Nianyu Yi

List of Publications by Year
in descending order

33 papers	489 citations
759055 12 h-index	677027 22 g-index
33 all docs	33 docs citations
33 times ranked	284 citing authors

#	Article	IF	Citations
1	A mass- and energy-conserved DG method for the Schrödinger-Poisson equation. Numerical Algorithms, 2022, 89, 905-930.	1.1	0
2	Error analysis of a decoupled, linear and stable finite element method for Cahn–Hilliard–Navier–Stokes equations. Applied Mathematics and Computation, 2022, 421, 126928.	1.4	1
3	Analysis of a goal-oriented adaptive two-grid finite-element algorithm for semilinear elliptic problems. Computational and Applied Mathematics, 2022, 41, 1.	1.0	1
4	A characteristic block-centered finite difference method for Darcy-Forchheimer compressible miscible displacement problem. Journal of Computational and Applied Mathematics, 2022, , 114303.	1.1	2
5	A posteriori error estimates of goal-oriented adaptive finite element methods for nonlinear reaction–diffusion problems. Journal of Computational and Applied Mathematics, 2022, 412, 114362.	1.1	1
6	Adaptive direct discontinuous Galerkin method for elliptic equations. Computers and Mathematics With Applications, 2021, 97, 394-415.	1.4	2
7	Recovery type a posteriori error estimation of adaptive finite element method for Allen–Cahn equation. Journal of Computational and Applied Mathematics, 2020, 369, 112574.	1.1	19
8	Superconvergent recovery of edge finite element approximation for Maxwell's equations. Computer Methods in Applied Mechanics and Engineering, 2020, 371, 113302.	3.4	6
9	On accuracy of the mass-preserving DG method to multi-dimensional Schrödinger equations. IMA Journal of Numerical Analysis, 2019, 39, 760-791.	1.5	10
10	Superconvergence of the Crouzeix-Raviart element for elliptic equation. Advances in Computational Mathematics, 2019, 45, 2833-2844.	0.8	2
11	Superconvergent Recovery of Rectangular Edge Finite Element Approximation by Local Symmetry Projection. Journal of Scientific Computing, 2019, 81, 1602-1629.	1.1	2
12	A SCR-based error estimation and adaptive finite element method for the Allen–Cahn equation. Computers and Mathematics With Applications, 2019, 78, 204-223.	1.4	23
13	A Conservative Discontinuous Galerkin Method for Nonlinear Electromagnetic Schrödinger Equations. SIAM Journal of Scientific Computing, 2019, 41, B1389-B1411.	1.3	4
14	An unconditionally energy stable second order finite element method for solving the Allen–Cahn equation. Journal of Computational and Applied Mathematics, 2019, 353, 38-48.	1.1	24
15	Function, Derivative and High-Order Derivatives Recovery Methods Using the Local Symmetry Projection. Journal of Scientific Computing, 2018, 74, 536-572.	1.1	5
16	Mesh Quality and More Detailed Error Estimates of Finite Element Method. Numerical Mathematics, 2017, 10, 420-436.	0.6	3
17	A Hamiltonian preserving discontinuous Galerkin method for the generalized Korteweg–de Vries equation. Journal of Computational Physics, 2016, 321, 776-796.	1.9	27
18	Adjoint-based an adaptive finite volume method for steady Euler equations with non-oscillatory k-exact reconstruction. Computers and Fluids, 2016, 139, 174-183.	1.3	9

#	Article	IF	Citations
19	An adaptive finite volume solver for steady Euler equations with non-oscillatory k-exact reconstruction. Journal of Computational Physics, 2016, 312, 235-251.	1.9	10
20	Superconvergence analysis for the explicit polynomial recovery method. Journal of Computational and Applied Mathematics, 2014, 265, 187-198.	1.1	53
21	A conservative discontinuous Galerkin method for the Degasperis-Procesi equation. Methods and Applications of Analysis, 2014, 21, 67-90.	0.1	8
22	Variational discretization for optimal control problems governed by parabolic equations. Journal of Systems Science and Complexity, 2013, 26, 902-924.	1.6	3
23	Anisotropic mesh generation methods based on ACVT and natural metric for anisotropic elliptic equation. Science China Mathematics, 2013, 56, 2615-2630.	0.8	3
24	A direct discontinuous Galerkin method for the generalized Korteweg–de Vries equation: Energy conservation and boundary effect. Journal of Computational Physics, 2013, 242, 351-366.	1.9	35
25	Some Weighted Averaging Methods for Gradient Recovery. Advances in Applied Mathematics and Mechanics, 2012, 4, 131-155.	0.7	18
26	Recovery of normal derivatives from the piecewise L2 projection. Journal of Computational Physics, 2012, 231, 1230-1243.	1.9	15
27	A Legendre–Galerkin Spectral Method for Optimal Control Problems Governed by Stokes Equations. SIAM Journal on Numerical Analysis, 2011, 49, 1625-1648.	1.1	35
28	A Legendre Galerkin spectral method for optimal control problems. Journal of Systems Science and Complexity, 2011, 24, 663-671.	1.6	6
29	Error estimates of mixed finite element methods for quadratic optimal control problems. Journal of Computational and Applied Mathematics, 2010, 233, 1812-1820.	1.1	7
30	High order compact schemes for gradient approximation. Science China Mathematics, 2010, 53, 1903-1918.	0.8	4
31	The Superconvergent Cluster Recovery Method. Journal of Scientific Computing, 2010, 44, 301-322.	1.1	29
32	A posteriori error estimates of spectral method for optimal control problems governed by parabolic equations. Science in China Series A: Mathematics, 2008, 51, 1376-1390.	0.5	23
33	A Legendre–Galerkin Spectral Method for Optimal Control Problems Governed by Elliptic Equations. SIAM Journal on Numerical Analysis, 2008, 46, 2254-2275.	1.1	99