Jadav Mandal

List of Publications by Year
in descending order

27 papers	1,070 citations	623734 14 h-index	552781 26 g-index
28 all docs	28 docs citations	28 times ranked	608 citing authors

#	Article	IF	Citations
1	Experimental and CFD estimation of heat transfer in helically coiled heat exchangers. Chemical Engineering Research and Design, 2008, 86, 221-232.	5.6	340
2	Kinetic flux vector splitting for euler equations. Computers and Fluids, 1994, 23, 447-478.	2.5	191
3	CFD analysis of single-phase flows inside helically coiled tubes. Computers and Chemical Engineering, 2010, 34, 430-446.	3.8	189
4	Robust HLL-type Riemann solver capable of resolving contact discontinuity. Computers and Fluids, 2012, 63, 148-164.	2.5	46
5	A cure for numerical shock instability in HLLC Riemann solver using antidiffusion control. Computers and Fluids, 2018, 174, 144-166.	2.5	41
6	A simple cure for numerical shock instability in the HLLC Riemann solver. Journal of Computational Physics, 2019, 378, 477-496.	3.8	39
7	Thermal hydraulic characteristics of air–water two-phase flows in helical pipes. Chemical Engineering Research and Design, 2010, 88, 501-512.	5.6	31
8	High resolution finite volume computations on unstructured grids using solution dependent weighted least squares gradients. Computers and Fluids, 2011, 44, 23-31.	2.5	23
9	Simulation of flow inside differentially heated rotating cavity. International Journal of Numerical Methods for Heat and Fluid Flow, 2013, 23, 23-54.	2.8	23
10	Incompressible flow computations over moving boundary using a novel upwind method. Computers and Fluids, 2011, 46, 348-352.	2.5	19
11	On the link between weighted least-squares and limiters used in higher-order reconstructions for finite volume computations of hyperbolic equations. Applied Numerical Mathematics, 2008, 58, 705-725.	2.1	17
12	Simulation of Moderator Flow and Temperature Inside Calandria of CANDU Reactor Using Artificial Compressibility Method. Heat Transfer Engineering, 2014, 35, 1254-1266.	1.9	17
13	High Resolution Incompressible Flow Computations over Unstructured Mesh using SDWLS Gradients. Journal of the Institution of Engineers (India): Series C, 2019, 100, 83-96.	1.2	16
14	Strategies to cure numerical shock instability in the HLLEM Riemann solver. International Journal for Numerical Methods in Fluids, 2019, 89, 533-569.	1.6	15
15	A genuinely multidimensional convective pressure flux split Riemann solver for Euler equations. Journal of Computational Physics, 2015, 297, 669-688.	3.8	14
16	Computations of laminar and turbulent mixed convection in a driven cavity using pseudo-compressibility approach. Computers and Fluids, 2001, 30, 607-620.	2.5	13
17	High resolution schemes for genuinely two-dimensional HLLE Riemann solver. Progress in Computational Fluid Dynamics, 2014, 14, 205.	0.2	10
18	High‐resolution finite volume computations using a novel weighted least‐squares formulation. International Journal for Numerical Methods in Fluids, 2008, 56, 1425-1431.	1.6	5

#	Article	IF	Citations
19	A novel Roe solver for incompressible two-phase flow problems. Journal of Computational Physics, 2019, 390, 405-424.	3.8	5
20	Three-Dimensional Hypersonic Flow Computation over Reentry Capsule Using Energy Relaxation Method. Journal of Spacecraft and Rockets, 2004, 41, 695-698.	1.9	4
21	Contact preserving Riemann solver for incompressible two-phase flows. Journal of Computational Physics, 2019, 379, 173-191.	3.8	3
22	An improved multigrid method for Euler equations. Computational Mechanics, 1999, 23, 397-403.	4.0	2
23	Computations of Incompressible Flows with Natural Convection Using Pseudocompressibility Approach. Journal of Thermophysics and Heat Transfer, 2000, 14, 606-609.	1.6	2
24	An Upwind Method for Incompressible Flow Computations Using Pseudo-Compressibility Approach. , 2009, , .		2
25	Energy relaxation method for chemical non-equilibrium flow computations. International Journal for Numerical Methods in Fluids, 2007, 54, 1473-1494.	1.6	1
26	An improved HLLC-type solver for incompressible two-phase fluid flows. Computers and Fluids, 2022, 244, 105570.	2.5	1
27	UNSTEADY FLOW COMPUTATIONS OVER MOVING BODY USING DYNAMIC MESHES. International Journal of Computational Methods, 2004, 01, 507-518.	1.3	0