

Moo-Yeon Lee

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.

93
papers

872
citations

17
h-index

25
g-index

97
ext. papers

1,184
ext. citations

2.7
avg, IF

5.28
L-index

#	Paper	IF	Citations
93	Review on Performance Enhancement of Photovoltaic/Thermal/Thermoelectric Generator Systems with Nanofluid Cooling. <i>Symmetry</i> , 2022 , 14, 36	2.7	1
92	Heat Flow Characteristics of Ferrofluid in Magnetic Field Patterns for Electric Vehicle Power Electronics Cooling. <i>Symmetry</i> , 2022 , 14, 1063	2.7	1
91	Fuzzy Logic Energy Management for Photovoltaic System 2022 , 1-34		
90	Energy, exergy, environmental sustainability and economic analyses for automotive thermoelectric generator system with various configurations. <i>Energy</i> , 2021 , 122587	7.9	4
89	Energy Saving and Economic Evaluations of Exhaust Waste Heat Recovery Hot Water Supply System for Resort. <i>Symmetry</i> , 2021 , 13, 624	2.7	0
88	Numerical Investigations on Heat Transfer Characteristics of Single Particle and Hybrid Nanofluids in Uniformly Heated Tube. <i>Symmetry</i> , 2021 , 13, 876	2.7	10
87	Numerical approach-based simulation to predict cerebrovascular shear stress in a blood-brain barrier organ-on-a-chip. <i>Biosensors and Bioelectronics</i> , 2021 , 183, 113197	11.8	4
86	Thermal/Electrical/Structural performances of hot heat exchanger with different internal fins of thermoelectric generator for low power generation application. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 387-419	4.1	10
85	A review on modeling of solar photovoltaic systems using artificial neural networks, fuzzy logic, genetic algorithm and hybrid models. <i>International Journal of Energy Research</i> , 2021 , 45, 6-35	4.5	41
84	Grey relational based Taguchi analysis on thermal and electrical performances of thermoelectric generator system with inclined fins hot heat exchanger. <i>Applied Thermal Engineering</i> , 2021 , 184, 116279	5.8	14
83	Numerical study on magneto-acoustic thermal characteristics of micro-speaker for mobile phones. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 164, 120479	4.9	1
82	A novel dielectric fluid immersion cooling technology for Li-ion battery thermal management. <i>Energy Conversion and Management</i> , 2021 , 229, 113715	10.6	25
81	Numerical study on sensitivity analysis of factors influencing liquid cooling with double cold-plate for lithium-ion pouch cell. <i>International Journal of Energy Research</i> , 2021 , 45, 2533-2559	4.5	30
80	Experimental Study on Heating Performances of Integrated Battery and HVAC System with Serial and Parallel Circuits for Electric Vehicle. <i>Symmetry</i> , 2021 , 13, 93	2.7	1
79	First and Second Law Thermodynamic Analyses of Hybrid Nanofluid with Different Particle Shapes in a Microplate Heat Exchanger. <i>Symmetry</i> , 2021 , 13, 1466	2.7	4
78	Electrical Performance Comparison between Conventional Pi Shaped and Linear Shaped Thermoelectric Generators. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 894, 012001	0.4	1
77	Investigation on thermal performance of water-cooled Li-ion pouch cell and pack at high discharge rate with U-turn type microchannel cold plate. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 155, 119728	4.9	66

