

Hohyun Lee

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

4,222
citations

567144

15
h-index

713332

21
g-index

24
all docs

24
docs citations

24
times ranked

5629
citing authors

#	ARTICLE	IF	CITATIONS
1	New Directions for Low-Dimensional Thermoelectric Materials. <i>Advanced Materials</i> , 2007, 19, 1043-1053.	11.1	3,468
2	Effects of nanoscale porosity on thermoelectric properties of SiGe. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	181
3	Nanofluid PCMs for thermal energy storage: Latent heat reduction mechanisms and a numerical study of effective thermal storage performance. <i>International Journal of Heat and Mass Transfer</i> , 2014, 78, 1145-1154.	2.5	69
4	Influence of electrical current variance and thermal resistances on optimum working conditions and geometry for thermoelectric energy harvesting. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	66
5	Energy saving impact of occupancy-driven thermostat for residential buildings. <i>Energy and Buildings</i> , 2020, 211, 109791.	3.1	53
6	Design of a high temperature cavity receiver for residential scale concentrated solar power. <i>Energy</i> , 2012, 47, 481-487.	4.5	51
7	Power generation modeling for a wearable thermoelectric energy harvester with practical limitations. <i>Applied Energy</i> , 2016, 183, 218-228.	5.1	49
8	Design of a low-profile two-axis solar tracker. <i>Solar Energy</i> , 2013, 97, 569-576.	2.9	45
9	Uninterrupted thermoelectric energy harvesting using temperature-sensor-based maximum power point tracking system. <i>Energy Conversion and Management</i> , 2014, 86, 233-240.	4.4	35
10	Experimental Investigation of Mechanical and Thermal Properties of Silica Nanoparticle-Reinforced Poly(acrylamide) Nanocomposite Hydrogels. <i>PLoS ONE</i> , 2015, 10, e0136293.	1.1	33
11	Integrated sensor data processing for occupancy detection in residential buildings. <i>Energy and Buildings</i> , 2021, 237, 110810.	3.1	30
12	Optimization Strategies for a Portable Thermoelectric Vaccine Refrigeration System in Developing Communities. <i>Journal of Electronic Materials</i> , 2015, 44, 1614-1626.	1.0	28
13	Effect of DC-DC voltage step-up converter impedance on thermoelectric energy harvester system design strategy. <i>Applied Energy</i> , 2019, 239, 898-907.	5.1	20
14	Thermoelectric module design strategy for solid-state refrigeration. <i>Energy</i> , 2016, 114, 823-832.	4.5	19
15	Achieving Maximum Power in Thermoelectric Generation with Simple Power Electronics. <i>Journal of Electronic Materials</i> , 2014, 43, 1597-1602.	1.0	17
16	Exergetic analysis of a solar thermoelectric generator. <i>Energy</i> , 2015, 91, 84-90.	4.5	16
17	Investigation of the Effect of Electrical Current Variance on Thermoelectric Energy Harvesting. <i>Journal of Electronic Materials</i> , 2014, 43, 1744-1751.	1.0	12
18	EnergyPlus Integration Into Cosimulation Environment to Improve Home Energy Saving Through Cyber-Physical Systems Development. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019, 141, .	1.4	9

#	ARTICLE	IF	CITATIONS
19	Optimized working conditions for a thermoelectric generator as a topping cycle for gas turbines. Journal of Applied Physics, 2012, 112, 073515.	1.1	7
20	Residential Solar Combined Heat and Power Generation using Solar Thermoelectric Generation. Journal of Electronic Materials, 2015, 44, 2132-2141.	1.0	7
21	Residential House Occupancy Detection: Trust-Based Scheme Using Economic and Privacy-Aware Sensors. IEEE Internet of Things Journal, 2022, 9, 1938-1950.	5.5	3
22	Economical and Non-Invasive Residential Human Presence Sensing via Temperature Measurement. , 2018, , .		3
23	Power Wearable Medical Device Components Via Thermoelectric Circuit Integration. , 2019, , .		1
24	Special Issue for the 12th International Conference on Energy Sustainability (ES2018). Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	1.4	0