

Jian Cai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6309315/publications.pdf>

Version: 2024-02-01

21
papers

257
citations

933447

10
h-index

1058476

14
g-index

21
all docs

21
docs citations

21
times ranked

146
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | Specular reflective boundary conditions for Discrete Ordinate Methods in Periodic or Symmetric Geometries. Journal of Physics: Conference Series, 2016, 676, 012002. | 0.4 | 0 |
| 3 | 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 |
| 4 | Spectral Photon Monte Carlo With Energy Splitting Across Phases for Gas-Particle Mixtures. Journal of Heat Transfer, 2015, 137, . | 2.1 | 5 |
| 5 | Eulerian-Eulerian multi-fluid methods for pulverized coal flames with nongray radiation. Combustion and Flame, 2015, 162, 1550-1565. | 5.2 | 24 |
| 6 | 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 |
| 7 | High fidelity radiative heat transfer models for high-pressure laminar hydrogen-air diffusion flames. Combustion Theory and Modelling, 2014, 18, 607-626. | 1.9 | 18 |
| 8 | 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 |
| 9 | Absorption coefficient regression scheme for splitting radiative heat sources across phases in gas-particulate mixtures. Powder Technology, 2014, 265, 76-82. | 4.2 | 14 |
| 10 | 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 |
| 11 | Comparisons of Radiative Heat Transfer Calculations Using Spherical Harmonics and K-Distributions. , 2013, , . | | 0 |
| 12 | G061061 Nongray radiation simulation of a pulverized coal combustion field by the κ -distribution method. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _G061061-1-_G061061-5. | 0.0 | 0 |
| 13 | Radiation Modeling in Fluidized-Bed Coal Combustion. , 2012, , . | | 2 |
| 14 | Photon Monte Carlo Model for High-Pressure Reacting Laminar Flows. , 2012, , . | | 1 |
| 15 | Radiative Heat Transfer in High-Pressure Laminar Hydrogen-Air Diffusion Flames Using Spherical Harmonics and K-Distributions. , 2012, , . | | 0 |
| 16 | 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 |
| 17 | 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 |
| 18 | Experimental study of three-scalar mixing in a turbulent coaxial jet. Journal of Fluid Mechanics, 2011, 685, 495-531. | 3.4 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Noise Correction and Length Scale Estimation for Scalar Dissipation Rate Measurements in Turbulent Partially Premixed Flames. <i>Flow, Turbulence and Combustion</i> , 2010, 85, 309-332. | 2.6 | 7 |
| 20 | A conditional sampling-based method for noise and resolution corrections for scalar dissipation rate measurements. <i>Physics of Fluids</i> , 2009, 21, . | 4.0 | 8 |
| 21 | Investigation of subgrid-scale mixing of mixture fraction and temperature in turbulent partially premixed flames. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 1517-1525. | 3.9 | 17 |