76	Power Generation, Efficiency and Thermal Stress of Thermoelectric Module with Leg Geometry, Material, Segmentation and Two-Stage Arrangement. <i>Symmetry</i> , 2020 , 12, 786	2.7	19
75	Thermal Abuse Behavior of the LIR2450 Micro Coin Cell Battery Having Capacity of 120 mAh with Internal Short Circuit by Penetrating Element. <i>Symmetry</i> , 2020 , 12, 246	2.7	3
74	Artificial Neural Network and Adaptive Neuro-Fuzzy Interface System Modelling to Predict Thermal Performances of Thermoelectric Generator for Waste Heat Recovery. <i>Symmetry</i> , 2020 , 12, 259	2.7	15
73	Numerical Investigations on Magnetohydrodynamic Pump Based Microchannel Cooling System for Heat Dissipating Element. <i>Symmetry</i> , 2020 , 12, 1713	2.7	1
72	A Study on Performance Characteristics of a Heat Pump System with High-Pressure Side Chiller for Light-Duty Commercial Electric Vehicles. <i>Symmetry</i> , 2020 , 12, 1237	2.7	1
71	Numerical study of fin geometry on the heat transfer characteristics of 72 V ECU heatsink for an electric three-wheeler. <i>Journal of Mechanical Science and Technology</i> , 2019 , 33, 1451-1462	1.6	3
70	Numerical Study on Geometric Parameter effects of Power Generation Performances for Segmented Thermoelectric Generator 2018 , 26, 1850004		6
69	Numerical study on thermal performances of 2.0 kW burner for the cabin heater of an electric passenger vehicle. <i>Applied Thermal Engineering</i> , 2018 , 138, 819-831	5.8	6
68	Heat transfer characteristics of the integrated heating system for cabin and battery of an electric vehicle under cold weather conditions. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 117, 80-94	4.9	25
67	Illuminance and heat transfer characteristics of high power LED cooling system with heat sink filled with ferrofluid. <i>Applied Thermal Engineering</i> , 2018 , 143, 438-449	5.8	17
66	Numerical Study on Heat Transfer Characteristics of the 36V Electronic Control Unit System for an Electric Bicycle. <i>Energies</i> , 2018 , 11, 2506	3.1	
65	Macroscopic and Microscopic Spray Characteristics of Diesel and Gasoline in a Constant Volume Chamber. <i>Energies</i> , 2018 , 11, 2056	3.1	13
64	Transient numerical investigation on cold plate based water cooling system for battery module with large lithium-ion pouch cells. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 455, 012050	0.4	1
63	Cooling Performance Characteristics of 20 Ah Lithium-Ion Pouch Cell with Cold Plates along Both Surfaces. <i>Energies</i> , 2018 , 11, 2550	3.1	24
62	Growth of ZnO nanowires on multi-layered polymer structures fabricated by UV liquid transfer imprint lithography. <i>Microelectronic Engineering</i> , 2017 , 176, 45-53	2.5	4
61	Electrochemical corrosion behavior and surface modification of ZrB ₂ in hydrofluoric acid aqueous solution. <i>International Journal of Applied Ceramic Technology</i> , 2017 , 14, 779-784	2	1
60	Design and Cooling Performances of an Air Conditioning System with Two Parallel Refrigeration Cycles for a Special Purpose Vehicle. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 190	2.6	2
59	Heat transfer characteristics of the heat exchangers for refrigeration, air conditioning and heat pump systems under frosting, defrosting and dry/wet conditionsA review. <i>Applied Thermal Engineering</i> , 2017 , 113, 1071-1087	5.8	40

58	Experimental Investigation of Heat Transfer Characteristics of Battery Management System and Electronic Control Unit of Neighborhood Electric Vehicle. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 205-211	0.2	1
57	Experimental and Numerical Study on the Thermal Performances of Battery Cell and ECU for an E-Bike. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 195-204	0.2	2
56	Steady state and start-up performance characteristics of air source heat pump for cabin heating in an electric passenger vehicle. <i>International Journal of Refrigeration</i> , 2016 , 69, 232-242	3.8	24
55	A New Robust Design Method Using Neural Network. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2016 , 11, 68-78	1.3	2
54	A Novel Design for Lithium ion Battery Cooling using Mineral Oil 2016 ,		7
53	Analysis of Factors Influencing on Heat Transfer Characteristics of Automobile LED Headlamp. <i>International Journal of Control and Automation</i> , 2016 , 9, 263-272	1.9	2
52	Investigation on the Performance of Special Purpose Automotive Air-Conditioning System Using Dual Refrigeration Cycle. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , 2016 , 40, 213-220	0.5	2
51	Review of the Thermo-Physical Properties and Performance Characteristics of a Refrigeration System Using Refrigerant-Based Nanofluids. <i>Energies</i> , 2016 , 9, 22	3.1	21
50	Cooling Performance Characteristics of the Stack Thermal Management System for Fuel Cell Electric Vehicles under Actual Driving Conditions. <i>Energies</i> , 2016 , 9, 320	3.1	9
49	Review on Synthesis, Thermo-Physical Property, and Heat Transfer Mechanism of Nanofluids. <i>Energies</i> , 2016 , 9, 840	3.1	35
48	New electro-magnetic actuator for active vibration isolators. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015 , 16, 209-212	1.7	7
47	Thermophysical Characteristics of the Ferrofluid in a Vertical Rectangle. <i>Entropy</i> , 2015 , 17, 903-913	2.8	4
46	Two color Laser induced confocal fluorescent thermometry: Design and experiments. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015 , 16, 567-571	1.7	1
45	Displacement analysis of a Single-Bent leaf flexure under transverse load. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015 , 16, 749-754	1.7	4
44	Color Distortion-Aware Error Control for Backlight Dimming. <i>Journal of Display Technology</i> , 2015 , 11, 79-85		7
43	Evaluation of the Effect of Operating Parameters on Thermal Performance of an Integrated Starter Generator in Hybrid Electric Vehicles. <i>Energies</i> , 2015 , 8, 8990-9008	3.1	5
42	Compliance Matrix of a Single-Bent Leaf Flexure for a Modal Analysis. <i>Shock and Vibration</i> , 2015 , 2015, 1-10	1.1	4
41	Torsional analysis of a single-bent leaf flexure. <i>Structural Engineering and Mechanics</i> , 2015 , 54, 189-198		3

