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	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
2	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
3	High order asymptotic preserving discontinuous Galerkin methods for gray radiative transfer equations. Journal of Computational Physics, 2022, 463, 111308.	3.8	6
4	High order semi-implicit weighted compact nonlinear scheme for the all-Mach isentropic Euler system. Advances in Aerodynamics, 2020, 2, .	2.5	4
5	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
6	High Order Maximum Principle Preserving Finite Volume Method for Convection Dominated Problems. Journal of Scientific Computing, 2016, 67, 795-820.	2.3	11
7	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
8	High order asymptotic preserving nodal discontinuous Galerkin IMEX schemes for the BGK equation. Journal of Computational Physics, 2015, 284, 70-94.	3.8	20
9	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
10	High Order Maximum-Principle-Preserving Discontinuous Galerkin Method for Convection-Diffusion Equations. SIAM Journal of Scientific Computing, 2015, 37, A583-A608.	2.8	31
11	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
12	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
13	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
14	Runge–Kutta central discontinuous Galerkin BGK method for the Navier–Stokes equations. Journal of Computational Physics, 2014, 274, 592-610.	3.8	0
15	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
16	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