Ashoke De

List of Publications by Year in descending order

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430874 477307 1,061 81 18 29 h-index citations g-index papers 89 89 89 674 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Numerical Investigation of Flow-Acoustics Coupling in a Half-Dump Combustor Using Hybrid CFD-CAA Methodology. Green Energy and Technology, 2022, , 337-359.	0.6	O
2	A multiscale approach for stable relaxation parameter values in lattice Boltzmann simulations of heat and mass transport in porous media. Numerical Heat Transfer, Part B: Fundamentals, 2022, 82, 41-59.	0.9	1
3	Numerical analysis of dilute methanol spray flames in vitiated coflow using extended flamelet generated manifold model. Physics of Fluids, 2022, 34, .	4.0	4
4	A robust sharp interface based immersed boundary framework for moving body problems with applications to laminar incompressible flows. Computers and Mathematics With Applications, 2021, 83, 24-56.	2.7	11
5	Film Cooling Aspects of a Dual Bell Nozzle. Lecture Notes in Mechanical Engineering, 2021, , 99-107.	0.4	O
6	Preface to special issue of selected papers from the 13th International Symposium on Numerical Analysis of Fluid Flow, Heat and Mass Transfer â€" Numerical Fluids 2018. Computers and Mathematics With Applications, 2021, 83, 1-3.	2.7	1
7	Role of corner flow separation in unsteady dynamics of hypersonic flow over a double wedge geometry. Physics of Fluids, 2021, 33, .	4.0	26
8	Effect of vortex and entropy sources in sound generation for compressible cavity flow. Physics of Fluids, 2021, 33, .	4.0	6
9	Generalization of the Stability Condition for the Semi–Implicit Formulation of the Radial Impurity Transport Equation in Tokamak Plasma in Terms of the Magnetic Flux Surface Coordinate. Journal of Fusion Energy, 2021, 40, 1.	1.2	0
10	Suppression of vortex shedding using a slit through the circular cylinder at low Reynolds number. European Journal of Mechanics, B/Fluids, 2021, 89, 349-366.	2.5	20
11	Characteristics of shock tube generated compressible vortex rings at very high shock Mach numbers. Physics of Fluids, 2021, 33, .	4.0	11
12	On the unsteady dynamics of partially shrouded compressible jets. Experiments in Fluids, 2021, 62, 1.	2.4	5
13	Transported PDF Modeling of Jet-in-Hot-Coflow Flames. Green Energy and Technology, 2021, , 439-462.	0.6	O
14	Flow characteristics of elastically mounted slit cylinder at sub-critical Reynolds number. Physics of Fluids, 2021, 33, .	4.0	9
15	Mathematical modeling of flash boiling phenomena in superheated sprays at low degree of superheat using dirichlet hyperboloids. International Journal of Multiphase Flow, 2020, 130, 103366.	3.4	3
16	Investigation of shock wave interactions involving stationary and moving wedges. Physics of Fluids, 2020, 32, .	4.0	13
17	On the fluidic behavior of an over-expanded planar plug nozzle under lateral confinement. Physics of Fluids, 2020, 32, 086106.	4.0	9
18	Investigation of asymmetrically pitching airfoil at high reduced frequency. Physics of Fluids, 2020, 32,	4.0	18

