

Hakan Erturk

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

755
citations

687220

13
h-index

580701

25
g-index

56
all docs

56
docs citations

56
times ranked

689
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of single and two-phase models for nanofluid convection at the entrance of a uniformly heated tube. <i>International Journal of Thermal Sciences</i> , 2014, 80, 83-92.	2.6	147
2	Experimental investigation of heat transfer enhancement and viscosity change of hBN nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2016, 77, 272-283.	1.5	62
3	Comparison of three regularized solution techniques in a three-dimensional inverse radiation problem. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2002, 73, 307-316.	1.1	53
4	The Application of an Inverse Formulation in the Design of Boundary Conditions for Transient Radiating Enclosures. <i>Journal of Heat Transfer</i> , 2002, 124, 1095-1102.	1.2	45
5	Experimental characterization of laminar forced convection of hBN-water nanofluid in circular pipe. <i>International Journal of Heat and Mass Transfer</i> , 2017, 111, 500-507.	2.5	34
6	Rheological and thermal characterization of graphene-water nanofluids: Hysteresis phenomenon. <i>International Journal of Heat and Mass Transfer</i> , 2020, 149, 119113.	2.5	33
7	A novel approach to describe chemical environments in high-dimensional neural network potentials. <i>Journal of Chemical Physics</i> , 2019, 150, 154102.	1.2	31
8	Thermal Performance and Key Challenges for Future CPU Cooling Technologies. , 2005, , 353.		29
9	Convective heat transfer and pressure drop characteristics of graphene-water nanofluids in transitional flow. <i>International Communications in Heat and Mass Transfer</i> , 2021, 121, 105092.	2.9	26
10	The Use of Inverse Methods for the Design and Control of Radiant Sources. <i>JSME International Journal Series B</i> , 2003, 46, 470-478.	0.3	24
11	Continuous and optimally complete description of chemical environments using Spherical Bessel descriptors. <i>AIP Advances</i> , 2020, 10, .	0.6	24
12	Optimization of spectrally selective Si/SiO ₂ based filters for thermophotovoltaic devices. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 197, 123-131.	1.1	19
13	Plasmonic responses of metallic/dielectric core-shell nanoparticles on a dielectric substrate. <i>Materials Research Express</i> , 2019, 6, 065006.	0.8	16
14	Thermal Devices Integrated With Thermoelectric Modules With Applications to CPU Cooling. , 2005, , 2153.		15
15	Enhancing local absorption within a gold nano-sphere on a dielectric surface under an AFM probe. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 178, 124-133.	1.1	15
16	Evaluation of image reconstruction algorithms for non-destructive characterization of thermal interfaces. <i>International Journal of Thermal Sciences</i> , 2011, 50, 906-917.	2.6	12
17	Design of thermo-chromic glazing windows considering energy consumption and visual comfort for cellular offices. <i>Solar Energy</i> , 2022, 241, 637-649.	2.9	12
18	Boundary Condition Design to Heat a Moving Object at Uniform Transient Temperature Using Inverse Formulation. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2004, 126, 619-626.	1.3	11

