Gautham Krishnamoorthy

List of Publications by Year
in descending order

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32	541	623734	642732
papers	citations	14 h-index	23 g-index

32	32	32	460
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new weighted-sum-of-gray-gases model for CO2â€“H2O gas mixtures. International Communications in Heat and Mass Transfer, 2010, 37, 1182-1186.	5.6	61
2	Computational Modeling of CO/CO2Ratio Inside Single Char Particles during Pulverized Coal Combustion. Energy & Fuels, 2003, 17, 1367-1371.	5.1	45
3	A comparative evaluation of gray and non-gray radiation modeling strategies in oxy-coal combustion simulations. Applied Thermal Engineering, 2013, 54, 422-432.	6.0	45
4	Radiation modelling in oxy-fuel combustion scenarios. International Journal of Computational Fluid Dynamics, 2010, 24, 69-82.	1.2	39
5	Modeling radiative transfer in photobioreactors for algal growth. Computers and Electronics in Agriculture, 2012, 87, 64-73.	7.7	37
6	A new weighted-sum-of-gray-gases model for oxy-combustion scenarios. International Journal of Energy Research, 2013, 37, 1752-1763.	4.5	34
7	PARALLEL COMPUTATIONS OF RADIATIVE HEAT TRANSFER USING THE DISCRETE ORDINATES METHOD. Numerical Heat Transfer, Part B: Fundamentals, 2004, 47, 19-38.	0.9	33
8	Parallelization of the P-1 Radiation Model. Numerical Heat Transfer, Part B: Fundamentals, 2006, 49, 1-17.	0.9	32
9	An assessment of radiation modeling strategies in simulations ofÂlaminar to transitional, oxy-methane, diffusion flames. Applied Thermal Engineering, 2013, 61, 507-518.	6.0	22
10	A computationally efficient P1 radiation model for modern combustion systems utilizing pre-conditioned conjugate gradient methods. Applied Thermal Engineering, 2017, 119, 197-206.	6.0	22
11	A comparison of gray and non-gray modeling approaches to radiative transfer in pool fire simulations. Journal of Hazardous Materials, 2010, 182, 570-580.	12.4	21
12	Assessing the Role of Particles in Radiative Heat Transfer during Oxy-Combustion of Coal and Biomass Blends. Journal of Combustion, 2015, 2015, 1-15.	1.0	21
13	Hydrogen rich syngas production from oxy-steam gasification of a lignite coal â€“ A design and optimization study. Applied Thermal Engineering, 2015, 90, 13-22.	6.0	16
14	Modeling trace element partitioning during coal combustion. Fuel Processing Technology, 2014, 126, 284-297.	7.2	15
15	Improving the effectiveness of ultraviolet germicidal irradiation through reflective wall coatings: Experimental and modeling based assessments. Indoor and Built Environment, 2016, 25, 314-328.	2.8	15
16	A Comparison of Angular Discretization Strategies for Modeling Radiative Transfer in Pool Fire Simulations. Heat Transfer Engineering, 2012, 33, 1040-1051.	1.9	12
17	Assessing the role of turbulence-radiation interactions in hydrogen-enriched oxy-methane flames. International Journal of Hydrogen Energy, 2018, 43, 5722-5736.	7.1	10
18	The effects of wall heat fluxes and tube diameters on laminar heat transfer rates to supercritical CO2. International Communications in Heat and Mass Transfer, 2021, 123, 105197.	5.6	9

#	Article	IF	Citations
19	Parallel Computations of Nongray Radiative Heat Transfer. Numerical Heat Transfer, Part B: Fundamentals, 2005, 48, 191-211.	0.9	7
20	Non-gray modeling of radiative heat transfer in hydrogen combustion scenarios. International Journal of Energy Research, 2012, 36, 789-797.	4.5	7
21	Predicting Radiative Heat Transfer in Oxy-Methane Flame Simulations: An Examination of Its Sensitivities to Chemistry and Radiative Property Models. Journal of Combustion, 2015, 2015, 1-20.	1.0	7
22	Characterizing flame stability and radiative heat transfer in non-swirling oxy-coal flames using different multiphase modeling frameworks. Fuel, 2019, 256, 115948.	6.4	7
23	Computationally Efficient Assessments of the Effects of Radiative Transfer, Turbulence Radiation Interactions, and Finite Rate Chemistry in the Mach 20 Reentry F Flight Vehicle. Journal of Computational Engineering, 2016, 2016, 1-14.	0.8	6
24	Aerodynamic effects on outer ash deposition rates in second generation atmospheric pressure oxy-coal combustion systems. Fuel, 2021, 303, 121217.	6.4	5
25	Impact of Radiative Losses on Flame Acceleration and Deflagration to Detonation Transition of Lean Hydrogen-Air Mixtures in a Macro-Channel with Obstacles. Fluids, 2018, 3, 104.	1.7	4
26	Diffusion of tebuconazole into softwood under ambient conditions and its distribution in freshly treated and aged wood. International Journal of Heat and Mass Transfer, 2016, 102, 1257-1266.	4.8	2
27	Modeling ofn-Hexadecane and Water Sorption in Wood. Forest Products Journal, 2016, 66, 401-412.	0.4	2
28	A Radiative Transfer Modeling Methodology in Gas-Liquid Multiphase Flow Simulations. Journal of Engineering (United States), 2014, 2014, 1-14.	1.0	1
29	Assessing uncertainties in prevailing methodologies for modeling radiative transfer in simulations of oxygen-enriched methane flames. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 4231-4248.	1.6	1
30	Pre-conditioning strategies to accelerate the convergence of iterative methods in multiphase flow simulations. Mathematics and Computers in Simulation, 2019, 165, 200-222.	4.4	1
31	A comprehensive assessment of heat loss mechanisms on the propagation of lean, premixed ethylene-oxygen flames in millimeter-scale tubes. Applied Thermal Engineering, 2020, 176, 115434.	6.0	1
32	On the relative contributions of soot to radiative heat transfer at different oxygen indices in ethylene â€“ O2/CO2 laminar diffusion flames. Fuel, 2021, 285, 119269.	6.4	1