

# 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	Inversion of light-scattering measurements for particle size and optical constants: theoretical study. Applied Optics, 1994, 33, 4025.	2.1	39
2	Thermal Tomographic Detection of Inhomogeneities. Journal of Heat Transfer, 1995, 117, 969-975.	2.1	24
3	Dynamic Control of Radiative Surface Properties With Origami-Inspired Design. Journal of Heat Transfer, 2016, 138, .	2.1	21
4	Inversion of light-scattering measurements for particle size and optical constants: experimental study. Applied Optics, 1994, 33, 4035.	2.1	20
5	Solving nonlinear heat transfer problems using variation of parameters. International Journal of Thermal Sciences, 2015, 93, 29-35.	4.9	20
6	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
7	Radiant emission from the aluminum-water reaction. Journal of Quantitative Spectroscopy and Radiative Transfer, 1991, 46, 109-118.	2.3	18
8	Analysis of the conduction-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
9	Inverse Analysis of Radiative Heat Transfer Systems. Journal of Heat Transfer, 1999, 121, 481-484.	2.1	14
10	Control of Net Radiative Heat Transfer With a Variable-Emissivity Accordion Tessellation. Journal of Heat Transfer, 2019, 141, .	2.1	14
11	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
12	Use of Blackbody Optical Fiber Thermometers in High-Temperature Environments. Journal of Thermophysics and Heat Transfer, 2002, 16, 306-312.	1.6	11
13	Temperature Measurements Using a High-Temperature Blackbody Optical Fiber Thermometer. Journal of Heat Transfer, 2003, 125, 471-477.	2.1	11
14	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
15	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
16	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
17	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
18	Investigation of Lightpipe Volumetric Radiation Effects in RTP Thermometry. Journal of Heat Transfer, 2006, 128, 132-141.	2.1	9

#	ARTICLE	IF	CITATIONS
19	EPIC - An Extract Plug-In Components Toolkit for In-Situ Data Extracts Architecture. , 2015, , .		9
20	Design and Test of a Polar Nephelometer. Aerosol Science and Technology, 1995, 23, 341-356.	3.1	8
21	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
22	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
23	Application of the zooming method in near-infrared imaging. Physics in Medicine and Biology, 1997, 42, 1993-2009.	3.0	6
24	Nonlinear Thermal Model of Circular Foil Heat Flux Gauges. Journal of Thermophysics and Heat Transfer, 2007, 21, 468-474.	1.6	6
25	Reduced-Order Modeling of Conjugate Heat Transfer Processes. Journal of Heat Transfer, 2016, 138, .	2.1	6
26	Infrared Visualization of the Cavity Effect Using Origami-Inspired Surfaces. Journal of Heat Transfer, 2016, 138, .	2.1	6
27	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
28	ADAPTIVE NET RADIATIVE HEAT TRANSFER AND THERMAL MANAGEMENT WITH ORIGAMI-STRUCTURED SURFACES. , 2018, , .		6
29	Defect measurement limits using flash thermography with application to additive manufacturing. NDT and E International, 2022, 128, 102615.	3.7	6
30	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
31	Analysis and Compression of Time-Accurate Turbomachinery Simulations Using Proper Orthogonal Decomposition. , 2013, , .		5
32	Experimental measurements of the spectral absorption coefficient of pure fused silica optical fibers. Applied Optics, 2015, 54, 1374.	1.8	5
33	Uncertainty analysis and design guidelines of biomass cookstove thermal efficiency studies. Energy for Sustainable Development, 2016, 34, 54-61.	4.5	5
34	An inexpensive high-temperature optical fiber thermometer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 187, 358-363.	2.3	5
35	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
36	Estimation of transient thermal efficiency of a biomass cookstove. Energy for Sustainable Development, 2016, 33, 122-128.	4.5	4

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37	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
38	Greenâ€™s Function Approach to Nonlinear Conduction and Surface Radiation Problems. Journal of Heat Transfer, 2010, 132, .	2.1	3
39	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
40	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
41	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
42	Spectral Absorption Coefficient of Additive Manufacturing Materials. Journal of Thermal Science and Engineering Applications, 2021, 13, .	1.5	2
43	Characterization of Industrial Foams. , 2002, , .		2
44	A Method of Measuring the Properties of Ash Deposits in a Coal Fired Reactor. , 2007, , .		1
45	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
46	Dynamic Control of Radiative Surface Properties With Origami-Inspired Design. , 2014, , .		1
47	Analysis and Comparison of Clean vs Inlet Distortion Flow Physics at Design Operating Condition Using Proper Orthogonal Decomposition. , 2015, , .		1
48	Reduced Order Modeling and Compression of Data Produced by Simulations of Transient and Periodic Heat Transfer Processes. , 2013, , .		1
49	A Hybrid-Inverse Method for Predicting the Temperature Profile Along a Blackbody Optical Fiber Thermometer. , 2002, , .		1
50	A Method of Measuring the Temperature Profile of a Thermal Barrier Coating Using Inverse Radiative Heat Transfer Methods. , 2011, , .		1
51	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
52	Use of optical fiber thermometers in high temperature environments. , 0, , .		0
53	Investigation of volumetric radiation effects in lightpipe thermometry. , 0, , .		0
54	Sensitivity Analysis of an Inverse Method for Characterizing Industrial Foams. , 2005, , 237.		0

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55	Investigation of Lightpipe Volumetric Radiation Effects in RTP Thermometry. , 2005, , 199.		0
56	Greenâ€™s Function Approach to Nonlinear Conduction and Surface Radiation Problems. , 2009, , .		0
57	In Situ Characterization of Coal Ash Thermal Conductivity Under Oxidizing and Reducing Conditions. , 2011, , .		0
58	Second Law Analysis of Direct Energy Conversion Devices. , 2012, , .		0
59	A Distributed Source, Finite Absorption Model of a Pulsed Laser Diffusivity Measurement System. , 2013, , .		0
60	Utilization of infrared photography to assess heat losses in a Peruvian cookstove. , 2014, , .		0
61	Impact of co-firing a traditional Peruvian biomass cookstove with biogas on emissions and combustion efficiency. , 2014, , .		0
62	Visualization and Post-Processing of Large Scale Engineering Applications using In-Situ Data Extracts and Proper Orthogonal Decomposition. , 2015, , .		0
63	Analysis and Comparison of Inlet Distortion Flow Physics at Design and Near Stall Operating Condition Using Proper Orthogonal Decomposition. , 2016, , .		0
64	Insights on thermal efficiency analysis for the water boiling test. , 2016, , .		0
65	Diffusion Modeling of the Radiative Transfer in a Non-Absorbing Foam Layer. , 2003, , .		0
66	Analytical Solution for the Prediction of Temperature Distributions During Radio-Frequency Ablation of Cardiac Tissue. , 2003, , .		0
67	Investigation of Various Source Models in the Diffusion Approximation. , 2003, , .		0
68	Reduced Order Modeling of Light Scattering by a Cloud of Particles. , 2008, , .		0
69	An Experimental Method for Making In Situ Spectral Emittance Measurements of Coal Ash Deposits. , 2009, , .		0