

Xiu Ye

List of Publications by Year in descending order

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106
papers

3,689
citations

159585

30
h-index

138484

58
g-index

106
all docs

106
docs citations

106
times ranked

719
citing authors

#	ARTICLE	IF	CITATIONS
1	A weak Galerkin finite element method for second-order elliptic problems. <i>Journal of Computational and Applied Mathematics</i> , 2013, 241, 103-115.	2.0	426
2	A weak Galerkin mixed finite element method for second order elliptic problems. <i>Mathematics of Computation</i> , 2014, 83, 2101-2126.	2.1	368
3	A weak Galerkin finite element method for the stokes equations. <i>Advances in Computational Mathematics</i> , 2016, 42, 155-174.	1.6	164
4	Nonconforming Galerkin methods based on quadrilateral elements for second order elliptic problems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 1999, 33, 747-770.	1.9	151
5	A Weak Galerkin Finite Element Method for the Maxwell Equations. <i>Journal of Scientific Computing</i> , 2015, 65, 363-386.	2.3	146
6	Weak Galerkin finite element methods for the biharmonic equation on polytopal meshes. <i>Numerical Methods for Partial Differential Equations</i> , 2014, 30, 1003-1029.	3.6	131
7	Weak Galerkin methods for second order elliptic interface problems. <i>Journal of Computational Physics</i> , 2013, 250, 106-125.	3.8	118
8	A weak Galerkin finite element method with polynomial reduction. <i>Journal of Computational and Applied Mathematics</i> , 2015, 285, 45-58.	2.0	105
9	Discontinuous Galerkin Finite Element Methods for Interface Problems: A Priori and A Posteriori Error Estimations. <i>SIAM Journal on Numerical Analysis</i> , 2011, 49, 1761-1787.	2.3	95
10	A computational study of the weak Galerkin method for second-order elliptic equations. <i>Numerical Algorithms</i> , 2013, 63, 753-777.	1.9	89
11	A new weak Galerkin finite element method for elliptic interface problems. <i>Journal of Computational Physics</i> , 2016, 325, 157-173.	3.8	89
12	A Weak Galerkin Finite Element Method for Singularly Perturbed Convection-Diffusion-Reaction Problems. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 1482-1497.	2.3	83
13	A stable nonconforming quadrilateral finite element method for the stationary Stokes and Navier-Stokes equations. <i>Calcolo</i> , 1999, 36, 215-232.	1.1	80
14	On the relationship between finite volume and finite element methods applied to the Stokes equations. <i>Numerical Methods for Partial Differential Equations</i> , 2001, 17, 440-453.	3.6	76
15	New Finite Element Methods in Computational Fluid Dynamics by H(div) Elements. <i>SIAM Journal on Numerical Analysis</i> , 2007, 45, 1269-1286.	2.3	74
16	A new weak Galerkin finite element method for the Helmholtz equation. <i>IMA Journal of Numerical Analysis</i> , 2015, 35, 1228-1255.	2.9	73
17	A stable numerical algorithm for the Brinkman equations by weak Galerkin finite element methods. <i>Journal of Computational Physics</i> , 2014, 273, 327-342.	3.8	67
18	Unified Analysis of Finite Volume Methods for Second Order Elliptic Problems. <i>SIAM Journal on Numerical Analysis</i> , 2007, 45, 1639-1653.	2.3	65

