Finite Elements in Analysis and Design, 2018, 142, 51-60.	3.2	3
143	A Cut Cell Hybrid High-Order Method for Elliptic Problems with Curved Boundaries. Lecture Notes in Computational Science and Engineering, 2019, , 173-181.	0.3	3
144	A cut finite element method for elliptic bulk problems with embedded surfaces. GEM - International Journal on Geomathematics, 2019, 10, 10.	1.6	3

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145	A stable cut finite element method for partial differential equations on surfaces: The Helmholtzâ€“Beltrami operator. Computer Methods in Applied Mechanics and Engineering, 2020, 362, 112803.	6.6	3
146	Unfitted hybrid high-order methods for the wave equation. Computer Methods in Applied Mechanics and Engineering, 2022, 389, 114366.	6.6	3
147	Weighted Error Estimates for Transient Transport Problems Discretized Using Continuous Finite Elements with Interior Penalty Stabilization on the Gradient Jumps. Vietnam Journal of Mathematics, 0, , 1.	0.8	3
148	Error estimates for forward Euler shock capturing finite element approximations of the one-dimensional Burgers' equation. Mathematical Models and Methods in Applied Sciences, 2015, 25, 2015-2042.	3.3	2
149	Fictitious domain method with boundary value correction using penalty-free Nitsche method. Journal of Numerical Mathematics, 2017, .	3.5	2
150	A Cut Finite Element Method with Boundary Value Correction for the Incompressible Stokes Equations. Lecture Notes in Computational Science and Engineering, 2019, , 183-192.	0.3	2
151	Weak Imposition of Signorini Boundary Conditions on the Boundary Element Method. SIAM Journal on Numerical Analysis, 2020, 58, 2334-2350.	2.3	2
152	Stability and error analysis of a splitting method using Robinâ€“Robin coupling applied to a fluidâ€“structure interaction problem. Numerical Methods for Partial Differential Equations, 2022, 38, 1396-1406.	3.6	2
153	Penalty-Free Nitsche Method for Interface Problems. Lecture Notes in Computational Science and Engineering, 2017, , 183-210.	0.3	2
154	Convergence of the finite element method applied to an anisotropic phase-field model. Annales Mathematiques Blaise Pascal, 2004, 11, 67-94.	0.1	2
155	A stabilized finite element method for inverse problems subject to the convectionâ€“diffusion equation. II: convection-dominated regime. Numerische Mathematik, 2022, 150, 769-801.	1.9	2
156	Fully discrete loosely coupled Robin-Robin scheme for incompressible fluidâ€“structure interaction: stability and error analysis. Numerische Mathematik, 2022, 151, 807-840.	1.9	2
157	Bubble stabilized discontinuous Galerkin methods onÂconforming and non-conforming meshes. Calcolo, 2011, 48, 189-209.	1.1	1
158	Primal Dual Mixed Finite Element Methods for Indefinite Advection-Diffusion Equations. SIAM Journal on Numerical Analysis, 2019, 57, 2785-2811.	2.3	1
159	Comparison of Shape Derivatives Using CutFEM for Ill-posed Bernoulli Free Boundary Problem. Journal of Scientific Computing, 2021, 88, 1.	2.3	1
160	Augmented Lagrangian Method for Thin Plates with Signorini Boundaries. Lecture Notes in Computational Science and Engineering, 2021, , 509-519.	0.3	1
161	3D-2D Stokes-Darcy Coupling for the Modelling of Seepage with an Application to Fluid-Structure Interaction with Contact. Lecture Notes in Computational Science and Engineering, 2021, , 215-223.	0.3	1
162	Two mixed finite element formulations for the weak imposition of the Neumann boundary conditions for the Darcy flow. Journal of Numerical Mathematics, 2021, .	3.5	1

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163	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
164	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
165	Hybrid coupling of finite element and boundary element methods using Nitscheâ€™s method and the Calderon projection. Numerical Algorithms, 2022, 91, 997-1019.	1.9	1
166	The Unfitted HHO Method for the Stokes Problem on Curved Domains. Lecture Notes in Computational Science and Engineering, 2021, , 389-397.	0.3	0
167	A Face Penalty Method for the Three Fields Stokes Equation Arising from Oldroyd-B Viscoelastic Flows. , 2006, , 487-494.		0