

Matthew Jones

List of Publications by Year in descending order

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69
papers

417
citations

840776

11
h-index

888059

17
g-index

69
all docs

69
docs citations

69
times ranked

252
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Defect measurement limits using flash thermography with application to additive manufacturing. NDT and E International, 2022, 128, 102615. | 3.7 | 6 |
| 2 | Effects of Optical Configuration on the Accuracy and Response of Low-Cost Optical Particle Counters. International Journal of Thermophysics, 2022, 43, 1. | 2.1 | 1 |
| 3 | Spectral Absorption Coefficient of Additive Manufacturing Materials. Journal of Thermal Science and Engineering Applications, 2021, 13, . | 1.5 | 2 |
| 4 | Influence of variability in testing parameters on cookstove performance metrics based on the water boiling test. Energy for Sustainable Development, 2020, 58, 112-118. | 4.5 | 6 |
| 5 | Experimental demonstration of heat loss and turn-down ratio for a multi-panel, actively deployed radiator. Applied Thermal Engineering, 2020, 178, 115658. | 6.0 | 7 |
| 6 | Heat transfer, efficiency and turn-down ratio of a dynamic radiative heat exchanger. International Journal of Heat and Mass Transfer, 2019, 143, 118441. | 4.8 | 5 |
| 7 | Control of Net Radiative Heat Transfer With a Variable-Emissivity Accordion Tessellation. Journal of Heat Transfer, 2019, 141, . | 2.1 | 14 |
| 8 | Total hemispherical apparent radiative properties of the infinite V-groove with specular reflection. International Journal of Heat and Mass Transfer, 2018, 124, 168-176. | 4.8 | 19 |
| 9 | Total Hemispherical Apparent Radiative Properties of the Infinite V-Groove with Diffuse Reflection. Journal of Thermophysics and Heat Transfer, 2018, 32, 1109-1112. | 1.6 | 10 |
| 10 | ADAPTIVE NET RADIATIVE HEAT TRANSFER AND THERMAL MANAGEMENT WITH ORIGAMI-STRUCTURED SURFACES. , 2018, , . | | 6 |
| 11 | An inexpensive high-temperature optical fiber thermometer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 187, 358-363. | 2.3 | 5 |
| 12 | Uncertainty analysis and design guidelines of biomass cookstove thermal efficiency studies. Energy for Sustainable Development, 2016, 34, 54-61. | 4.5 | 5 |
| 13 | Analysis and Comparison of Inlet Distortion Flow Physics at Design and Near Stall Operating Condition Using Proper Orthogonal Decomposition. , 2016, , . | | 0 |
| 14 | Estimation of transient thermal efficiency of a biomass cookstove. Energy for Sustainable Development, 2016, 33, 122-128. | 4.5 | 4 |
| 15 | Insights on thermal efficiency analysis for the water boiling test. , 2016, , . | | 0 |
| 16 | Dynamic Control of Radiative Surface Properties With Origami-Inspired Design. Journal of Heat Transfer, 2016, 138, . | 2.1 | 21 |
| 17 | Reduced-Order Modeling of Conjugate Heat Transfer Processes. Journal of Heat Transfer, 2016, 138, . | 2.1 | 6 |
| 18 | Infrared Visualization of the Cavity Effect Using Origami-Inspired Surfaces. Journal of Heat Transfer, 2016, 138, . | 2.1 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Visualization and Post-Processing of Large Scale Engineering Applications using In-Situ Data Extracts and Proper Orthogonal Decomposition. , 2015, , . | | 0 |
| 20 | Analysis and Comparison of Clean vs Inlet Distortion Flow Physics at Design Operating Condition Using Proper Orthogonal Decomposition. , 2015, , . | | 1 |
| 21 | Solving nonlinear heat transfer problems using variation of parameters. International Journal of Thermal Sciences, 2015, 93, 29-35. | 4.9 | 20 |
| 22 | Experimental measurements of the spectral absorption coefficient of pure fused silica optical fibers. Applied Optics, 2015, 54, 1374. | 1.8 | 5 |
| 23 | EPIC - An Extract Plug-In Components Toolkit for In-Situ Data Extracts Architecture. , 2015, , . | | 9 |
| 24 | Utilization of infrared photography to assess heat losses in a Peruvian cookstove. , 2014, , . | | 0 |
| 25 | Impact of co-firing a traditional Peruvian biomass cookstove with biogas on emissions and combustion efficiency. , 2014, , . | | 0 |
| 26 | Analysis of the conductionâ€“radiation problem in absorbing, emitting, non-gray planar media using an exact method. International Journal of Heat and Mass Transfer, 2014, 73, 804-809. | 4.8 | 15 |
| 27 | Dynamic Control of Radiative Surface Properties With Origami-Inspired Design. , 2014, , . | | 1 |
| 28 | Analysis and Compression of Time-Accurate Turbomachinery Simulations Using Proper Orthogonal Decomposition. , 2013, , . | | 5 |
| 29 | Numerical Simulation of Convection in Triangular Cavities to Predict Solar Still Performance. Journal of Thermophysics and Heat Transfer, 2013, 27, 482-488. | 1.6 | 1 |
| 30 | A Distributed Source, Finite Absorption Model of a Pulsed Laser Diffusivity Measurement System. , 2013, , . | | 0 |
| 31 | Reduced Order Modeling and Compression of Data Produced by Simulations of Transient and Periodic Heat Transfer Processes. , 2013, , . | | 1 |
| 32 | Second Law Analysis of Direct Energy Conversion Devices. , 2012, , . | | 0 |
| 33 | In Situ Characterization of Ash Thermal Conductivity for Three Coal Types Formed Under Oxidizing and Reducing Conditions in a Laboratory Furnace. Journal of Thermal Science and Engineering Applications, 2012, 4, . | 1.5 | 2 |
| 34 | An experimental method for making spectral emittance and surface temperature measurements of opaque surfaces. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1191-1196. | 2.3 | 10 |
| 35 | In situ measurements of the spectral emittance of coal ash deposits. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1978-1986. | 2.3 | 10 |
| 36 | In Situ Characterization of Coal Ash Thermal Conductivity Under Oxidizing and Reducing Conditions. , 2011, , . | | 0 |

