

# Hakan Erturk

## List of Publications by Year in Descending Order

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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	Monte Carlo method solution of the broadband fluorescent radiative transfer equation considering fluorescent cascade. <i>Applied Optics</i> , <b>2021</b> , 60, 1068-1077	1.7	4
44	Convective heat transfer and pressure drop characteristics of graphene-water nanofluids in transitional flow. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 121, 105092	5.8	3
43	Improving crop production in solar illuminated vertical farms using fluorescence coatings. <i>Biosystems Engineering</i> , <b>2020</b> , 193, 25-36	4.8	1
42	Continuous and optimally complete description of chemical environments using Spherical Bessel descriptors. <i>AIP Advances</i> , <b>2020</b> , 10, 015021	1.5	9
41	Rheological and thermal characterization of graphene-water nanofluids: Hysteresis phenomenon. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 149, 119113	4.9	16
40	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> , <b>2020</b> , 241, 106684	2.1	3
39	Gaussian process and design of experiments for surrogate modeling of optical properties of fractal aggregates. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2019</b> , 239, 106643	2.1	5
38	Improving photosynthetic efficiency using greenhouse coatings with scattering and fluorescent pigments. <i>Materials Research Express</i> , <b>2019</b> , 6, 085551	1.7	4
37	GreenKubo assessments of thermal transport in nanocolloids based on interfacial effects. <i>Materials Today Communications</i> , <b>2019</b> , 20, 100533	2.5	1
36	A novel approach to describe chemical environments in high-dimensional neural network potentials. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 154102	3.9	17
35	Plasmonic responses of metallic/dielectric core-shell nanoparticles on a dielectric substrate. <i>Materials Research Express</i> , <b>2019</b> , 6, 065006	1.7	12
34	Optical characterization limits of nanoparticle aggregates at different wavelengths using approximate Bayesian computation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2018</b> , 213, 113-118	2.1	5
33	Inverse Design of Spectrally Selective Thickness Sensitive Pigmented Coatings for Solar Thermal Applications. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , <b>2018</b> , 140,	2.3	2
32	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> , <b>2018</b> , 35, 88-97	1.8	5
31	Monte Carlo Methods for Radiative Transfer <b>2018</b> , 1201-1242		2
30	Plasmon coupling between complex gold nanostructures and a dielectric substrate. <i>Applied Optics</i> , <b>2018</b> , 57, 8954-8963	1.7	3
29	Optimization of spectrally selective Si/SiO <sub>2</sub> based filters for thermophotovoltaic devices. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2017</b> , 197, 123-131	2.1	11

28	Experimental characterization of laminar forced convection of hBN-water nanofluid in circular pipe. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 111, 500-507	4.9	21
27	Inverse characterization of nanoparticle clusters using unpolarized optical scattering without ex-situ measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2017</b> , 198, 117-129	2.1	7
26	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> , <b>2017</b> , 197, 106-113	2.1	8
25	Nanolayering around and thermal resistivity of the water-hexagonal boron nitride interface. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 044709	3.9	2
24	Thermal characterization assessment of rigid and flexible water models in a nanogap using molecular dynamics. <i>Chemical Physics Letters</i> , <b>2017</b> , 687, 270-275	2.5	2
23	Monte Carlo Methods for Radiative Transfer <b>2017</b> , 1-43		
22	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> , <b>2016</b> , 178, 124-133	2.1	14
21	Single-phase models for improved estimation of friction factor for laminar nanofluid flow in pipes. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 95, 416-425	4.9	8
20	Experimental investigation of heat transfer enhancement and viscosity change of hBN nanofluids. <i>Experimental Thermal and Fluid Science</i> , <b>2016</b> , 77, 272-283	3	48
19	A new interlayer potential for hexagonal boron nitride. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 385401	1.8	5
18	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> , <b>2014</b> , 80, 83-92	4.1	118
17	Prediction of Thermal Conductivity and Shear Viscosity of Water-Cu Nanofluids Using Equilibrium Molecular Dynamics <b>2013</b> ,		1
16	Synthesis and Experimental Investigation of Rheological Behavior of EG and Water Based hBN Nanofluids <b>2013</b> ,		1
15	Assessment of Single and Two-Phase Models for Nanofluid Flow at the Entrance Region of a Uniformly Heated Tube <b>2012</b> ,		1
14	Evaluation of image reconstruction algorithms for non-destructive characterization of thermal interfaces. <i>International Journal of Thermal Sciences</i> , <b>2011</b> , 50, 906-917	4.1	10
13	Efficient Signal Transport Model for Remote Thermometry in Full-Scale Thermal Processing Systems. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2010</b> , 23, 132-140	2.6	5
12	Characterization of Electronic Packages by Thermal Diffusion Tomography <b>2009</b> ,		1
11	Validation of inverse boundary condition design in a thermometry test bed. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2008</b> , 109, 317-326	2.1	9

10	Thermal performance of thermoelectric cooler (tec) integrated heat sink and optimizing structure for low acoustic noise / power consumption <b>2006,</b>		5
9	Thermal Performance and Key Challenges for Future CPU Cooling Technologies <b>2005,</b> 353		17
8	Thermal Devices Integrated With Thermoelectric Modules With Applications to CPU Cooling <b>2005,</b> 2153		10
7	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> <b>2004,</b> 126, 619-626	3.3	9
6	The Use of Inverse Methods for the Design and Control of Radiant Sources. <i>JSME International Journal Series B,</i> <b>2003,</b> 46, 470-478		19
5	Comparison of three regularized solution techniques in a three-dimensional inverse radiation problem. <i>Journal of Quantitative Spectroscopy and Radiative Transfer,</i> <b>2002,</b> 73, 307-316	2.1	48
4	Modeling of a Radiative RTP-Type Furnace Through an Inverse Design: Mathematical Model and Experimental Results <b>2002,</b> 237		2
3	The Application of an Inverse Formulation in the Design of Boundary Conditions for Transient Radiating Enclosures. <i>Journal of Heat Transfer,</i> <b>2002,</b> 124, 1095-1102	1.8	39
2	Design of a Rapid Thermal Processing Chamber Using an Inverse Formulation <b>2002,</b>		2
1	ACCURACY OF MONTE CARLO METHOD RE-EXAMINED ON A BOX-SHAPED FURNACE PROBLEM <b>1997,</b>		5