40	Numerical study on the thermal performance characteristics of the stack system for FCEV. <i>Journal of the Korea Academia-Industrial Cooperation Society</i> , 2015 , 16, 3708-3713		1
39	Thermodynamic behaviors of magnetic-fluid in a thin channel with magnetic field and aspect ratio. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014 , 15, 1377-1382	1.7	3
38	Least material optimization of natural-convective heat sinks. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014 , 15, 1389-1395	1.7	9
37	Ferrite multiphase/carbon nanotube composites sintered by spark plasma sintering. <i>Journal of the Ceramic Society of Japan</i> , 2014 , 122, 768-771	1	3
36	Ferrite multiphase/carbon nanotube composites sintered by microwave sintering and spark plasma sintering. <i>Journal of the Ceramic Society of Japan</i> , 2014 , 122, 881-885	1	2
35	Transition in micro/nano-scale mechanical properties of ZrO ₂ /multi-wall carbon nanotube composites. <i>Journal of the Ceramic Society of Japan</i> , 2014 , 122, 1028-1031	1	6
34	A double-bent planar leaf flexure guide for a nano-scanner: Experimental report. <i>Journal of the Korean Physical Society</i> , 2014 , 65, 1493-1495	0.6	2
33	Numerical Investigation on the Temperature Characteristics of the Voice Coil for a Woofer Using Thermal Equivalent Heat Conduction Models. <i>Entropy</i> , 2014 , 16, 4121-4131	2.8	1
32	Performance Evaluation of an In-Wheel Motor Cooling System in an Electric Vehicle/Hybrid Electric Vehicle. <i>Energies</i> , 2014 , 7, 961-971	3.1	19
31	Heat Transfer Characteristics of a Speaker Using Nano-Sized Ferrofluid. <i>Entropy</i> , 2014 , 16, 5891-5900	2.8	7
30	Theoretical approach on the heating and cooling system design for an effective operation of Li-ion batteries for electric vehicles. <i>Journal of the Korea Academia-Industrial Cooperation Society</i> , 2014 , 15, 2545-2552		2
29	Frost growth characteristics of spirally-coiled circular fin-tube heat exchangers under frosting conditions. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 64, 1-9	4.9	13
28	Performance characteristics of mobile heat pump for a large passenger electric vehicle. <i>Applied Thermal Engineering</i> , 2013 , 50, 660-669	5.8	46
27	REVIEW OF CONVENTIONAL AIR CONDITIONING SYSTEM FOR INTERNAL COMBUSTION ENGINES 2013 , 21, 1330001		4
26	Numerical Investigation on Heat and Flow Characteristics of Temperature-Sensitive Ferrofluid in a Square Cavity. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 240438	1.2	6
25	Review on Conventional Air Conditioning, Alternative Refrigerants, and CO ₂ Heat Pumps for Vehicles. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 713924	1.2	9
24	Cooling Performance Characteristics on Mobile Air-Conditioning System for Hybrid Electric Vehicles. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 282313	1.2	6
23	Study of Natural Convection of Magnetic Fluid in Cubic Cavity. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , 2013 , 37, 637-646	0.5	3

