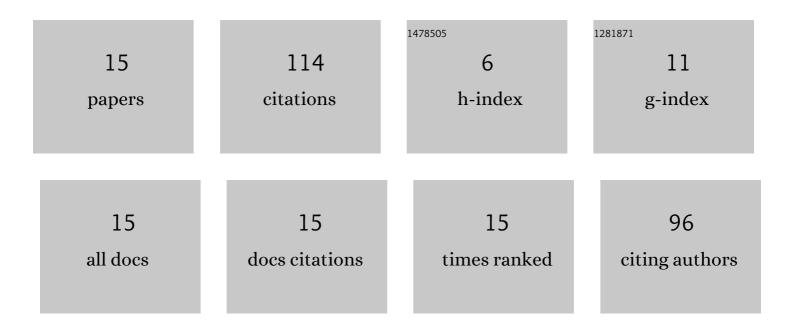
Hariswaran Sitaraman

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/11772288/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Adaptive mesh based combustion simulations of direct fuel injection effects in a supersonic cavity flame-holder. Combustion and Flame, 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. Chemical Engineering Research and Design, 2018, 139, 283-295.	5.6	18
3	Coupled CFD and chemical-kinetics simulations of cellulosic-biomass enzymatic hydrolysis: Mathematical-model development and validation. Chemical Engineering Science, 2019, 206, 348-360.	3.8	18
4	Bridging Scales in Bioenergy and Catalysis: A Review of Mesoscale Modeling Applications, Methods, and Future Directions. Energy & Fuels, 2021, 35, 14382-14400.	5.1	12
5	Balancing conflicting requirements for grid and particle decomposition in continuum-Lagrangian solvers. Parallel Computing, 2016, 52, 1-21.	2.1	8
6	Nucleate pool boiling of R-245fa at low saturation temperatures for hydrogen precooling applications. International Journal of Heat and Mass Transfer, 2019, 132, 172-183.	4.8	6
7	An error-controlled adaptive time-stepping method for particle advancement in coupled CFD-DEM simulations. Powder Technology, 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. Chemical Engineering Science, 2018, 182, 108-118.	3.8	3
10	Visualizations of direct fuel injection effects in a supersonic cavity flameholder. Physical Review Fluids, 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. Frontiers in Energy Research, 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. Journal of Applied Physics, 2021, 130, 115702.	2.5	1
15	Local-Scale Simulations of Nucleate Boiling on Micrometer-Featured Surfaces. , 2017, , .		0