

Hakan Erturk

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45
papers

521
citations

11
h-index

22
g-index

56
ext. papers

629
ext. citations

2.8
avg, IF

4.44
L-index

#	Paper	IF	Citations
45	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	4.1	118
44	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	2.1	48
43	Experimental investigation of heat transfer enhancement and viscosity change of hBN nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2016 , 77, 272-283	3	48
42	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	1.8	39
41	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	4.9	21
40	The Use of Inverse Methods for the Design and Control of Radiant Sources. <i>JSME International Journal Series B</i> , 2003 , 46, 470-478		19
39	A novel approach to describe chemical environments in high-dimensional neural network potentials. <i>Journal of Chemical Physics</i> , 2019 , 150, 154102	3.9	17
38	Thermal Performance and Key Challenges for Future CPU Cooling Technologies 2005 , 353		17
37	Rheological and thermal characterization of graphene-water nanofluids: Hysteresis phenomenon. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 149, 119113	4.9	16
36	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	2.1	14
35	Plasmonic responses of metallic/dielectric core-shell nanoparticles on a dielectric substrate. <i>Materials Research Express</i> , 2019 , 6, 065006	1.7	12
34	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	2.1	11
33	Evaluation of image reconstruction algorithms for non-destructive characterization of thermal interfaces. <i>International Journal of Thermal Sciences</i> , 2011 , 50, 906-917	4.1	10
32	Thermal Devices Integrated With Thermoelectric Modules With Applications to CPU Cooling 2005 , 2153		10
31	Continuous and optimally complete description of chemical environments using Spherical Bessel descriptors. <i>AIP Advances</i> , 2020 , 10, 015021	1.5	9
30	Validation of inverse boundary condition design in a thermometry test bed. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008 , 109, 317-326	2.1	9
29	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	3.3	9

28	Effect of the probe location on the absorption by an array of gold nano-particles on a dielectric surface. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 197, 106-113	2.1	8
27	Single-phase models for improved estimation of friction factor for laminar nanofluid flow in pipes. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 95, 416-425	4.9	8
26	Inverse characterization of nanoparticle clusters using unpolarized optical scattering without ex-situ measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 198, 117-129	2.1	7
25	Gaussian process and design of experiments for surrogate modeling of optical properties of fractal aggregates. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 239, 106643	2.1	5
24	Optical characterization limits of nanoparticle aggregates at different wavelengths using approximate Bayesian computation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 213, 113-118	2.1	5
23	Approximate Bayesian computation techniques for optical characterization of nanoparticle clusters. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018 , 35, 88-97	1.8	5
22	Efficient Signal Transport Model for Remote Thermometry in Full-Scale Thermal Processing Systems. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2010 , 23, 132-140	2.6	5
21	Thermal performance of thermoelectric cooler (tec) integrated heat sink and optimizing structure for low acoustic noise / power consumption 2006 ,		5
20	ACCURACY OF MONTE CARLO METHOD RE-EXAMINED ON A BOX-SHAPED FURNACE PROBLEM 1997 ,		5
19	A new interlayer potential for hexagonal boron nitride. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 385401	1.8	5
18	Improving photosynthetic efficiency using greenhouse coatings with scattering and fluorescent pigments. <i>Materials Research Express</i> , 2019 , 6, 085551	1.7	4
17	Monte Carlo method solution of the broadband fluorescent radiative transfer equation considering fluorescent cascade. <i>Applied Optics</i> , 2021 , 60, 1068-1077	1.7	4
16	Plasmon coupling between complex gold nanostructures and a dielectric substrate. <i>Applied Optics</i> , 2018 , 57, 8954-8963	1.7	3
15	Absorption and plasmon resonance of Bi-metallic core-shell nanoparticles on a dielectric substrate near an external tip. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 241, 106684	2.1	3
14	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	5.8	3
13	Inverse Design of Spectrally Selective Thickness Sensitive Pigmented Coatings for Solar Thermal Applications. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2018 , 140,	2.3	2
12	Monte Carlo Methods for Radiative Transfer 2018 , 1201-1242		2
11	Nanolayering around and thermal resistivity of the water-hexagonal boron nitride interface. <i>Journal of Chemical Physics</i> , 2017 , 147, 044709	3.9	2

10	Thermal characterization assessment of rigid and flexible water models in a nanogap using molecular dynamics. <i>Chemical Physics Letters</i> , 2017 , 687, 270-275	2.5	2
9	Modeling of a Radiative RTP-Type Furnace Through an Inverse Design: Mathematical Model and Experimental Results 2002 , 237		2
8	Design of a Rapid Thermal Processing Chamber Using an Inverse Formulation 2002 ,		2
7	GreenCube assessments of thermal transport in nanocolloids based on interfacial effects. <i>Materials Today Communications</i> , 2019 , 20, 100533	2.5	1
6	Improving crop production in solar illuminated vertical farms using fluorescence coatings. <i>Biosystems Engineering</i> , 2020 , 193, 25-36	4.8	1
5	Prediction of Thermal Conductivity and Shear Viscosity of Water-Cu Nanofluids Using Equilibrium Molecular Dynamics 2013 ,		1
4	Synthesis and Experimental Investigation of Rheological Behavior of EG and Water Based hBN Nanofluids 2013 ,		1
3	Characterization of Electronic Packages by Thermal Diffusion Tomography 2009 ,		1
2	Assessment of Single and Two-Phase Models for Nanofluid Flow at the Entrance Region of a Uniformly Heated Tube 2012 ,		1
1	Monte Carlo Methods for Radiative Transfer 2017 , 1-43		