Guanghui Hu

List of Publications by Year
in descending order

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26	544	933447 10	610901 24
papers	citations	h-index	g-index

27	27	27	604
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Robust WENO Type Finite Volume Solver for Steady Euler Equations on Unstructured Grids. Communications in Computational Physics, 2011, 9, 627-648.	1.7	301
2	An h-adaptive finite element solver for the calculations of the electronic structures. Journal of Computational Physics, 2012, 231, 4967-4979.	3.8	62
3	A multilevel correction adaptive finite element method for Kohnâ€“Sham equation. Journal of Computational Physics, 2018, 355, 436-449.	3.8	23
4	Numerical Solution of the Kohn-Sham Equation by Finite Element Methods with an Adaptive Mesh Redistribution Technique. Journal of Scientific Computing, 2013, 55, 372-391.	2.3	19
5	An adaptive finite volume method for 2D steady Euler equations with WENO reconstruction. Journal of Computational Physics, 2013, 252, 591-605.	3.8	17
6	Moving Finite Element Simulations for Reaction-Diffusion Systems. Advances in Applied Mathematics and Mechanics, 2012, 4, 365-381.	1.2	16
7	A robust high-order residual distribution type scheme for steady Euler equations on unstructured grids. Journal of Computational Physics, 2010, 229, 1681-1697.	3.8	14
8	High Order Well-Balanced Weighted Compact Nonlinear Schemes for Shallow Water Equations. Communications in Computational Physics, 2017, 22, 1049-1068.	1.7	12
9	Simulating finger phenomena in porous media with a moving finite element method. Journal of Computational Physics, 2011, 230, 3249-3263.	3.8	10
10	An adaptive finite volume solver for steady Euler equations with non-oscillatory k-exact reconstruction. Journal of Computational Physics, 2016, 312, 235-251.	3.8	10
11	Real-time adaptive finite element solution of time-dependent Kohnâ€“Sham equation. Journal of Computational Physics, 2015, 281, 743-758.	3.8	9
12	Adjoint-based an adaptive finite volume method for steady Euler equations with non-oscillatory k -exact reconstruction. Computers and Fluids, 2016, 139, 174-183.	2.5	9
13	A numerical study of 2D detonation waves with adaptive finite volume methods on unstructured grids. Journal of Computational Physics, 2017, 331, 297-311.	3.8	7
14	A Robust High Order Alternative WENO Scheme for the Five-Equation Model. Journal of Scientific Computing, 2021, 88, 1.	2.3	7
15	A NURBS-enhanced finite volume solver for steady Euler equations. Journal of Computational Physics, 2018, 359, 77-92.	3.8	6
16	An adaptive FEM with ITP approach for steady SchrÃ¶dinger equation. International Journal of Computer Mathematics, 2018, 95, 187-201.	1.8	4
17	Towards Translational Invariance of Total Energy with Finite Element Methods for Kohn-Sham Equation. Communications in Computational Physics, 2016, 19, 1-23.	1.7	3
18	The Wigner function of ground state and one-dimensional numerics. Journal of Computational Physics, 2022, 449, 110780.	3.8	3

#	Article	IF	Citations
19	An Asymptotics-Based Adaptive Finite Element Method for Kohnâ€“Sham Equation. Journal of Scientific Computing, 2019, 79, 464-492.	2.3	2
20	Integrated Linear Reconstruction for Finite Volume Scheme on Arbitrary Unstructured Grids. Communications in Computational Physics, 2018, 24, .	1.7	2
21	High Order Finite Difference Alternative WENO Scheme for Multi-component Flows. Journal of Scientific Computing, 2021, 89, 1.	2.3	2
22	A Fourth-Order Unstructured NURBS-Enhanced Finite Volume WENO Scheme for Steady Euler Equations in Curved Geometries. Communications on Applied Mathematics and Computation, 2023, 5, 315-342.	1.7	2
23	An Orthogonalization-Free Parallelizable Framework for All-Electron Calculations in Density Functional Theory. SIAM Journal of Scientific Computing, 2022, 44, B723-B745.	2.8	2
24	A Third Order Adaptive ADER Scheme for One Dimensional Conservation Laws. Communications in Computational Physics, 2017, 22, 829-851.	1.7	1
25	High Order Well-Balanced Weighted Compact Nonlinear Schemes for the Gas Dynamic Equations under Gravitational Fields. East Asian Journal on Applied Mathematics, 2017, 7, 697-713.	0.9	0
26	On Robust and Adaptive Finite Volume Methods for Steady Euler Equations. Springer Proceedings in Mathematics and Statistics, 2018, , 21-40.	0.2	0