Tao Xiong

List of Publications by Year
in descending order

16 papers	345 citations	840776 11 h-index	996975 15 g-index
16 all docs	16 docs citations	16 times ranked	192 citing authors

#	Article	IF	Citations
1	Parametrized Positivity Preserving Flux Limiters for the High Order Finite Difference WENO Scheme Solving Compressible Euler Equations. Journal of Scientific Computing, 2016, 67, 1066-1088.	2.3	53
2	A parametrized maximum principle preserving flux limiter for finite difference RK-WENO schemes with applications in incompressible flows. Journal of Computational Physics, 2013, 252, 310-331.	3.8	43
3	High order maximum principle preserving semi-Lagrangian finite difference WENO schemes for the Vlasov equation. Journal of Computational Physics, 2014, 273, 618-639.	3.8	39
4	A positivity-preserving high order finite volume compact-WENO scheme for compressible Euler equations. Journal of Computational Physics, 2014, 274, 505-523.	3.8	32
5	High Order Maximum-Principle-Preserving Discontinuous Galerkin Method for Convection-Diffusion Equations. SIAM Journal of Scientific Computing, 2015, 37, A583-A608.	2.8	31
6	A high order semi-implicit IMEX WENO scheme for the all-Mach isentropic Euler system. Journal of Computational Physics, 2019, 392, 594-618.	3.8	27
7	Analysis of Asymptotic Preserving DG-IMEX Schemes for Linear Kinetic Transport Equations in a Diffusive Scaling. SIAM Journal on Numerical Analysis, 2014, 52, 2048-2072.	2.3	23
8	High order asymptotic preserving DG-IMEX schemes for discrete-velocity kinetic equations in a diffusive scaling. Journal of Computational Physics, 2015, 281, 199-224.	3.8	22
9	High order asymptotic preserving nodal discontinuous Galerkin IMEX schemes for the BGK equation. Journal of Computational Physics, 2015, 284, 70-94.	3.8	20
10	A Maximum-Principle-Satisfying High-Order Finite Volume Compact WENO Scheme for Scalar Conservation Laws with Applications in Incompressible Flows. Journal of Scientific Computing, 2015, 65, 83-109.	2.3	12
11	High Order Maximum Principle Preserving Finite Volume Method for Convection Dominated Problems. Journal of Scientific Computing, 2016, 67, 795-820.	2.3	11
12	High Order Semi-implicit WENO Schemes for All-Mach Full Euler System of Gas Dynamics. SIAM Journal of Scientific Computing, 2022, 44, B368-B394.	2.8	11
13	High order well-balanced asymptotic preserving finite difference WENO schemes for the shallow water equations in all Froude numbers. Journal of Computational Physics, 2022, 463, 111255.	3.8	11
14	High order asymptotic preserving discontinuous Galerkin methods for gray radiative transfer equations. Journal of Computational Physics, 2022, 463, 111308.	3.8	6
15	High order semi-implicit weighted compact nonlinear scheme for the all-Mach isentropic Euler system. Advances in Aerodynamics, 2020, 2, .	2.5	4
16	Rungeâ€“Kutta central discontinuous Galerkin BGK method for the Navierâ€–Stokes equations. Journal of Computational Physics, 2014, 274, 592-610.	3.8	0