#	ARTICLE	IF	CITATIONS
19	A New Discontinuous Finite Volume Method for Elliptic Problems. SIAM Journal on Numerical Analysis, 2004, 42, 1062-1072.	2.3	58
20	A Discontinuous Finite Volume Method for the Stokes Problems. SIAM Journal on Numerical Analysis, 2006, 44, 183-198.	2.3	58
21	A C^0 -Weak Galerkin Finite Element Method for the Biharmonic Equation. Journal of Scientific Computing, 2014, 59, 473-495.	2.3	58
22	Weak Galerkin finite element methods for Darcy flow: Anisotropy and heterogeneity. Journal of Computational Physics, 2014, 276, 422-437.	3.8	54
23	A Posteriori Error Estimates for Weak Galerkin Finite Element Methods for Second Order Elliptic Problems. Journal of Scientific Computing, 2014, 59, 496-511.	2.3	53
24	A modified weak Galerkin finite element method for the Stokes equations. Journal of Computational and Applied Mathematics, 2015, 275, 79-90.	2.0	51
25	Superconvergence of Finite Element Approximations for the Stokes Problem by Projection Methods. SIAM Journal on Numerical Analysis, 2001, 39, 1001-1013.	2.3	42
26	A Numerical Study on the Weak Galerkin Method for the Helmholtz Equation. Communications in Computational Physics, 2014, 15, 1461-1479.	1.7	41
27	A Robust Numerical Method for Stokes Equations Based on Divergence-Free (div) Finite Element Methods. SIAM Journal of Scientific Computing, 2009, 31, 2784-2802.	2.8	38
28	A stabilizer-free weak Galerkin finite element method on polytopal meshes. Journal of Computational and Applied Mathematics, 2020, 371, 112699.	2.0	38
29	Superconvergence of nonconforming finite element method for the Stokes equations. Numerical Methods for Partial Differential Equations, 2002, 18, 143-154.	3.6	35
30	Unified Analysis of Finite Volume Methods for the Stokes Equations. SIAM Journal on Numerical Analysis, 2010, 48, 824-839.	2.3	32
31	A weak Galerkin finite element method for the Navier-Stokes equations. Journal of Computational and Applied Mathematics, 2019, 362, 614-625.	2.0	28
32	Weak Galerkin method for the Biot's consolidation model. Computers and Mathematics With Applications, 2018, 75, 2017-2030.	2.7	27
33	A Stabilizer Free Weak Galerkin Method for the Biharmonic Equation on Polytopal Meshes. SIAM Journal on Numerical Analysis, 2020, 58, 2572-2588.	2.3	27
34	A Stabilizer-Free, Pressure-Robust, and Superconvergence Weak Galerkin Finite Element Method for the Stokes Equations on Polytopal Mesh. SIAM Journal of Scientific Computing, 2021, 43, A2614-A2637.	2.8	24
35	An auxiliary space multigrid preconditioner for the weak Galerkin method. Computers and Mathematics With Applications, 2015, 70, 330-344.	2.7	23
36	Superconvergence of finite volume methods for the second order elliptic problem. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 3706-3712.	6.6	22

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37	An adaptive discontinuous finite volume method for elliptic problems. <i>Journal of Computational and Applied Mathematics</i> , 2011, 235, 5422-5431.	2.0	21
38	A Weak Galerkin Mixed Finite Element Method for Biharmonic Equations. <i>Springer Proceedings in Mathematics and Statistics</i> , 2013, , 247-277.	0.2	19
39	Interior penalty discontinuous Galerkin method on very general polygonal and polyhedral meshes. <i>Journal of Computational and Applied Mathematics</i> , 2014, 255, 432-440.	2.0	18
40	A stabilizer free weak Galerkin finite element method with supercloseness of order two. <i>Numerical Methods for Partial Differential Equations</i> , 2021, 37, 1012-1029.	3.6	18
41	Two-level discretizations of the stream function form of the navier-stokes equations. <i>Numerical Functional Analysis and Optimization</i> , 1999, 20, 909-916.	1.4	17
42	A mixed nonconforming finite element for linear elasticity. <i>Numerical Methods for Partial Differential Equations</i> , 2005, 21, 1043-1051.	3.6	16
43	A Least-Squares-Based Weak Galerkin Finite Element Method for Second Order Elliptic Equations. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, A1531-A1557.	2.8	16
44	A weak Galerkin least-squares finite element method for $\text{div}\hat{=}\text{curl}$ systems. <i>Journal of Computational Physics</i> , 2018, 363, 79-86.	3.8	16
45	Convergence of the discontinuous finite volume method for elliptic problems with minimal regularity. <i>Journal of Computational and Applied Mathematics</i> , 2012, 236, 4537-4546.	2.0	15
46	A discrete divergence-free basis for finite element methods. <i>Numerical Algorithms</i> , 1997, 16, 365-380.	1.9	14
47	Stabilized discontinuous finite element approximations for Stokes equations. <i>Journal of Computational and Applied Mathematics</i> , 2007, 198, 236-252.	2.0	13
48	Superconvergence of finite volume methods for the Stokes equations. <i>Numerical Methods for Partial Differential Equations</i> , 2009, 25, 1212-1230.	3.6	13
49	A hybridized formulation for the weak Galerkin mixed finite element method. <i>Journal of Computational and Applied Mathematics</i> , 2016, 307, 335-345.	2.0	13
50	A discrete divergence free weak Galerkin finite element method for the Stokes equations. <i>Applied Numerical Mathematics</i> , 2018, 125, 172-182.	2.1	13
51	A rectangular element for the Reissner-Mindlin plate. <i>Numerical Methods for Partial Differential Equations</i> , 2000, 16, 184-193.	3.6	12
52	A finite volume method for solving Navier-Stokes problems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2011, 74, 6686-6695.	1.1	12
53	Effective implementation of the weak Galerkin finite element methods for the biharmonic equation. <i>Computers and Mathematics With Applications</i> , 2017, 74, 1215-1222.	2.7	12
54	Development of a P_2 element with optimal L^2 convergence for biharmonic equation. <i>Numerical Methods for Partial Differential Equations</i> , 2019, 35, 1497-1508.	3.6	12

