Weifeng Qiu

List of Publications by Year
in descending order

41 papers	1,008 citations	430442 18 h-index	433756 31 g-index
42 all docs	42 docs citations	42 times ranked	588 citing authors

#	Article	IF	Citations
1	A Convergent Post-processed Discontinuous Galerkin Method for Incompressible Flow with Variable Density. Journal of Scientific Computing, 2022, 91, 1.	1.1	7
2	Analysis of an interior penalty DG method for the quad-curl problem. IMA Journal of Numerical Analysis, 2021, 41, 2990-3023.	1.5	6
3	The Pointwise Stabilities of Piecewise Linear Finite Element Method on Non-obtuse Tetrahedral Meshes of Nonconvex Polyhedra. Journal of Scientific Computing, 2021, 87, 1.	1.1	2
4	Adaptive First-Order System Least-Squares Finite Element Methods for Second-Order Elliptic Equations in Nondivergence Form. SIAM Journal on Numerical Analysis, 2020, 58, 3286-3308.	1.1	5
5	On a class of generalized Monge–Ampère type equations. Communications in Contemporary Mathematics, 2020, 22, 1950005.	0.6	1
6	A mixed DG method and an HDG method for incompressible magnetohydrodynamics. IMA Journal of Numerical Analysis, 2020, 40, 1356-1389.	1.5	18
7	Analysis on an HDG Method for the p-Laplacian Equations. Journal of Scientific Computing, 2019, 80, 1019-1032.	1.1	5
8	A semi-implicit energy conserving finite element method for the dynamical incompressible magnetohydrodynamics equations. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 982-1001.	3.4	35
9	Parameter-free superconvergent H(div)-conforming HDG methods for the Brinkman equations. IMA Journal of Numerical Analysis, 2019, 39, 957-982.	1.5	20
10	A priori and computable a posteriori error estimates for an HDG method for the coercive Maxwell equations. Computer Methods in Applied Mechanics and Engineering, 2018, 333, 287-310.	3.4	27
11	Error Analysis of Mixed Finite Element Methods for Nonlinear Parabolic Equations. Journal of Scientific Computing, 2018, 77, 1660-1678.	1.1	15
12	Discrete H^1-Inequalities for Spaces Admitting M-Decompositions. SIAM Journal on Numerical Analysis, 2018, 56, 3407-3429.	1.1	4
13	Analysis of an SDG Method for the Incompressible Navier--Stokes Equations. SIAM Journal on Numerical Analysis, 2017, 55, 543-569.	1.1	12
14	An HDG method for linear elasticity with strong symmetric stresses. Mathematics of Computation, 2017, 87, 69-93.	1.1	51
15	A first order system least squares method for the Helmholtz equation. Journal of Computational and Applied Mathematics, 2017, 309, 145-162.	1.1	17
16	A Superconvergent HDG Method for the Maxwell Equations. Journal of Scientific Computing, 2017, 70, 1010-1029.	1.1	28
17	An absolutely stable hp-HDG method for the time-harmonic Maxwell equations with high wave number. Mathematics of Computation, 2016, 86, 1553-1577.	1.1	19
18	Analysis of a hybridizable discontinuous Galerkin method for the steady-state incompressible Navier-Stokes equations. Mathematics of Computation, 2016, 86, 1643-1670.	1.1	68

#	Article	IF	Citations
19	A High Order HDG Method for Curved-Interface Problems Via Approximations from Straight Triangulations. Journal of Scientific Computing, 2016, 69, 1384-1407.	1.1	21
20	An HDG Method for Convection Diffusion Equation. Journal of Scientific Computing, 2016, 66, 346-357.	1.1	41
21	A superconvergent HDG method for the incompressible Navier–Stokes equations on general polyhedral meshes. IMA Journal of Numerical Analysis, 2016, 36, 1943-1967.	1.5	58
22	Direct computation of stresses in linear elasticity. Journal of Computational and Applied Mathematics, 2016, 292, 363-368.	1.1	1
23	An analysis of HDG methods for convection-dominated diffusion problems. ESAIM: Mathematical Modelling and Numerical Analysis, 2015, 49, 225-256.	0.8	48
24	Mixed finite elements for elasticity on quadrilateral meshes. Advances in Computational Mathematics, 2015, 41, 553-572.	0.8	19
25	Atomic-size and lattice-distortion effects in newly developed high-entropy alloys with multiple principal elements. Intermetallics, 2015, 64, 63-69.	1.8	127
26	A dual Petrov–Galerkin finite element method for the convection–diffusion equation. Computers and Mathematics With Applications, 2014, 68, 1513-1529.	1.4	21
27	First order least squares method with weakly imposed boundary condition for convection dominated diffusion problems. Computers and Mathematics With Applications, 2014, 68, 1635-1652.	1.4	15
28	A priori error analysis for HDG methods using extensions from subdomains to achieve boundary conformity. Mathematics of Computation, 2013, 83, 665-699.	1.1	39
29	Commuting diagrams for the TNT elements on cubes. Mathematics of Computation, 2013, 83, 603-633.	1.1	8
30	Conditions for superconvergence of HDG methods for second-order elliptic problems. Mathematics of Computation, 2012, 81, 1327-1353.	1.1	87
31	Superconvergent HDG Methods on Isoparametric Elements for Second-Order Elliptic Problems. SIAM Journal on Numerical Analysis, 2012, 50, 1417-1432.	1.1	26
32	A locking-free $$hp$$ DPG method for linear elasticity with symmetric stresses. Numerische Mathematik, 2012, 122, 671-707.	0.9	49
33	Partial expansion of a Lipschitz domain and some applications. Frontiers of Mathematics in China, 2012, 7, 249-272.	0.4	13
34	Mixed variable order h-finite element method for linear elasticity with weakly imposed symmetry. Curvilinear elements in 2D. Computational Methods in Applied Mathematics, 2011, 11, 510-539.	0.4	4
35	Mixed hp-Finite Element Method for Linear Elasticity with Weakly Imposed Symmetry: Stability Analysis. SIAM Journal on Numerical Analysis, 2011, 49, 619-641.	1.1	20
36	Nonlinear transient dynamic analysis by explicit finite element with iterative consistent mass matrix. Communications in Numerical Methods in Engineering, 2009, 25, 201-217.	1.3	14

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37	G1-Interpolation and geometry reconstruction for higher order finite elements. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 1198-1212.	3.4	12
38	Mixed hp-finite element method for linear elasticity with weakly imposed symmetry. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3682-3701.	3.4	32
39	Fast Lithography Image Simulation By Exploiting Symmetries in Lithography Systems. IEEE Transactions on Semiconductor Manufacturing, 2008, 21, 638-645.	1.4	7
40	Robust *a posteriori* error estimates for HDG method for convection–diffusion equations. IMA Journal of Numerical Analysis, 0, , drv009.	1.5	3
41	A note on the devising of superconvergent HDG methods for Stokes flow by *M*-decompositions. IMA Journal of Numerical Analysis, 0, , drw029.	1.5	2