22	Numerical Analysis on Temperature Characteristics of the Voice-Coil for Woofer Speaker Using Ferrofluid. <i>Journal of the Korean Magnetics Society</i> , 2013 , 23, 166-172	2	6
21	Numerical analysis on thermal-fluidic characteristics of the magnetic fluid in a cavity using GSMAC. <i>Journal of the Korea Academia-Industrial Cooperation Society</i> , 2013 , 14, 997-1002		3
20	Study on Performance Characteristics of Spiral Fin-Tube Evaporator Applied to Domestic Refrigerator-Freezers. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , 2013 , 37, 205-212	0.5	
19	The FEM based liquid transfer model in gravure offset printing using phase field method. <i>Microsystem Technologies</i> , 2012 , 18, 2027-2034	1.7	7
18	Nano-scanner for scanning probe microscopes. <i>Journal of the Korean Physical Society</i> , 2012 , 61, 1358-1364		6
17	Heating performance characteristics of stack coolant source heat pump using R744 for fuel cell electric vehicles. <i>Journal of Mechanical Science and Technology</i> , 2012 , 26, 2065-2071	1.6	22
16	A compact and fast nano-stylus profiling head for optical instruments. <i>Journal of Mechanical Science and Technology</i> , 2012 , 26, 2077-2080	1.6	1
15	Preparation and application of the 3CBiC substrate to piezoelectric micro cantilever transducers. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 108, 161-170	2.6	
14	Characteristic Evaluation on the Cooling Performance of an Electrical Air Conditioning System Using R744 for a Fuel Cell Electric Vehicle. <i>Energies</i> , 2012 , 5, 1371-1383	3.1	17
13	Experimental Study on Frost Height of Round Plate Fin-Tube Heat Exchangers for Mobile Heat Pumps. <i>Energies</i> , 2012 , 5, 3479-3491	3.1	13
12	Measurement and Evaluation of Heating Performance of Heat Pump Systems Using Wasted Heat from Electric Devices for an Electric Bus. <i>Energies</i> , 2012 , 5, 658-669	3.1	41
11	Numerical Model on Frost Height of Round Plate Fin Used for Outdoor Heat Exchanger of Mobile Electric Heat Pumps. <i>Advances in Mechanical Engineering</i> , 2012 , 4, 863731	1.2	1
10	Pure Nano-Rotation Scanner. <i>Advances in Mechanical Engineering</i> , 2012 , 4, 962439	1.2	2
9	Experimental Study on Heat Transfer Characteristics of Thermosyphon Using Nanofluids. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , 2012 , 36, 1073-1079	0.5	
8	Optimization of functional layers in piezoelectric thick film MEMS process 2011 ,		1
7	Heat transfer characteristics of spirally-coiled circular fin-tube heat exchangers operating under frosting conditions. <i>International Journal of Refrigeration</i> , 2011 , 34, 328-336	3.8	14
6	Study on Cooling Performance Characteristics of Air Conditioning System Using R744 for a Passenger Vehicle. <i>Journal of the Korea Academia-Industrial Cooperation Society</i> , 2011 , 12, 5457-5463		2
5	Effects of cross-sectional change on the isotachphoresis process for protein-separation chip design. <i>Microsystem Technologies</i> , 2010 , 16, 1931-1938	1.7	6

4	A Double-bent Planar Leaf Flexure Guide for a Nano-scanner. <i>Journal of the Korean Physical Society</i> , 2010 , 57, 1581-1588	0.6	4
3	Analysis and Suppression Plan for Structure and Flow induced Noise in a Small Refrigeration System. <i>Journal of the Korea Academia-Industrial Cooperation Society</i> , 2010 , 11, 4129-4136		1
2	Accurate measurement of the out-of-plane motion of a tip-scanning atomic force microscope. <i>International Journal of Precision Engineering and Manufacturing</i> , 2009 , 10, 119-121	1.7	4
1	Performance characteristics of a small-capacity directly cooled refrigerator using R290/R600a (55/45). <i>International Journal of Refrigeration</i> , 2008 , 31, 734-741	3.8	47