#	ARTICLE	IF	CITATIONS
19	Improving crop production in solar illuminated vertical farms using fluorescence coatings. Biosystems Engineering, 2020, 193, 25-36.	1.9	11
20	Validation of inverse boundary condition design in a thermometry test bed. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 317-326.	1.1	10
21	Single-phase models for improved estimation of friction factor for laminar nanofluid flow in pipes. International Journal of Heat and Mass Transfer, 2016, 95, 416-425.	2.5	10
22	Effect of the probe location on the absorption by an array of gold nano-particles on a dielectric surface. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 197, 106-113.	1.1	10
23	A new interlayer potential for hexagonal boron nitride. Journal of Physics Condensed Matter, 2016, 28, 385401.	0.7	9
24	Inverse characterization of nanoparticle clusters using unpolarized optical scattering without ex-situ measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 198, 117-129.	1.1	9
25	Thermal performance of thermoelectric cooler (tec) integrated heat sink and optimizing structure for low acoustic noise / power consumption. , 2006, , .		7
26	Optical characterization limits of nanoparticle aggregates at different wavelengths using approximate Bayesian computation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 213, 113-118.	1.1	7
27	Approximate Bayesian computation techniques for optical characterization of nanoparticle clusters. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 88.	0.8	7
28	Improving photosynthetic efficiency using greenhouse coatings with scattering and fluorescent pigments. Materials Research Express, 2019, 6, 085551.	0.8	7
29	Gaussian process and design of experiments for surrogate modeling of optical properties of fractal aggregates. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 239, 106643.	1.1	6
30	Plasmon coupling between complex gold nanostructures and a dielectric substrate. Applied Optics, 2018, 57, 8954.	0.9	6
31	ACCURACY OF MONTE CARLO METHOD RE-EXAMINED ON A BOX-SHAPED FURNACE PROBLEM. , 1997, , .		6
32	Efficient Signal Transport Model for Remote Thermometry in Full-Scale Thermal Processing Systems. IEEE Transactions on Semiconductor Manufacturing, 2010, 23, 132-140.	1.4	5
33	Inverse Design of Spectrally Selective Thickness Sensitive Pigmented Coatings for Solar Thermal Applications. Journal of Solar Energy Engineering, Transactions of the ASME, 2018, 140, .	1.1	5
34	Monte Carlo method solution of the broadband fluorescent radiative transfer equation considering fluorescent cascade. Applied Optics, 2021, 60, 1068.	0.9	5
35	Greenâ€Kubo assessments of thermal transport in nanocolloids based on interfacial effects. Materials Today Communications, 2019, 20, 100533.	0.9	4
36	Absorption and plasmon resonance of Bi-metallic core-shell nanoparticles on a dielectric substrate near an external tip. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 241, 106684.	1.1	4

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37	Prediction of Thermal Conductivity and Shear Viscosity of Water-Cu Nanofluids Using Equilibrium Molecular Dynamics. , 2013, , .		3
38	Modeling of a Radiative RTP-Type Furnace Through an Inverse Design: Mathematical Model and Experimental Results. , 2002, , 237.		2
39	Design of a Rapid Thermal Processing Chamber Using an Inverse Formulation. , 2002, , .		2
40	Nanolayering around and thermal resistivity of the water-hexagonal boron nitride interface. Journal of Chemical Physics, 2017, 147, 044709.	1.2	2
41	Thermal characterization assessment of rigid and flexible water models in a nanogap using molecular dynamics. Chemical Physics Letters, 2017, 687, 270-275.	1.2	2
42	Monte Carlo Methods for Radiative Transfer. , 2018, , 1201-1242.		2
43	Monte Carlo Methods for Radiative Transfer. , 2017, , 1-43.		2
44	Characterization of Electronic Packages by Thermal Diffusion Tomography. , 2009, , .		1
45	Assessment of Single and Two-Phase Models for Nanofluid Flow at the Entrance Region of a Uniformly Heated Tube. , 2012, , .		1
46	Synthesis and Experimental Investigation of Rheological Behavior of EG and Water Based hBN Nanofluids. , 2013, , .		1
47	COMPARISON OF THREE REGULARIZED SOLUTION TECHNIQUES IN A THREE-DIMENSIONAL INVERSE RADIATION PROBLEM. , 2001, , .		1
48	Reverse Monte Carlo Modeling of Signal Transport in Light-Pipe Radiation Thermometers. , 2008, , .		0
49	Investigation of Single Phase Models for Predicting Pressure Drop in Nanofluid Flow in Circular Pipes. , 2013, , .		0
50	Thermal Diffusion Tomography for Quantitative Non-Destructive Characterization of Electronic Packages. , 2015, , .		0
51	Characterization of Nanoparticle Aggregates Using Bayesian Inference via Light Scattering Experiments. , 2016, , .		0
52	Enhancement of Central Processing Unit Liquid Cooling Performance Using Hexagonal Boron Nitride Nanofluids. Journal of Thermal Science and Engineering Applications, 2019, 11, .	0.8	0
53	A novel method for hemodynamic analysis of penile erection. International Journal of Impotence Research, 2020, , .	1.0	0
54	Complete Modeling of a Light-Pipe Radiation Thermometer in a Rapid Thermal Processing System. , 2008, , .		0

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55	Non-Destructive Characterization of Multi Layer Objects by Thermal Tomography. , 2009, , .		0
56	TECHNIQUE FOR MEASUREMENT OF NEAR-FIELD RADIATION HEAT TRANSFER BETWEEN PARALLEL PLANES WITH NANO-SCALE SPACING. , 2010, , .		0