

Hariswaran Sitaraman

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

114
citations

1478505

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1281871

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all docs

15
docs citations

15
times ranked

96
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive mesh based combustion simulations of direct fuel injection effects in a supersonic cavity flame-holder. <i>Combustion and Flame</i> , 2021, 232, 111531.	5.2	31
2	Computational fluid dynamics study of full-scale aerobic bioreactors: Evaluation of gas-liquid mass transfer, oxygen uptake, and dynamic oxygen distribution. <i>Chemical Engineering Research and Design</i> , 2018, 139, 283-295.	5.6	18
3	Coupled CFD and chemical-kinetics simulations of cellulosic-biomass enzymatic hydrolysis: Mathematical-model development and validation. <i>Chemical Engineering Science</i> , 2019, 206, 348-360.	3.8	18
4	Bridging Scales in Bioenergy and Catalysis: A Review of Mesoscale Modeling Applications, Methods, and Future Directions. <i>Energy & Fuels</i> , 2021, 35, 14382-14400.	5.1	12
5	Balancing conflicting requirements for grid and particle decomposition in continuum-Lagrangian solvers. <i>Parallel Computing</i> , 2016, 52, 1-21.	2.1	8
6	Nucleate pool boiling of R-245fa at low saturation temperatures for hydrogen precooling applications. <i>International Journal of Heat and Mass Transfer</i> , 2019, 132, 172-183.	4.8	6
7	An error-controlled adaptive time-stepping method for particle advancement in coupled CFD-DEM simulations. <i>Powder Technology</i> , 2021, 379, 203-216.	4.2	5
8	Optimizing performance of combustion chemistry solvers on Intel's Many Integrated Core (MIC) architectures. , 2017, , .		3
9	Formulation and validation of a computational model for a dilute biomass slurry undergoing rotational mixing. <i>Chemical Engineering Science</i> , 2018, 182, 108-118.	3.8	3
10	Visualizations of direct fuel injection effects in a supersonic cavity flameholder. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	3
11	Measurement of Transport Properties of Woody Biomass Feedstock Particles Before and After Pyrolysis by Numerical Analysis of X-Ray Tomographic Reconstructions. <i>Frontiers in Energy Research</i> , 2022, 10, .	2.3	3
12	Premixed combustion simulations with a self-consistent plasma model for initiation. , 2016, , .		2
13	An adaptive timestepping algorithm for particle time integration in coupled CFD-DEM simulations.. , 2018, , .		1
14	Surface chemistry models for GaAs epitaxial growth and hydride cracking using reacting flow simulations. <i>Journal of Applied Physics</i> , 2021, 130, 115702.	2.5	1
15	Local-Scale Simulations of Nucleate Boiling on Micrometer-Featured Surfaces. , 2017, , .		0