

Keunhan Park

List of Publications by Year in descending order

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32
papers

970
citations

471509

17
h-index

434195

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g-index

32
all docs

32
docs citations

32
times ranked

940
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiative Heat Transfer Analysis in Plasmonic Nanofluids for Direct Solar Thermal Absorption. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134, .	1.8	146
2	Precision Measurement of Phonon-Polaritonic Near-Field Energy Transfer between Macroscale Planar Structures Under Large Thermal Gradients. Physical Review Letters, 2018, 120, 175901.	7.8	123
3	FUNDAMENTALS AND APPLICATIONS OF NEAR-FIELD RADIATIVE ENERGY TRANSFER. Frontiers in Heat and Mass Transfer, 2013, 4, .	0.2	69
4	Nanostructured chromium-based broadband absorbers and emitters to realize thermally stable solar thermophotovoltaic systems. Nanoscale, 2022, 14, 6425-6436.	5.6	69
5	Off-design performance analysis of a closed-cycle ocean thermal energy conversion system with solar thermal preheating and superheating. Renewable Energy, 2014, 72, 154-163.	8.9	56
6	Frequency-Dependent Electrical and Thermal Response of Heated Atomic Force Microscope Cantilevers. Journal of Microelectromechanical Systems, 2007, 16, 213-222.	2.5	45
7	Experimental Investigation on the Heat Transfer Between a Heated Microcantilever and a Substrate. Journal of Heat Transfer, 2008, 130, .	2.1	45
8	Hollow Microtube Resonators via Silicon Self-Assembly toward Subattogram Mass Sensing Applications. Nano Letters, 2016, 16, 1537-1545.	9.1	43
9	Finite element analysis of transient ballisticâ€“diffusive phonon heat transport in two-dimensional domains. International Journal of Heat and Mass Transfer, 2015, 80, 781-788.	4.8	39
10	Design analysis of doped-silicon surface plasmon resonance immunosensors in mid-infrared range. Optics Express, 2010, 18, 19396.	3.4	30
11	Precision density and volume contraction measurements of ethanolâ€“water binary mixtures using suspended microchannel resonators. Sensors and Actuators A: Physical, 2013, 194, 62-66.	4.1	24
12	Near-Infrared Responsive Goldâ€“Layersome Nanoshells. Langmuir, 2017, 33, 5321-5327.	3.5	23
13	Surface and magnetic polaritons on two-dimensional nanoslab-aligned multilayer structure. Optics Express, 2011, 19, 16375.	3.4	22
14	Diffusive-ballistic heat transport in thin films using energy conserving dissipative particle dynamics. International Journal of Heat and Mass Transfer, 2013, 61, 287-292.	4.8	21
15	Metallization strategies for In ₂ O ₃ -based amorphous oxide semiconductor materials. Journal of Materials Research, 2012, 27, 2299-2308.	2.6	20
16	Extreme near-field heat transfer between gold surfaces. Physical Review B, 2021, 104, .	3.2	19
17	Routine Femtogram-Level Chemical Analyses Using Vibrational Spectroscopy and Self-Cleaning Scanning Probe Microscopy Tips. Analytical Chemistry, 2008, 80, 3221-3228.	6.5	17
18	System scaling approach and thermoeconomic analysis of a pressure retarded osmosis system for power production with hypersaline draw solution: A Great Salt Lake case study. Energy, 2017, 126, 97-111.	8.8	17

#	ARTICLE	IF	CITATIONS
19	Finite dipole model for extreme near-field thermal radiation between a tip and planar SiC substrate. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 191, 67-74.	2.3	17
20	Near-field enhanced thermionic energy conversion for renewable energy recycling. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 198, 59-67.	2.3	15
21	Submicrometer-Gap Thermionic Power Generation Based on Comprehensive Modeling of Charge and Thermal Transport. <i>Physical Review Applied</i> , 2021, 15, .	3.8	15
22	Laser-assisted photothermal heating of a plasmonic nanoparticle-suspended droplet in a microchannel. <i>Analyst</i> , 2015, 140, 1535-1542.	3.5	14
23	Review: Tip-based vibrational spectroscopy for nanoscale analysis of emerging energy materials. <i>Frontiers in Energy</i> , 2018, 12, 43-71.	2.3	14
24	On the Group Front and Group Velocity in a Dispersive Medium Upon Refraction From a Nondispersive Medium. <i>Journal of Heat Transfer</i> , 2004, 126, 244-249.	2.1	13
25	Patchy Layersomes Formed by Layer-by-Layer Coating of Liposomes with Strong Biopolyelectrolytes. <i>Biomacromolecules</i> , 2016, 17, 3838-3844.	5.4	12
26	First-principles calculations of phonon transport across a vacuum gap. <i>Physical Review B</i> , 2022, 105, .	3.2	11
27	Comprehensive energy balance analysis of photon-enhanced thermionic power generation considering concentrated solar absorption distribution. <i>Solar Energy Materials and Solar Cells</i> , 2021, 226, 111067.	6.2	10
28	Room-temperature temperature sensitivity and resolution of doped-silicon microcantilevers. <i>Applied Physics Letters</i> , 2009, 94, 243503.	3.3	9
29	Quantitative probing of tip-induced local cooling with a resistive nanoheater/thermometer. <i>Applied Physics Letters</i> , 2016, 109, 253114.	3.3	6
30	Feedback control of local hotspot temperature using resistive on-substrate nanoheater/thermometer. <i>Review of Scientific Instruments</i> , 2018, 89, 064902.	1.3	5
31	Temperature sensitivity of scattering-type near-field nanoscopic imaging in the visible range. <i>Applied Optics</i> , 2019, 58, 1978.	1.8	1
32	Electrothermal Characterization of Doped-Si Heated Microcantilevers Under Periodic Heating Operation. <i>Journal of Heat Transfer</i> , 2016, 138, .	2.1	0