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19	Vortex-induced vibrations of a confined circular cylinder for efficient flow power extraction. Physics of Fluids, 2020, 32, .	4.0	35
20	Numerical Investigation of Coaxial GCH4/LOx Combustion at Supercritical Pressures. Combustion Science and Technology, 2020, , 1-25.	2.3	5
21	Passive control of the onset of vortex shedding in flow past a circular cylinder using slit. Physics of Fluids, 2020, 32, .	4.0	29
22	Investigation of flow characteristics inside a dual bell nozzle with and without film cooling. Aerospace Science and Technology, 2020, 99, 105741.	4.8	15
23	Handling Slender/Thin Geometries with Sharp Edges in Sharp Interface Immersed Boundary Approach. Computational Methods in Engineering & the Sciences, 2020, , 139-165.	0.3	1
24	A novel sharp interface immersed boundary framework for viscous flow simulations at arbitrary Mach number involving complex and moving boundaries. Computers and Fluids, 2020, 206, 104579.	2.5	8
25	FLOW PAST STATIONARY AND OSCILLATING AIRFOIL AT A LOW REYNOLDS NUMBER USING SHARP INTERFACE IMMERSED-BOUNDARY APPROACH. Journal of Flow Visualization and Image Processing, 2020, 27, 47-69.	0.5	3
26	Modal decomposition of turbulent supersonic cavity. Shock Waves, 2019, 29, 135-151.	1.9	13
27	A dynamic two-coefficient wall adapting local eddy viscosity model. AIP Conference Proceedings, 2019,	0.4	0
28	Water faucet problem by mixture two phase flow equations. AIP Conference Proceedings, 2019, , .	0.4	0
29	Lattice Boltzmann simulations of anode supported solid oxide fuel cell. AIP Conference Proceedings, 2019, , .	0.4	3
30	Numerical study of trailing and leading vortex dynamics in a forced jet with coflow. Computers and Fluids, 2019, 181, 314-344.	2.5	9
31	Prediction of separation induced transition on thick airfoil using non-linear URANS based turbulence model. Journal of Mechanical Science and Technology, 2019, 33, 2169-2180.	1.5	8
32	Effect of grid sensitivity on the performance of wall adapting SGS models for LES of swirling and separating–reattaching flows. Computers and Mathematics With Applications, 2019, 78, 2035-2051.	2.7	21
33	Flash Boiling in Sprays: Recent Developments and Modeling. Journal of the Indian Institute of Science, 2019, 99, 93-104.	1.9	9
34	Effect of Passive Flow Control of Bifurcation Phenomenon in Sudden Expansion Channel. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2019, 89, 663-672.	1.2	0
35	Investigation of mixing characteristics in strut injectors using modal decomposition. Physics of Fluids, 2018, 30, .	4.0	39
36	Soot Predictions in Higher Order Hydrocarbon Flames: Assessment of Semi-Empirical Models and Method of Moments. Energy, Environment, and Sustainability, 2018, , 335-361.	1.0	1

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37	Pore-Scale Simulation of Shear Thinning Fluid Flow Using Lattice Boltzmann Method. Transport in Porous Media, 2018, 121, 753-782.	2.6	7
38	Transported Probability Density Function Method for MILD Combustion. Energy, Environment, and Sustainability, 2018, , 397-427.	1.0	0
39	Investigation of NOx in piloted stabilized methane-air diffusion flames using finite-rate and infinitely-fast chemistry based combustion models. Thermal Science and Engineering Progress, 2018, 5, 144-157.	2.7	18
40	Role of jet spacing and strut geometry on the formation of large scale structures and mixing characteristics. Physics of Fluids, $2018, 30, .$	4.0	29
41	Assessment of pressure reconstruction schemes in sharp interface immersed boundary method. AIP Conference Proceedings, 2018, , .	0.4	2
42	Investigation of the Role of Chemical Kinetics in Controlling Stabilization Mechanism of the Turbulent Lifted Jet Flame Using Multi-flamelet Generated Manifold Approach. Green Energy and Technology, 2018, , 293-314.	0.6	1
43	Study of wall adaptive SGS models for LES of subsonic and supersonic flows. AIP Conference Proceedings, 2018, , .	0.4	0
44	Soot Formation in Turbulent Diffusion Flames: Effect of Differential Diffusion., 2017,, 193-216.		1
45	Characterization of Turbulent Supersonic Flow over a Backward-Facing Step. AIAA Journal, 2017, 55, 1511-1529.	2.6	19
46	Investigation of strut-ramp injector in a Scramjet combustor: Effect of strut geometry, fuel and jet diameter on mixing characteristics. Journal of Mechanical Science and Technology, 2017, 31, 1169-1179.	1.5	39
47	Simulation of coupled heat and mass transport with reaction in PEM fuel cell cathode using lattice Boltzmann method. Thermal Science and Engineering Progress, 2017, 4, 85-96.	2.7	16
48	Investigation of flow structures in supersonic flow with mass injection. AIP Conference Proceedings, 2017, , .	0.4	0
49	A Hybrid Flamelet Generated Manifold Model for Modeling Partially Premixed Turbulent Combustion Flames. , 2017, , .		3
50	Passive control of bifurcation phenomenon in sudden expansion flow. AIP Conference Proceedings, 2017, , .	0.4	0
51	Assessment of soot formation models in lifted ethylene/air turbulent diffusion flame. Thermal Science and Engineering Progress, 2017, 3, 49-61.	2.7	11
52	Investigation of the sensitivity of turbulent closures and coupling of hybrid RANS‣ES models for predicting flow fields with separation and reattachment. International Journal for Numerical Methods in Fluids, 2017, 83, 917-939.	1.6	10
53	Numerical simulations of 3D compressible vortex ring. AIP Conference Proceedings, 2017, , .	0.4	1
54	Investigation of flow structures in a turbulent separating flow using hybrid RANS-LES model. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 1430-1450.	2.8	17

