

Tao Lin

List of Publications by Year in descending order

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38
papers

1,511
citations

331670

21
h-index

315739

38
g-index

38
all docs

38
docs citations

38
times ranked

355
citing authors

#	ARTICLE	IF	CITATIONS
1	New Cartesian grid methods for interface problems using the finite element formulation. <i>Numerische Mathematik</i> , 2003, 96, 61-98.	1.9	321
2	Partially Penalized Immersed Finite Element Methods For Elliptic Interface Problems. <i>SIAM Journal on Numerical Analysis</i> , 2015, 53, 1121-1144.	2.3	154
3	Approximation capability of a bilinear immersed finite element space. <i>Numerical Methods for Partial Differential Equations</i> , 2008, 24, 1265-1300.	3.6	110
4	Immersed finite element methods for parabolic equations with moving interface. <i>Numerical Methods for Partial Differential Equations</i> , 2013, 29, 619-646.	3.6	73
5	Linear and bilinear immersed finite elements for planar elasticity interface problems. <i>Journal of Computational and Applied Mathematics</i> , 2012, 236, 4681-4699.	2.0	61
6	A locking-free immersed finite element method for planar elasticity interface problems. <i>Journal of Computational Physics</i> , 2013, 247, 228-247.	3.8	58
7	The convergence of the bilinear and linear immersed finite element solutions to interface problems. <i>Numerical Methods for Partial Differential Equations</i> , 2012, 28, 312-330.	3.6	54
8	A 3D immersed finite element method with non-homogeneous interface flux jump for applications in particle-in-cell simulations of plasma-lunar surface interactions. <i>Journal of Computational Physics</i> , 2016, 321, 965-980.	3.8	49
9	Interior penalty bilinear IFE discontinuous Galerkin methods for elliptic equations with discontinuous coefficient. <i>Journal of Systems Science and Complexity</i> , 2010, 23, 467-483.	2.8	46
10	An immersed discontinuous finite element method for Stokes interface problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 293, 170-190.	6.6	46
11	A group of immersed finite-element spaces for elliptic interface problems. <i>IMA Journal of Numerical Analysis</i> , 2019, 39, 482-511.	2.9	42
12	A Method of Lines Based on Immersed Finite Elements for Parabolic Moving Interface Problems. <i>Advances in Applied Mathematics and Mechanics</i> , 2013, 5, 548-568.	1.2	39
13	Partially penalized immersed finite element methods for parabolic interface problems. <i>Numerical Methods for Partial Differential Equations</i> , 2015, 31, 1925-1947.	3.6	35
14	A Higher Degree Immersed Finite Element Method Based on a Cauchy Extension for Elliptic Interface Problems. <i>SIAM Journal on Numerical Analysis</i> , 2019, 57, 1545-1573.	2.3	35
15	Quadratic immersed finite element spaces and their approximation capabilities. <i>Advances in Computational Mathematics</i> , 2006, 24, 81-112.	1.6	34
16	A Priori Error Estimates for Some Discontinuous Galerkin Immersed Finite Element Methods. <i>Journal of Scientific Computing</i> , 2015, 65, 875-894.	2.3	31
17	An immersed finite element method for elliptic interface problems in three dimensions. <i>Journal of Computational Physics</i> , 2020, 414, 109478.	3.8	30
18	A Nonconforming Immersed Finite Element Method for Elliptic Interface Problems. <i>Journal of Scientific Computing</i> , 2019, 79, 442-463.	2.3	29

#	ARTICLE	IF	CITATIONS
19	Nonconforming immersed finite element spaces for elliptic interface problems. <i>Computers and Mathematics With Applications</i> , 2018, 75, 2002-2016.	2.7	27
20	Magneto-optical current sensing for applications in integrated power electronics modules. <i>Sensors and Actuators A: Physical</i> , 2003, 109, 9-16.	4.1	26
21	A selective immersed discontinuous Galerkin method for elliptic interface problems. <i>Mathematical Methods in the Applied Sciences</i> , 2014, 37, 983-1002.	2.3	26
22	A posteriori error estimate for a modified weak Galerkin method solving elliptic problems. <i>Numerical Methods for Partial Differential Equations</i> , 2017, 33, 381-398.	3.6	20
23	Approximation capabilities of immersed finite element spaces for elasticity Interface problems. <i>Numerical Methods for Partial Differential Equations</i> , 2019, 35, 1243-1268.	3.6	19
24	An immersed discontinuous finite element method for the Stokes problem with a moving interface. <i>Journal of Computational and Applied Mathematics</i> , 2019, 362, 540-559.	2.0	18
25	A Fixed Mesh Method with Immersed Finite Elements for Solving Interface Inverse Problems. <i>Journal of Scientific Computing</i> , 2019, 79, 148-175.	2.3	17
26	An analysis of a weak Galerkin finite element method for stationary Navier–Stokes problems. <i>Journal of Computational and Applied Mathematics</i> , 2019, 362, 484-497.	2.0	16
27	Error estimates for a partially penalized immersed finite element method for elasticity interface problems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2020, 54, 1-24.	1.9	15
28	Higher degree immersed finite element spaces constructed according to the actual interface. <i>Computers and Mathematics With Applications</i> , 2018, 75, 1868-1881.	2.7	11
29	Optimal error bounds for partially penalized immersed finite element methods for parabolic interface problems. <i>Journal of Computational and Applied Mathematics</i> , 2020, 366, 112401.	2.0	11
30	Recovering elastic inclusions by shape optimization methods with immersed finite elements. <i>Journal of Computational Physics</i> , 2020, 404, 109123.	3.8	11
31	Error Estimates for an Immersed Finite Element Method for Second Order Hyperbolic Equations in Inhomogeneous Media. <i>Journal of Scientific Computing</i> , 2020, 84, 1.	2.3	11
32	Direct numerical method for an inverse problem of hyperbolic equations. <i>Numerical Methods for Partial Differential Equations</i> , 1992, 8, 551-574.	3.6	8
33	A posteriori error estimates for finite volume method based on bilinear trial functions for the elliptic equation. <i>Journal of Computational and Applied Mathematics</i> , 2013, 254, 185-191.	2.0	7
34	Solving Interface Problems of the Helmholtz Equation by Immersed Finite Element Methods. <i>Communications on Applied Mathematics and Computation</i> , 2019, 1, 187-206.	1.7	7
35	Defect correction and a posteriori error estimation of Petrov-Galerkin methods for nonlinear Volterra integro-differential equations. <i>Applications of Mathematics</i> , 2000, 45, 241-263.	0.9	6
36	The weak Galerkin finite element method for incompressible flow. <i>Journal of Mathematical Analysis and Applications</i> , 2018, 464, 247-265.	1.0	4

#	ARTICLE	IF	CITATIONS
37	Error analysis of symmetric linear/bilinear partially penalized immersed finite element methods for Helmholtz interface problems. Journal of Computational and Applied Mathematics, 2021, 390, 113378.	2.0	3
38	NUMERICAL INTERFACES IN FINITE DIFFERENCE METHODS FOR HYPERBOLIC EQUATIONS WITH DISCONTINUOUS COEFFICIENTS. Journal of Computational Acoustics, 1993, 01, 151-184.	1.0	1