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|----|--|-----|-----------|
| 37 | A Method of Measuring the Temperature Profile of a Thermal Barrier Coating Using Inverse Radiative Heat Transfer Methods. , 2011, , . | | 1 |
| 38 | Greenâ€™s Function Approach to Nonlinear Conduction and Surface Radiation Problems. Journal of Heat Transfer, 2010, 132, . | 2.1 | 3 |
| 39 | Greenâ€™s Function Approach to Nonlinear Conduction and Surface Radiation Problems. , 2009, , . | | 0 |
| 40 | An Experimental Method for Making In Situ Spectral Emittance Measurements of Coal Ash Deposits. , 2009, , . | | 0 |
| 41 | Reduced-order modeling of time-dependent reflectance profiles from purely scattering media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 201-209. | 2.3 | 7 |
| 42 | Reduced Order Modeling of Light Scattering by a Cloud of Particles. , 2008, , . | | 0 |
| 43 | Nonlinear Thermal Model of Circular Foil Heat Flux Gauges. Journal of Thermophysics and Heat Transfer, 2007, 21, 468-474. | 1.6 | 6 |
| 44 | A Method of Measuring the Properties of Ash Deposits in a Coal Fired Reactor. , 2007, , . | | 1 |
| 45 | Investigation of Lightpipe Volumetric Radiation Effects in RTP Thermometry. Journal of Heat Transfer, 2006, 128, 132-141. | 2.1 | 9 |
| 46 | Sensitivity Analysis of an Inverse Method for Characterizing Industrial Foams. , 2005, , 237. | | 0 |
| 47 | Identification of appropriate source models for accurate diffusion modeling of radiative transfer in a non-absorbing foam layer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 93, 125-137. | 2.3 | 3 |
| 48 | Investigation of Lightpipe Volumetric Radiation Effects in RTP Thermometry. , 2005, , 199. | | 0 |
| 49 | Benchmark Solution for the Prediction of Temperature Distributions During Radiofrequency Ablation of Cardiac Tissue. Journal of Biomechanical Engineering, 2004, 126, 519-522. | 1.3 | 2 |
| 50 | Inversion of spectral emission measurements to reconstruct the temperature profile along a blackbody optical fiber thermometer. Inverse Problems in Science and Engineering, 2003, 11, 495-513. | 0.5 | 10 |
| 51 | Temperature Measurements Using a High-Temperature Blackbody Optical Fiber Thermometer. Journal of Heat Transfer, 2003, 125, 471-477. | 2.1 | 11 |
| 52 | Diffusion Modeling of the Radiative Transfer in a Non-Absorbing Foam Layer. , 2003, , . | | 0 |
| 53 | Analytical Solution for the Prediction of Temperature Distributions During Radio-Frequency Ablation of Cardiac Tissue. , 2003, , . | | 0 |
| 54 | Investigation of Various Source Models in the Diffusion Approximation. , 2003, , . | | 0 |

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| 55 | Use of Blackbody Optical Fiber Thermometers in High-Temperature Environments. Journal of Thermophysics and Heat Transfer, 2002, 16, 306-312. | 1.6 | 11 |
| 56 | Characterization of Industrial Foams. , 2002, , . | | 2 |
| 57 | A Hybrid-Inverse Method for Predicting the Temperature Profile Along a Blackbody Optical Fiber Thermometer. , 2002, , . | | 1 |
| 58 | Inverse Analysis of Radiative Heat Transfer Systems. Journal of Heat Transfer, 1999, 121, 481-484. | 2.1 | 14 |
| 59 | Determination of the Asymmetry Parameter and Scattering Coefficient of Turbid Media from Spatially Resolved Reflectance Measurements. Optical Review, 1998, 5, 72-76. | 2.0 | 5 |
| 60 | Application of the zooming method in near-infrared imaging. Physics in Medicine and Biology, 1997, 42, 1993-2009. | 3.0 | 6 |
| 61 | Simulation of Optical Computed Tomography by an Inversion Method.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1996, 62, 842-846. | 0.2 | 2 |
| 62 | Application of a genetic algorithm to the optical characterization of propellant smoke. Journal of Thermophysics and Heat Transfer, 1996, 10, 372-377. | 1.6 | 11 |
| 63 | Thermal Tomographic Detection of Inhomogeneities. Journal of Heat Transfer, 1995, 117, 969-975. | 2.1 | 24 |
| 64 | Design and Test of a Polar Nephelometer. Aerosol Science and Technology, 1995, 23, 341-356. | 3.1 | 8 |
| 65 | Inversion of light-scattering measurements for particle size and optical constants: theoretical study. Applied Optics, 1994, 33, 4025. | 2.1 | 39 |
| 66 | Inversion of light-scattering measurements for particle size and optical constants: experimental study. Applied Optics, 1994, 33, 4035. | 2.1 | 20 |
| 67 | Radiant emission from the aluminum-water reaction. Journal of Quantitative Spectroscopy and Radiative Transfer, 1991, 46, 109-118. | 2.3 | 18 |
| 68 | Use of optical fiber thermometers in high temperature environments. , 0, , . | | 0 |
| 69 | Investigation of volumetric radiation effects in lightpipe thermometry. , 0, , . | | 0 |