Qingsong Zou

List of Publications by Year
in descending order

35 papers	554 citations	687363 13 h-index	642732 23 g-index
36 all docs	36 docs citations	36 times ranked	176 citing authors

#	Article	IF	Citations
1	Analysis of linear and quadratic simplicial finite volume methods for elliptic equations. Numerische Mathematik, 2009, 111, 469-492.	1.9	115
2	Superconvergence of Discontinuous Galerkin Methods for Linear Hyperbolic Equations. SIAM Journal on Numerical Analysis, 2014, 52, 2555-2573.	2.3	59
3	Vertex-centered finite volume schemes of any order over quadrilateral meshes for elliptic boundary value problems. Numerische Mathematik, 2015, 130, 363-393.	1.9	54
4	L^2 Error Estimates for a Class of Any Order Finite Volume Schemes Over Quadrilateral Meshes. SIAM Journal on Numerical Analysis, 2015, 53, 2030-2050.	2.3	32
5	Superconvergence of Any Order Finite Volume Schemes for 1D General Elliptic Equations. Journal of Scientific Computing, 2013, 56, 566-590.	2.3	27
6	Hierarchical error estimates for the energy functional in obstacle problems. Numerische Mathematik, 2011, 117, 653-677.	1.9	23
7	A Family of Finite Volume Schemes of Arbitrary Order on Rectangular Meshes. Journal of Scientific Computing, 2014, 58, 308-330.	2.3	21
8	Is 2k-Conjecture Valid for Finite Volume Methods?. SIAM Journal on Numerical Analysis, 2015, 53, 942-962.	2.3	21
9	A C^0 Linear Finite Element Method for Biharmonic Problems. Journal of Scientific Computing, 2018, 74, 1397-1422.	2.3	20
10	An Unconditionally Stable Quadratic Finite Volume Scheme over Triangular Meshes for Elliptic Equations. Journal of Scientific Computing, 2017, 70, 112-124.	2.3	18
11	Polynomial preserving recovery on boundary. Journal of Computational and Applied Mathematics, 2016, 307, 119-133.	2.0	17
12	Superconvergence of Immersed Finite Volume Methods for One-Dimensional Interface Problems. Journal of Scientific Computing, 2017, 73, 543-565.	2.3	14
13	Hessian recovery based finite element methods for the Cahn-Hilliard equation. Journal of Computational Physics, 2019, 386, 524-540.	3.8	14
14	Hierarchical error estimates for finite volume approximation solution of elliptic equations. Applied Numerical Mathematics, 2010, 60, 142-153.	2.1	12
15	Multilevel preconditioning for the finite volume method. Mathematics of Computation, 2012, 81, 1399-1428.	2.1	12
16	Efficient and reliable hierarchical error estimates for the discretization error of elliptic obstacle problems. Mathematics of Computation, 2010, 80, 69-88.	2.1	12
17	Some recent advances on vertex centered finite volume element methods for elliptic equations. Science China Mathematics, 2013, 56, 2507-2522.	1.7	11
18	Ultraconvergence of high order FEMs for elliptic problems with variable coefficients. Numerische Mathematik, 2017, 136, 215-248.	1.9	11

#	Article	IF	Citations
19	Maximum-norms error estimates for high-order finite volume schemes over quadrilateral meshes. Numerische Mathematik, 2018, 138, 473-500.	1.9	11
20	High Order Continuous Local-Conserving Fluxes and Finite-Volume-Like Finite Element Solutions for Elliptic Equations. SIAM Journal on Numerical Analysis, 2017, 55, 2666-2686.	2.3	9
21	Variational Graph Embedding and Clustering with Laplacian Eigenmaps. , 2019, , .		9
22	Unified analysis of higher-order finite volume methods for parabolic problems on quadrilateral meshes. IMA Journal of Numerical Analysis, 2016, 36, 872-896.	2.9	5
23	A Recovery Based Linear Finite Element Method For 1D Bi-Harmonic Problems. Journal of Scientific Computing, 2016, 68, 375-394.	2.3	4
24	A C^0 linear finite element method for two fourth-order eigenvalue problems. IMA Journal of Numerical Analysis, 2016, , drw051.	2.9	4
25	A Conservative Flux Optimization Finite Element Method for Convection-diffusion Equations. SIAM Journal on Numerical Analysis, 2019, 57, 1238-1262.	2.3	4
26	Local superconvergence of post-processed high-order finite volume element solutions. Advances in Computational Mathematics, 2020, 46, 1.	1.6	3
27	A class of finite volume schemes of arbitrary order on nonuniform meshes. Numerical Methods for Partial Differential Equations, 2014, 30, 1614-1632.	3.6	2
28	A postprocessed flux conserving finite element solution. Numerical Methods for Partial Differential Equations, 2017, 33, 1859-1883.	3.6	2
29	Interior Estimates of Finite Volume Element Methods Over Quadrilateral Meshes for Elliptic Equations. SIAM Journal on Numerical Analysis, 2019, 57, 2246-2265.	2.3	2
30	Efficient and reliable hierarchical error estimates for an elliptic obstacle problem. Applied Numerical Mathematics, 2011, 61, 344-355.	2.1	1
31	A Novel Hierarchial Error Estimate for Elliptic Obstacle Problems. Journal of Scientific Computing, 2013, 54, 77-96.	2.3	1
32	Superconvergence analysis of the MAC scheme for the two dimensional stokes problem. Numerical Methods for Partial Differential Equations, 2016, 32, 1647-1666.	3.6	1
33	Analysis of Spectral Volume Methods for 1D Linear Scalar Hyperbolic Equations. Journal of Scientific Computing, 2022, 90, 1.	2.3	1
34	Analysis of ap-version finite volume method for 1D elliptic problems. Journal of Computational and Applied Mathematics, 2014, 265, 17-32.	2.0	0
35	An Adaptive Time Stepping Algorithm and Its Application to Platelet Aggregation Simulation. , 2021, , .		0