

Zhengfu Xu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11186107/publications.pdf>

Version: 2024-02-01

17
papers

581
citations

687363

13
h-index

888059

17
g-index

17
all docs

17
docs citations

17
times ranked

286
citing authors

#	ARTICLE	IF	CITATIONS
1	Anti-diffusive flux corrections for high order finite difference WENO schemes. <i>Journal of Computational Physics</i> , 2005, 205, 458-485.	3.8	122
2	Parametrized maximum principle preserving flux limiters for high order schemes solving hyperbolic conservation laws: one-dimensional scalar problem. <i>Mathematics of Computation</i> , 2013, 83, 2213-2238.	2.1	69
3	Parametrized Positivity Preserving Flux Limiters for the High Order Finite Difference WENO Scheme Solving Compressible Euler Equations. <i>Journal of Scientific Computing</i> , 2016, 67, 1066-1088.	2.3	53
4	A parametrized maximum principle preserving flux limiter for finite difference RK-WENO schemes with applications in incompressible flows. <i>Journal of Computational Physics</i> , 2013, 252, 310-331.	3.8	43
5	Positivity-Preserving Finite Difference Weighted ENO Schemes with Constrained Transport for Ideal Magnetohydrodynamic Equations. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A1825-A1845.	2.8	43
6	High order maximum principle preserving semi-Lagrangian finite difference WENO schemes for the Vlasov equation. <i>Journal of Computational Physics</i> , 2014, 273, 618-639.	3.8	39
7	High order parametrized maximum-principle-preserving and positivity-preserving WENO schemes on unstructured meshes. <i>Journal of Computational Physics</i> , 2015, 281, 334-351.	3.8	37
8	Parametrized Maximum Principle Preserving Flux Limiters for High Order Schemes Solving Multi-Dimensional Scalar Hyperbolic Conservation Laws. <i>Journal of Scientific Computing</i> , 2014, 58, 41-60.	2.3	35
9	Variational Models of Network Formation and Ion Transport: Applications to Perfluorosulfonate Ionomer Membranes. <i>Polymers</i> , 2012, 4, 630-655.	4.5	33
10	High Order Maximum-Principle-Preserving Discontinuous Galerkin Method for Convection-Diffusion Equations. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A583-A608.	2.8	31
11	Parametrized Maximum Principle Preserving Limiter for Finite Difference WENO Schemes Solving Convection-Dominated Diffusion Equations. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, A2524-A2553.	2.8	18
12	Local Discontinuous Galerkin Methods for the Functionalized Cahn-Hilliard Equation. <i>Journal of Scientific Computing</i> , 2015, 63, 913-937.	2.3	14
13	An Explicit High-Order Single-Stage Single-Step Positivity-Preserving Finite Difference WENO Method for the Compressible Euler Equations. <i>Journal of Scientific Computing</i> , 2016, 68, 171-190.	2.3	14
14	A numerical scheme for nonlinear Helmholtz equations with strong nonlinear optical effects. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010, 27, 2347.	1.5	13
15	High Order Maximum Principle Preserving Finite Volume Method for Convection Dominated Problems. <i>Journal of Scientific Computing</i> , 2016, 67, 795-820.	2.3	11
16	Total variation bounded flux limiters for high order finite difference schemes solving one-dimensional scalar conservation laws. <i>Mathematics of Computation</i> , 2018, 88, 691-716.	2.1	4
17	Continuation Finite Element Simulation of Second Harmonic Generation in Photonic Crystals. <i>Communications in Computational Physics</i> , 2011, 10, 57-69.	1.7	2