Jiequan Li

List of Publications by Year in descending order

40 papers	1,154 citations	471509 17 h-index	395702 33 g-index
41 all docs	41 docs citations	41 times ranked	279 citing authors

#	Article	IF	Citations
1	Interaction of Rarefaction Waves of the Two-Dimensional Self-Similar Euler Equations. Archive for Rational Mechanics and Analysis, 2009, 193, 623-657.	2.4	119
2	Simple Waves and a Characteristic Decomposition of the Two Dimensional Compressible Euler Equations. Communications in Mathematical Physics, 2006, 267, 1-12.	2.2	108
3	A Two-Stage Fourth Order Time-Accurate Discretization for Lax–Wendroff Type Flow Solvers I. Hyperbolic Conservation Laws. SIAM Journal of Scientific Computing, 2016, 38, A3046-A3069.	2.8	100
4	A direct Eulerian GRP scheme for compressible fluid flows. Journal of Computational Physics, 2006, 218, 19-43.	3.8	97
5	Interaction of Four Rarefaction Waves in the Bi-Symmetric Class of the Two-Dimensional Euler Equations. Communications in Mathematical Physics, 2010, 296, 303-321.	2.2	91
6	An efficient and accurate two-stage fourth-order gas-kinetic scheme for the Euler and Navierâ€“Stokes equations. Journal of Computational Physics, 2016, 326, 197-221.	3.8	84
7	Hyperbolic balance laws: Riemann invariants and the generalized Riemann problem. Numerische Mathematik, 2007, 106, 369-425.	1.9	70
8	The generalized Riemann problem method for the shallow water equations with bottom topography. International Journal for Numerical Methods in Engineering, 2006, 65, 834-862.	2.8	52
9	Comparison of the generalized Riemann solver and the gas-kinetic scheme for inviscid compressible flow simulations. Journal of Computational Physics, 2011, 230, 5080-5099.	3.8	43
10	Degenerate Goursat-type boundary value problems arising from the study of two-dimensional isothermal Euler equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2012, 63, 1021-1046.	1.4	40
11	A Hermite WENO reconstruction for fourth order temporal accurate schemes based on the GRP solver for hyperbolic conservation laws. Journal of Computational Physics, 2018, 355, 385-396.	3.8	34
12	Accuracy of the Adaptive GRP Scheme and the Simulation of 2-D Riemann Problems for Compressible Euler Equations. Communications in Computational Physics, 2011, 10, 577-609.	1.7	33
13	The generalized Riemann problems for compressible fluid flows: Towards high order. Journal of Computational Physics, 2014, 259, 358-389.	3.8	31
14	An adaptive GRP scheme for compressible fluid flows. Journal of Computational Physics, 2010, 229, 1448-1466.	3.8	27
15	Implementation of the GRP scheme for computing radially symmetric compressible fluid flows. Journal of Computational Physics, 2009, 228, 5867-5887.	3.8	26
16	An efficient, second order accurate, universal generalized Riemann problem solver based on the HLLI Riemann solver. Journal of Computational Physics, 2018, 375, 1238-1269.	3.8	24
17	Sonic-Supersonic Solutions for the Two-Dimensional Steady Full Euler Equations. Archive for Rational Mechanics and Analysis, 2020, 235, 1819-1871.	2.4	20
18	A two-stage fourth order time-accurate discretization for Laxâ€“Wendroff type flow solvers II. High order numerical boundary conditions. Journal of Computational Physics, 2018, 369, 125-147.	3.8	18

#	Article	IF	Citations
19	Two-stage fourth order: temporal-spatial coupling in computational fluid dynamics (CFD). Advances in Aerodynamics, 2019, 1, .	2.5	17
20	Thermodynamical effects and high resolution methods for compressible fluid flows. Journal of Computational Physics, 2017, 343, 340-354.	3.8	16
21	Remark on the generalized Riemann problem method for compressible fluid flows. Journal of Computational Physics, 2007, 222, 796-808.	3.8	15
22	A Few Benchmark Test Cases for Higher-Order Euler Solvers. Numerical Mathematics, 2017, 10, 711-736.	1.3	15
23	A two-stage fourth-order discontinuous Galerkin method based on the GRP solver for the compressible euler equations. Computers and Fluids, 2019, 181, 248-258.	2.5	12
24	A non-oscillatory energy-splitting method for the computation of compressible multi-fluid flows. Physics of Fluids, 2018, 30, .	4.0	10
25	Transversal effects of high order numerical schemes for compressible fluid flows. Applied Mathematics and Mechanics (English Edition), 2019, 40, 343-354.	3.6	9
26	Evolution Galerkin schemes applied to two-dimensional Riemann problems for the wave equation system. Discrete and Continuous Dynamical Systems, 2003, 9, 559-576.	0.9	7
27	Accelerated Piston Problem and High Order Moving Boundary Tracking Method for Compressible Fluid Flows. SIAM Journal of Scientific Computing, 2020, 42, A1558-A1581.	2.8	5
28	Consistency of finite volume approximations to nonlinear hyperbolic balance laws. Mathematics of Computation, 2021, 90, 141-169.	2.1	5
29	Remapping-Free Adaptive GRP Method for Multi-Fluid Flows I: One Dimensional Euler Equations. Communications in Computational Physics, 2014, 15, 1029-1044.	1.7	4
30	The simulation of compressible multi-fluid flows by a GRP-based energy-splitting method. Computers and Fluids, 2019, 181, 416-428.	2.5	4
31	On a supersonic-sonic patch arising from the frankl problem in transonic flows. Communications on Pure and Applied Analysis, 2021, 20, 2643.	0.8	3
32	A staggered-projection Godunov-type method for the Baer-Nunziato two-phase model. Journal of Computational Physics, 2021, 437, 110312.	3.8	3
33	Two-stage fourth-order gas kinetic solver-based compact subcell finite volume method for compressible flows on triangular meshes. Physics of Fluids, 2021, 33, .	4.0	3
34	Fundamentals of Lax-Wendroff Type Approach to Hyperbolic Problems with Discontinuities. Advances in Applied Mathematics and Mechanics, 2019, 11, 571-582.	1.2	2
35	A two-stage fourth-order gas-kinetic CPR method for the Navier-Stokes equations on triangular meshes. Journal of Computational Physics, 2021, 451, 110830.	3.8	2
36	One-sided GRP solver and numerical boundary conditions for compressible fluid flows. Journal of Computational Physics, 2022, 459, 111138.	3.8	2

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37	Dissipation matrix and artificial heat conduction for Godunovâ€type schemes of compressible fluid flows. International Journal for Numerical Methods in Fluids, 2017, 84, 57-75.	1.6	1
38	A fully discrete ALE method over untwisted timeâ€“space control volumes. International Journal for Numerical Methods in Fluids, 2017, 83, 625-641.	1.6	1
39	Entropy convergence of new two-value scheme with slope relaxation for conservation laws. Applied Mathematics and Mechanics (English Edition), 2016, 37, 1551-1570.	3.6	0
40	High order temporal-spatially coupled schemes for compressible multi-fluid flows. AIP Conference Proceedings, 2019, , .	0.4	0