Jian Cai

List of Publications by Year in descending order

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21	257	933447 10	1058476 14
papers	citations	h-index	g-index

21	21	21	146
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improved full-spectrum k-distribution implementation for inhomogeneous media using a narrow-band database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 141, 65-72.	2.3	68
2	Eulerianâ€“Eulerian multi-fluid methods for pulverized coal flames with nongray radiation. Combustion and Flame, 2015, 162, 1550-1565.	5.2	24
3	Experimental study of three-scalar mixing in a turbulent coaxial jet. Journal of Fluid Mechanics, 2011, 685, 495-531.	3.4	22
4	Comparison and refinement of the various full-spectrum k-distribution and spectral line weighted-sum-of-gray-gases models for nonhomogeneous media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 271, 107695.	2.3	21
5	High fidelity radiative heat transfer models for high-pressure laminar hydrogenâ€“air diffusion flames. Combustion Theory and Modelling, 2014, 18, 607-626.	1.9	18
6	Investigation of subgrid-scale mixing of mixture fraction and temperature in turbulent partially premixed flames. Proceedings of the Combustion Institute, 2009, 32, 1517-1525.	3.9	17
7	Comparisons of Radiative Heat Transfer Calculations in a Jet Diffusion Flame Using Spherical Harmonics and k-Distributions. Journal of Heat Transfer, 2014, 136, .	2.1	17
8	Elliptic formulation of the Simplified Spherical Harmonics Method in radiative heat transfer. International Journal of Heat and Mass Transfer, 2014, 76, 459-466.	4.8	15
9	Absorption coefficient regression scheme for splitting radiative heat sources across phases in gasâ€“particulate mixtures. Powder Technology, 2014, 265, 76-82.	4.2	14
10	Conditionally filtered diffusion of mixture fraction and temperature in turbulent partially premixed flames. Proceedings of the Combustion Institute, 2011, 33, 1505-1513.	3.9	10
11	A conditional sampling-based method for noise and resolution corrections for scalar dissipation rate measurements. Physics of Fluids, 2009, 21, .	4.0	8
12	A comparison of specularly reflective boundary conditions and rotationally invariant formulations for Discrete Ordinate Methods in axisymmetric geometries. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 182, 75-86.	2.3	8
13	Noise Correction and Length Scale Estimation for Scalar Dissipation Rate Measurements in Turbulent Partially Premixed Flames. Flow, Turbulence and Combustion, 2010, 85, 309-332.	2.6	7
14	Spectral Photon Monte Carlo With Energy Splitting Across Phases for Gasâ€“Particle Mixtures. Journal of Heat Transfer, 2015, 137, .	2.1	5
15	Radiation Modeling in Fluidized-Bed Coal Combustion. , 2012, , .		2
16	Photon Monte Carlo Model for High-Pressure Reacting Laminar Flows. , 2012, , .		1
17	Radiative Heat Transfer in High-Pressure Laminar Hydrogen-Air Diffusion Flames Using Spherical Harmonics and K-Distributions. , 2012, , .		0
18	Absorption coefficient regression scheme for splitting radiative heat sources across phases in gas-particulate mixtures. Journal of Physics: Conference Series, 2012, 369, 012026.	0.4	0

#	Article	IF	Citations
19	Comparisons of Radiative Heat Transfer Calculations Using Spherical Harmonics and K-Distributions. , 2013, , .		0
20	Specular reflective boundary conditions for Discrete Ordinate Methods in Periodic or Symmetric Geometries. Journal of Physics: Conference Series, 2016, 676, 012002.	0.4	0
21	G061061 Nongray radiation simulation of a pulverized coal combustion field by the ^-distribution method. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _G061061-1-_G061061-5.	0.0	0