Santanu De

List of Publications by Year in descending order

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31 papers	342 citations	1039406 9 h-index	839053 18 g-index
31 all docs	31 docs citations	31 times ranked	268 citing authors

#	Article	IF	Citations
1	Coupling the Multiple Mapping Conditioning Mixing Model with Reaction-diffusion Databases in LES of Methane/air Flames. Combustion Science and Technology, 2023, 195, 351-378.	1.2	2
2	Effects of drag and subgrid-scale turbulence modeling on gasâ€“solid hydrodynamics of a pilot-scale circulating fluidized bed. Chemical Engineering Science, 2022, 248, 117093.	1.9	6
3	An experimental investigation of high-ash coal gasification in a pilot-scale bubbling fluidized bed reactor. Energy, 2022, 244, 122868.	4.5	16
4	A fully dynamic mixing timeâ€scale model for the sparse Lagrangian multiple mapping conditioning approach. Combustion and Flame, 2022, 238, 111872.	2.8	4
5	Numerical investigation of cold flow hydrodynamics in an internally circulating dual fluidized bed for coal gasification. Particulate Science and Technology, 2021, 39, 401-414.	1.1	3
6	Large eddy simulation of biomass gasification in a bubbling fluidized bed based on the multiphase particle-in-cell method. Renewable Energy, 2021, 163, 1455-1466.	4.3	21
7	LES of a lifted methanol spray flame series using the sparse Lagrangian MMC approach. Proceedings of the Combustion Institute, 2021, 38, 3399-3407.	2.4	8
8	Investigation of cold flow hydrodynamics in a dual fluidized bed for gasification of high-ash coal. Powder Technology, 2021, 384, 564-574.	2.1	5
9	Investigation of hydrodynamics and segregation characteristics in a dual fluidized bed using the binary mixture of sand and high-ash coal. Advanced Powder Technology, 2021, 32, 2690-2702.	2.0	7
10	Numerical simulations of turbulent lifted jet diffusion flames in a vitiated coflow using the stochastic multiple mapping conditioning approach. Proceedings of the Combustion Institute, 2019, 37, 2199-2206.	2.4	7
11	Numerical investigation of flow and scalar fields of piloted, partially-premixed dimethyl ether/air jet flames using stochastic multiple mapping conditioning approach. Combustion and Flame, 2019, 208, 480-491.	2.8	0
12	Large Eddy Simulation-Based Turbulent Combustion Models for Reactive Sprays: Recent Advances and Future Challenges. Journal of the Indian Institute of Science, 2019, 99, 25-41.	0.9	3
13	Numerical investigation of auto-igniting turbulent lifted CH4/air jet diffusion flames in a vitiated co-flow using a RANS based stochastic multiple mapping conditioning approach. Combustion and Flame, 2019, 203, 362-374.	2.8	4
14	Numerical modeling of turbulent premixed combustion using RANS based stochastic multiple mapping conditioning approach. Proceedings of the Combustion Institute, 2019, 37, 2519-2526.	2.4	6
15	Numerical Modelling of Fluidized Bed Gasification: An Overview. Energy, Environment, and Sustainability, 2018, , 243-280.	0.6	3
16	Dual Fluidized Bed Gasification of Solid Fuels. Energy, Environment, and Sustainability, 2018, , 425-454.	0.6	4
17	Gasifiers: Types, Operational Principles, and Commercial Forms. Energy, Environment, and Sustainability, 2018, , 63-91.	0.6	7
18	Hydrodynamics of Circulating Fluidized Bed Systems. Energy, Environment, and Sustainability, 2018, , 93-114.	0.6	2

#	Article	IF	Citations
19	Mechanics and Modelling of Turbulenceâ€“Combustion Interaction. Energy, Environment, and Sustainability, 2018, , 3-43.	0.6	0
20	Theory and Application of Multiple Mapping Conditioning for Turbulent Reactive Flows. Energy, Environment, and Sustainability, 2018, , 447-474.	0.6	2
21	A Review on Autoignition in Laminar and Turbulent Nonpremixed Flames. , 2017, , 11-37.		2
22	Introduction to Combustion for Power Generation and Transportation. , 2017, , 3-8.		1
23	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.	3.8	17
24	The effect of timescale variation in multiple mapping conditioning mixing of PDF calculations for Sandia Flame series Dâ€“F. Combustion Theory and Modelling, 2016, 20, 894-912.	1.0	18
25	Mixing Modelling Framework Based on Multiple Mapping Conditioning for the Prediction of Turbulent Flame Extinction. Flow, Turbulence and Combustion, 2015, 95, 501-517.	1.4	13
26	Large eddy simulation of dilute reacting sprays: Droplet evaporation and scalar mixing. Combustion and Flame, 2013, 160, 2048-2066.	2.8	53
27	Modeling of nonreacting and reacting turbulent spray jets using a fully stochastic separated flow approach. Combustion and Flame, 2011, 158, 1992-2008.	2.8	34
28	CMC simulations of lifted turbulent jet flame in a vitiated coflow. Proceedings of the Combustion Institute, 2009, 32, 1705-1712.	2.4	58
29	Simulation of laminar flow in a threeâ€dimensional lidâ€driven cavity by lattice Boltzmann method. International Journal of Numerical Methods for Heat and Fluid Flow, 2009, 19, 790-815.	1.6	32
30	Simulations of Evaporating Spray Jet in a Uniform Co-Flowing Turbulent Air Stream. International Journal of Spray and Combustion Dynamics, 2009, 1, 169-198.	0.4	3
31	A SUPGâ€“finite element study of an ADSS. Finite Elements in Analysis and Design, 2006, 42, 1123-1136.	1.7	1