#	ARTICLE	IF	CITATIONS
73	Analysis and convergence of finite volume method using discontinuous bilinear functions. Numerical Methods for Partial Differential Equations, 2008, 24, 335-348.	3.6	7
74	A posteriori error estimates for finite volume method based on bilinear trial functions for the elliptic equation. Journal of Computational and Applied Mathematics, 2013, 254, 185-191.	2.0	7
75	A weak Galerkin generalized multiscale finite element method. Journal of Computational and Applied Mathematics, 2016, 305, 68-81.	2.0	7
76	An a posteriori error estimator for the weak Galerkin least-squares finite-element method. Journal of Computational and Applied Mathematics, 2019, 362, 383-399.	2.0	7
77	A conforming discontinuous Galerkin finite element method for the Stokes problem on polytopal meshes. International Journal for Numerical Methods in Fluids, 2021, 93, 1913-1928.	1.6	7
78	A numerical scheme with divergence free H-div triangular finite element for the Stokes equations. Applied Numerical Mathematics, 2021, 167, 211-217.	2.1	7
79	A stabilizer free weak Galerkin finite element method on polytopal mesh: Part III. Journal of Computational and Applied Mathematics, 2021, 394, 113538.	2.0	7
80	A discontinuous Galerkin method for the Reissner-Mindlin plate in the primitive variables. Applied Mathematics and Computation, 2004, 149, 65-82.	2.2	6
81	Discontinuous Stable Elements for the Incompressible Flow. Advances in Computational Mathematics, 2004, 20, 333-345.	1.6	6
82	A weak Galerkin finite element scheme with boundary continuity for second-order elliptic problems. Computers and Mathematics With Applications, 2017, 74, 2243-2252.	2.7	6
83	A Weak Galerkin Method for the Reissner-Mindlin Plate in Primary Form. Journal of Scientific Computing, 2018, 75, 782-802.	2.3	6
84	Development of Pressure-Robust Discontinuous Galerkin Finite Element Methods for the Stokes Problem. Journal of Scientific Computing, 2021, 89, 1.	2.3	6
85	A weak divergence CDG method for the biharmonic equation on triangular and tetrahedral meshes. Applied Numerical Mathematics, 2022, 178, 155-165.	2.1	6
86	A Modified Weak Galerkin Finite Element Method for the Biharmonic Equation on Polytopal Meshes. Communications on Applied Mathematics and Computation, 2021, 3, 91-105.	1.7	5
87	A C^0 -conforming DG finite element method for biharmonic equations on triangle/tetrahedron. Journal of Numerical Mathematics, 2021, 30, 163-172.	3.5	5
88	The construction of an optimal weakly divergence-free macroelement. International Journal for Numerical Methods in Engineering, 1993, 36, 2245-2262.	2.8	4
89	The derivation of minimal support basis functions for the discrete divergence operator. Journal of Computational and Applied Mathematics, 1995, 61, 105-116.	2.0	4
90	$\langle mml:math altimg="si4.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x$	2.7	4