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55	Lattice Boltzmann Simulation of Lithium Peroxide Formation in Lithium–Oxygen Battery. Journal of Electrochemical Energy Conversion and Storage, 2016, 13, .	2.1	14
56	Numerical study of flow physics in supersonic base-flow with mass bleed. Aerospace Science and Technology, 2016, 58, 1-17.	4.8	21
57	Stabilization of lifted hydrogen jet diffusion flame in a vitiated co-flow: Effects of jet and coflow velocities, coflow temperature and mixing. International Journal of Hydrogen Energy, 2016, 41, 15026-15042.	7.1	17
58	Numerical study of bifurcating flow through sudden expansions: effect of divergence and geometric asymmetry. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2016, 8, 259-273.	1.1	6
59	Numerical modeling of soot formation in a turbulent C ₂ H ₄ /air diffusion flame. International Journal of Spray and Combustion Dynamics, 2016, 8, 67-85.	1.0	10
60	Assessment of Turbulence-Chemistry Interaction Models in MILD Combustion Regime. Flow, Turbulence and Combustion, 2015, 94, 439-478.	2.6	45
61	Effect of precursors and radiation on soot formation in turbulent diffusion flame. Fuel, 2015, 148, 58-72.	6.4	20
62	Assessment of RANS based models in a supersonic flow. AIP Conference Proceedings, 2015, , .	0.4	3
63	Identification of coherent structures in a supersonic flow past backward facing step. AIP Conference Proceedings, 2015, , .	0.4	3
64	Numerical investigation of flow structures around a cylindrical afterbody under supersonic condition. Aerospace Science and Technology, 2015, 47, 195-209.	4.8	22
65	Investigation of flow field of clap and fling motion using immersed boundary coupled lattice Boltzmann method. Journal of Fluids and Structures, 2015, 57, 247-263.	3.4	16
66	Numerical Investigation of MILD Combustion Using Multi-Environment Eulerian Probability Density Function Modeling. International Journal of Spray and Combustion Dynamics, 2014, 6, 357-386.	1.0	8
67	Large Eddy Simulation of Mild Combustion Using PDF-Based Turbulence–Chemistry Interaction Models. Combustion Science and Technology, 2014, 186, 1138-1165.	2.3	26
68	Modeling of turbulent lifted flames in vitiated co-flow using multi environment Eulerian PDF transport approach. International Journal of Heat and Mass Transfer, 2014, 77, 230-246.	4.8	8
69	Simulation of chemical reactions induced by droplet in a phase separating media using Lattice Boltzmann–kinetic Monte-Carlo framework. Computers and Fluids, 2014, 89, 133-142.	2.5	8
70	Coupling of reaction and hydrodynamics around a reacting block modeled by Lattice Boltzmann Method (LBM). Computers and Fluids, 2013, 71, 91-97.	2.5	17
71	Numerical Investigation of Delft-Jet-in-Hot-Coflow (DJHC) Burner Using Probability Density Function (PDF) Transport Modeling. , 2013, , .		4
72	Investigation of flow structures in hydrogen-enriched premixed combustion. , 2013, , .		0

ASHOKE DE

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73	Parametric study of upstream flame propagation in hydrogen-enriched premixed combustion: Effects of swirl, geometry and premixedness. International Journal of Hydrogen Energy, 2012, 37, 14649-14668.	7.1	40
74	Dynamics of upstream flame propagation in a hydrogen-enriched premixed flame. International Journal of Hydrogen Energy, 2012, 37, 17294-17309.	7.1	30
75	Numerical Simulation of Delft-Jet-in-Hot-Coflow (DJHC) Flames Using the Eddy Dissipation Concept Model for Turbulence–Chemistry Interaction. Flow, Turbulence and Combustion, 2011, 87, 537-567.	2.6	178
76	An Experimental and Computational Study of a Swirl-Stabilized Premixed Flame. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	1.1	12
77	An Experimental and Computational Study of a Swirl-Stabilized Premixed Flame. , 2009, , .		3
78	Large Eddy Simulation of Premixed Combustion With a Thickened-Flame Approach. Journal of Engineering for Gas Turbines and Power, 2009, 131, .	1.1	13
79	Large Eddy Simulation of a Premixed Bunsen Flame Using a Modified Thickened-Flame Model at Two Reynolds Number. Combustion Science and Technology, 2009, 181, 1231-1272.	2.3	24
80	Large Eddy Simulation of Premixed Combustion With a Thickened-Flame Approach. , 2008, , .		2
81	Finite element computation of turbulent flow past a multi-element airfoil. International Journal of Computational Fluid Dynamics, 2006, 20, 563-577.	1.2	1