

# Weifeng Qiu

## List of Publications by Year in descending order

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41  
papers

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Atomic-size and lattice-distortion effects in newly developed high-entropy alloys with multiple principal elements. <i>Intermetallics</i> , 2015, 64, 63-69.	1.8	127
2	Conditions for superconvergence of HDG methods for second-order elliptic problems. <i>Mathematics of Computation</i> , 2012, 81, 1327-1353.	1.1	87
3	Analysis of a hybridizable discontinuous Galerkin method for the steady-state incompressible Navier-Stokes equations. <i>Mathematics of Computation</i> , 2016, 86, 1643-1670.	1.1	68
4	A superconvergent HDG method for the incompressible Navier–Stokes equations on general polyhedral meshes. <i>IMA Journal of Numerical Analysis</i> , 2016, 36, 1943-1967.	1.5	58
5	An HDG method for linear elasticity with strong symmetric stresses. <i>Mathematics of Computation</i> , 2017, 87, 69-93.	1.1	51
6	A locking-free $hp$ DPG method for linear elasticity with symmetric stresses. <i>Numerische Mathematik</i> , 2012, 122, 671-707.	0.9	49
7	An analysis of HDG methods for convection-dominated diffusion problems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2015, 49, 225-256.	0.8	48
8	An HDG Method for Convection Diffusion Equation. <i>Journal of Scientific Computing</i> , 2016, 66, 346-357.	1.1	41
9	A priori error analysis for HDG methods using extensions from subdomains to achieve boundary conformity. <i>Mathematics of Computation</i> , 2013, 83, 665-699.	1.1	39
10	A semi-implicit energy conserving finite element method for the dynamical incompressible magnetohydrodynamics equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 346, 982-1001.	3.4	35
11	Mixed $hp$ -finite element method for linear elasticity with weakly imposed symmetry. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 3682-3701.	3.4	32
12	A Superconvergent HDG Method for the Maxwell Equations. <i>Journal of Scientific Computing</i> , 2017, 70, 1010-1029.	1.1	28
13	A priori and computable a posteriori error estimates for an HDG method for the coercive Maxwell equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 333, 287-310.	3.4	27
14	Superconvergent HDG Methods on Isoparametric Elements for Second-Order Elliptic Problems. <i>SIAM Journal on Numerical Analysis</i> , 2012, 50, 1417-1432.	1.1	26
15	A dual Petrov–Galerkin finite element method for the convection–diffusion equation. <i>Computers and Mathematics With Applications</i> , 2014, 68, 1513-1529.	1.4	21
16	A High Order HDG Method for Curved-Interface Problems Via Approximations from Straight Triangulations. <i>Journal of Scientific Computing</i> , 2016, 69, 1384-1407.	1.1	21
17	Mixed $hp$ -Finite Element Method for Linear Elasticity with Weakly Imposed Symmetry: Stability Analysis. <i>SIAM Journal on Numerical Analysis</i> , 2011, 49, 619-641.	1.1	20
18	Parameter-free superconvergent $H(\text{div})$ -conforming HDG methods for the Brinkman equations. <i>IMA Journal of Numerical Analysis</i> , 2019, 39, 957-982.	1.5	20

#	ARTICLE	IF	CITATIONS
19	Mixed finite elements for elasticity on quadrilateral meshes. <i>Advances in Computational Mathematics</i> , 2015, 41, 553-572.	0.8	19
20	An absolutely stable $hp$ -HDC method for the time-harmonic Maxwell equations with high wave number. <i>Mathematics of Computation</i> , 2016, 86, 1553-1577.	1.1	19
21	A mixed DG method and an HDC method for incompressible magnetohydrodynamics. <i>IMA Journal of Numerical Analysis</i> , 2020, 40, 1356-1389.	1.5	18
22	A first order system least squares method for the Helmholtz equation. <i>Journal of Computational and Applied Mathematics</i> , 2017, 309, 145-162.	1.1	17
23	First order least squares method with weakly imposed boundary condition for convection dominated diffusion problems. <i>Computers and Mathematics With Applications</i> , 2014, 68, 1635-1652.	1.4	15
24	Error Analysis of Mixed Finite Element Methods for Nonlinear Parabolic Equations. <i>Journal of Scientific Computing</i> , 2018, 77, 1660-1678.	1.1	15
25	Nonlinear transient dynamic analysis by explicit finite element with iterative consistent mass matrix. <i>Communications in Numerical Methods in Engineering</i> , 2009, 25, 201-217.	1.3	14
26	Partial expansion of a Lipschitz domain and some applications. <i>Frontiers of Mathematics in China</i> , 2012, 7, 249-272.	0.4	13
27	$G_1$ -Interpolation and geometry reconstruction for higher order finite elements. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 1198-1212.	3.4	12
28	Analysis of an SDG Method for the Incompressible Navier–Stokes Equations. <i>SIAM Journal on Numerical Analysis</i> , 2017, 55, 543-569.	1.1	12
29	Commuting diagrams for the TNT elements on cubes. <i>Mathematics of Computation</i> , 2013, 83, 603-633.	1.1	8
30	Fast Lithography Image Simulation By Exploiting Symmetries in Lithography Systems. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2008, 21, 638-645.	1.4	7
31	A Convergent Post-processed Discontinuous Galerkin Method for Incompressible Flow with Variable Density. <i>Journal of Scientific Computing</i> , 2022, 91, 1.	1.1	7
32	Analysis of an interior penalty DG method for the quad-curl problem. <i>IMA Journal of Numerical Analysis</i> , 2021, 41, 2990-3023.	1.5	6
33	Analysis on an HDC Method for the $p$ -Laplacian Equations. <i>Journal of Scientific Computing</i> , 2019, 80, 1019-1032.	1.1	5
34	Adaptive First-Order System Least-Squares Finite Element Methods for Second-Order Elliptic Equations in Nondivergence Form. <i>SIAM Journal on Numerical Analysis</i> , 2020, 58, 3286-3308.	1.1	5
35	Mixed variable order $h$ -finite element method for linear elasticity with weakly imposed symmetry. Curvilinear elements in 2D. <i>Computational Methods in Applied Mathematics</i> , 2011, 11, 510-539.	0.4	4
36	Discrete $H^1$ -Inequalities for Spaces Admitting $M$ -Decompositions. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 3407-3429.	1.1	4

#	ARTICLE	IF	CITATIONS
37	Robust <i>a posteriori</i> error estimates for HDG method for convection–diffusion equations. IMA Journal of Numerical Analysis, 0, , drv009.	1.5	3
38	A note on the devising of superconvergent HDG methods for Stokes flow by <i>M</i> -decompositions. IMA Journal of Numerical Analysis, 0, , drw029.	1.5	2
39	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
40	Direct computation of stresses in linear elasticity. Journal of Computational and Applied Mathematics, 2016, 292, 363-368.	1.1	1
41	On a class of generalized Monge–Ampère type equations. Communications in Contemporary Mathematics, 2020, 22, 1950005.	0.6	1