Hohyun Lee

List of Publications by Year
in descending order

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		567144	713332
24	4,222	15	21
papers	citations	h-index	g-index

24	24	24	5629
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Integrated sensor data processing for occupancy detection in residential buildings. Energy and Buildings, 2021, 237, 110810.	3.1	30
3	Energy saving impact of occupancy-driven thermostat for residential buildings. Energy and Buildings, 2020, 211, 109791.	3.1	53
4	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
5	EnergyPlus Integration Into Cosimulation Environment to Improve Home Energy Saving Through Cyber-Physical Systems Development. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	1.4	9
6	Effect of DC-DC voltage step-up converter impedance on thermoelectric energy harvester system design strategy. Applied Energy, 2019, 239, 898-907.	5.1	20
7	Power Wearable Medical Device Components Via Thermoelectric Circuit Integration. , 2019, , .		1
8	Economical and Non-Invasive Residential Human Presence Sensing via Temperature Measurement. , 2018, , .		3
9	Thermoelectric module design strategy for solid-state refrigeration. Energy, 2016, 114, 823-832.	4.5	19
10	Power generation modeling for a wearable thermoelectric energy harvester with practical limitations. Applied Energy, 2016, 183, 218-228.	5.1	49
11	Experimental Investigation of Mechanical and Thermal Properties of Silica Nanoparticle-Reinforced Poly(acrylamide) Nanocomposite Hydrogels. PLoS ONE, 2015, 10, e0136293.	1.1	33
12	Optimization Strategies for a Portable Thermoelectric Vaccine Refrigeration System in Developing Communities. Journal of Electronic Materials, 2015, 44, 1614-1626.	1.0	28
13	Residential Solar Combined Heat and Power Generation using Solar Thermoelectric Generation. Journal of Electronic Materials, 2015, 44, 2132-2141.	1.0	7
14	Exergetic analysis of a solar thermoelectric generator. Energy, 2015, 91, 84-90.	4.5	16
15	Nanofluid PCMs for thermal energy storage: Latent heat reduction mechanisms and a numerical study of effective thermal storage performance. International Journal of Heat and Mass Transfer, 2014, 78, 1145-1154.	2.5	69
16	Achieving Maximum Power in Thermoelectric Generation with Simple Power Electronics. Journal of Electronic Materials, 2014, 43, 1597-1602.	1.0	17
17	Investigation of the Effect of Electrical Current Variance on Thermoelectric Energy Harvesting. Journal of Electronic Materials, 2014, 43, 1744-1751.	1.0	12
18	Uninterrupted thermoelectric energy harvesting using temperature-sensor-based maximum power point tracking system. Energy Conversion and Management, 2014, 86, 233-240.	4.4	35

#	Article	IF	Citations
19	Design of a low-profile two-axis solar tracker. Solar Energy, 2013, 97, 569-576.	2.9	45
20	Influence of electrical current variance and thermal resistances on optimum working conditions and geometry for thermoelectric energy harvesting. Journal of Applied Physics, 2013, 113, .	1.1	66
21	Optimized working conditions for a thermoelectric generator as a topping cycle for gas turbines. Journal of Applied Physics, 2012, 112, 073515.	1.1	7
22	Design of a high temperature cavity receiver for residential scale concentrated solar power. Energy, 2012, 47, 481-487.	4.5	51
23	Effects of nanoscale porosity on thermoelectric properties of SiGe. Journal of Applied Physics, 2010, 107, .	1.1	181
24	New Directions for Low-Dimensional Thermoelectric Materials. Advanced Materials, 2007, 19, 1043-1053.	11.1	3,468