Praveen Chandrashekar

List of Publications by Year
in descending order

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40	697	759233 12	552781 26
papers	citations	h-index	g-index

40	40	40	334
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kinetic Energy Preserving and Entropy Stable Finite Volume Schemes for Compressible Euler and Navier-Stokes Equations. Communications in Computational Physics, 2013, 14, 1252-1286.	1.7	183
2	A Second Order Well-Balanced Finite Volume Scheme for Euler Equations with Gravity. SIAM Journal of Scientific Computing, 2015, 37, B382-B402.	2.8	68
3	Entropy Stable Finite Volume Scheme for Ideal Compressible MHD on 2-D Cartesian Meshes. SIAM Journal on Numerical Analysis, 2016, 54, 1313-1340.	2.3	62
4	Entropy Stable Scheme on Two-Dimensional Unstructured Grids for Euler Equations. Communications in Computational Physics, 2016, 19, 1111-1140.	1.7	36
5	Iterative surrogate model optimization (ISMO): An active learning algorithm for PDE constrained optimization with deep neural networks. Computer Methods in Applied Mechanics and Engineering, 2021, 374, 113575.	6.6	35
6	Well-Balanced Nodal Discontinuous Galerkin Method for Euler Equations with Gravity. Journal of Scientific Computing, 2017, 71, 1062-1093.	2.3	30
7	High order well-balanced finite volume methods for multi-dimensional systems of hyperbolic balance laws. Computers and Fluids, 2021, 219, 104858.	2.5	30
8	Simple smoothness indicator and multi-level adaptive order WENO scheme for hyperbolic conservation laws. Journal of Computational Physics, 2018, 375, 1059-1090.	3.8	26
9	High-order magnetohydrodynamics for astrophysics with an adaptive mesh refinement discontinuous Galerkin scheme. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4209-4246.	4.4	24
10	Efficient seventh order WENO schemes of adaptive order for hyperbolic conservation laws. Computers and Fluids, 2019, 190, 49-76.	2.5	17
11	A second-order, discretely well-balanced finite volume scheme for euler equations with gravity. Computers and Fluids, 2019, 181, 292-313.	2.5	17
12	A finite volume method for a two-phase multicomponent polymer flooding. Journal of Computational Physics, 2014, 275, 667-695.	3.8	15
13	Globally constraint-preserving FR/DG scheme for Maxwell's equations at all orders. Journal of Computational Physics, 2019, 394, 298-328.	3.8	15
14	A path conservative finite volume method for a shear shallow water model. Journal of Computational Physics, 2020, 413, 109457.	3.8	11
15	Vertex-centroid finite volume scheme on tetrahedral grids for conservation laws. Computers and Mathematics With Applications, 2013, 65, 58-74.	2.7	10
16	Goal-oriented uncertainty propagation using stochastic adjoints. Computers and Fluids, 2012, 66, 10-20.	2.5	9
17	Generalized Riemann problem-based upwind scheme for the vorticity transport equations. Computers and Fluids, 2016, 132, 10-18.	2.5	9
18	Positivity preservation, stencil selection and applications of LSKUM to 3-D inviscid flows. Computers and Fluids, 2009, 38, 1481-1494.	2.5	8

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19	Discontinuous Galerkin method for Navierâ€“Stokes equations using kinetic flux vector splitting. Journal of Computational Physics, 2013, 233, 527-551.	3.8	8
20	An Efficient Numerical Algorithm for the Inversion of an Integral Transform Arising in Ultrasound Imaging. Journal of Mathematical Imaging and Vision, 2015, 53, 78-91.	1.3	8
21	Positivity-preserving high-order discontinuous Galerkin schemes for Ten-Moment Gaussian closure equations. Journal of Computational Physics, 2017, 339, 370-395.	3.8	7
22	An entropy stable finite volume scheme for the two dimensional Navierâ€“Stokes equations on triangular grids. Applied Mathematics and Computation, 2017, 314, 257-286.	2.2	7
23	Positivity-Preserving Finite Difference WENO Scheme for Ten-Moment Equations with Source Term. Journal of Scientific Computing, 2020, 82, 1.	2.3	7
24	Globally divergence-free DG scheme for ideal compressible MHD. Communications in Applied Mathematics and Computational Science, 2021, 16, 59-98.	1.8	7
25	Simulating Turbulence Using the Astrophysical Discontinuous Galerkin Code TENET. Lecture Notes in Computational Science and Engineering, 2016, , 381-402.	0.3	6
26	A discontinuous Galerkin method for a two dimensional reduced resistive MHD model. Computers and Fluids, 2019, 190, 178-191.	2.5	5
27	A Global Divergence Conforming DG Method for Hyperbolic Conservation Laws with Divergence Constraint. Journal of Scientific Computing, 2019, 79, 79-102.	2.3	5
28	Single-Step Arbitrary Lagrangianâ€“Eulerian Discontinuous Galerkin Method for 1-D Euler Equations. Communications on Applied Mathematics and Computation, 2020, 2, 541-579.	1.7	5
29	Finite volume discretization of heat equation and compressible Navierâ€“Stokes equations with weak Dirichlet boundary condition on triangular grids. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2016, 8, 174-193.	1.1	4
30	On limiting for higher order discontinuous Galerkin method for 2D Euler equations. Bulletin of the Brazilian Mathematical Society, 2016, 47, 335-345.	0.8	4
31	A variational approach to estimate incompressible fluid flows. Proceedings of the Indian Academy of Sciences: Mathematical Sciences, 2017, 127, 175-201.	0.1	4
32	Optimal, globally constraint-preserving, DG(TD)2 schemes for computational electrodynamics based on two-derivative Runge-Kutta timestepping and multidimensional generalized Riemann problem solvers â€“ A von Neumann stability analysis. Journal of Computational Physics, 2020, 408, 109238.	3.8	4
33	A variational approach to optical flow estimation of unsteady incompressible flows. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2015, 7, 149-167.	1.1	3
34	Multi-level WENO schemes with an adaptive characteristic-wise reconstruction for system of Euler equations. Computers and Fluids, 2022, 239, 105386.	2.5	3
35	Stabilized discontinuous Galerkin scheme for the magnetic induction equation. Applied Numerical Mathematics, 2019, 137, 116-135.	2.1	1
36	Constraint Preserving Discontinuous Galerkin Method for Ideal Compressible MHD on 2-D Cartesian Grids. Journal of Scientific Computing, 2020, 84, 1.	2.3	1

#	Article	IF	Citations
37	Numerical stabilization of the Boussinesq system using boundary feedback control. Computers and Mathematics With Applications, 2021, 89, 163-183.	2.7	1
38	A Rungeâ€“Kutta Discontinuous Galerkin Scheme for the Ideal Magnetohydrodynamical Model. Springer Proceedings in Mathematics and Statistics, 2018, , 335-344.	0.2	1
39	Lax-Wendroff flux reconstruction method for hyperbolic conservation laws. Journal of Computational Physics, 2022, , 111423.	3.8	1
40	EXAMAG: Towards Exascale Simulations of the Magnetic Universe. Lecture Notes in Computational Science and Engineering, 2020, , 331-350.	0.3	0