Moo-Yeon Lee

List of Publications by Citations

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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	Investigation on thermal performance of water-cooled Li-ion pouch cell and pack at high discharge rate with U-turn type microchannel cold plate. *International Journal of Heat and Mass Transfer*, **2020**, 155, 119728	4.9	66
92	Performance characteristics of a small-capacity directly cooled refrigerator using R290/R600a (55/45). *International Journal of Refrigeration*, **2008**, 31, 734-741	3.8	47
91	Performance characteristics of mobile heat pump for a large passenger electric vehicle. *Applied Thermal Engineering*, **2013**, 50, 660-669	5.8	46
90	Measurement and Evaluation of Heating Performance of Heat Pump Systems Using Wasted Heat from Electric Devices for an Electric Bus. *Energies*, **2012**, 5, 658-669	3.1	41
89	A review on modeling of solar photovoltaic systems using artificial neural networks, fuzzy logic, genetic algorithm and hybrid models. *International Journal of Energy Research*, **2021**, 45, 6-35	4.5	41
88	Heat transfer characteristics of the heat exchangers for refrigeration, air conditioning and heat pump systems under frosting, defrosting and dry/wet conditions: A review. *Applied Thermal Engineering*, **2017**, 113, 1071-1087	5.8	40
87	Review on Synthesis, Thermo-Physical Property, and Heat Transfer Mechanism of Nanofluids. *Energies*, **2016**, 9, 840	3.1	35
86	Numerical study on sensitivity analysis of factors influencing liquid cooling with double cold-plate for lithium-ion pouch cell. *International Journal of Energy Research*, **2021**, 45, 2533-2559	4.5	30
85	Heat transfer characteristics of the integrated heating system for cabin and battery of an electric vehicle under cold weather conditions. *International Journal of Heat and Mass Transfer*, **2018**, 117, 80-94	4.9	25
84	A novel dielectric fluid immersion cooling technology for Li-ion battery thermal management. *Energy Conversion and Management*, **2021**, 229, 113715	10.6	25
83	Steady state and start-up performance characteristics of air source heat pump for cabin heating in an electric passenger vehicle. *International Journal of Refrigeration*, **2016**, 69, 232-242	3.8	24
82	Cooling Performance Characteristics of 20 Ah Lithium-Ion Pouch Cell with Cold Plates along Both Surfaces. *Energies*, **2018**, 11, 2550	3.1	24
81	Heating performance characteristics of stack coolant source heat pump using R744 for fuel cell electric vehicles. *Journal of Mechanical Science and Technology*, **2012**, 26, 2065-2071	1.6	22
80	Review of the Thermo-Physical Properties and Performance Characteristics of a Refrigeration System Using Refrigerant-Based Nanofluids. *Energies*, **2016**, 9, 22	3.1	21
79	Power Generation, Efficiency and Thermal Stress of Thermoelectric Module with Leg Geometry, Material, Segmentation and Two-Stage Arrangement. *Symmetry*, **2020**, 12, 786	2.7	19
78	Performance Evaluation of an In-Wheel Motor Cooling System in an Electric Vehicle/Hybrid Electric Vehicle. *Energies*, **2014**, 7, 961-971	3.1	19
77	Illuminance and heat transfer characteristics of high power LED cooling system with heat sink filled with ferrofluid. *Applied Thermal Engineering*, **2018**, 143, 438-449	5.8	17

76	Characteristic Evaluation on the Cooling Performance of an Electrical Air Conditioning System Using R744 for a Fuel Cell Electric Vehicle. *Energies*, **2012**, 5, 1371-1383	3.1	17
75	Artificial Neural Network and Adaptive Neuro-Fuzzy Interface System Modelling to Predict Thermal Performances of Thermoelectric Generator for Waste Heat Recovery. *Symmetry*, **2020**, 12, 259	2.7	15
74	Heat transfer characteristics of spirally-coiled circular fin-tube heat exchangers operating under frosting conditions. *International Journal of Refrigeration*, **2011**, 34, 328-336	3.8	14
73	Grey relational based Taguchi analysis on thermal and electrical performances of thermoelectric generator system with inclined fins hot heat exchanger. *Applied Thermal Engineering*, **2021**, 184, 116279	5.8	14
72	Frost growth characteristics of spirally-coiled circular fin-tube heat exchangers under frosting conditions. *International Journal of Heat and Mass Transfer*, **2013**, 64, 1-9	4.9	13
71	Experimental Study on Frost Height of Round Plate Fin-Tube Heat Exchangers for Mobile Heat Pumps. *Energies*, **2012**, 5, 3479-3491	3.1	13
70	Macroscopic and Microscopic Spray Characteristics of Diesel and Gasoline in a Constant Volume Chamber. *Energies*, **2018**, 11, 2056	3.1	13
69	Numerical Investigations on Heat Transfer Characteristics of Single Particle and Hybrid Nanofluids in Uniformly Heated Tube. *Symmetry*, **2021**, 13, 876	2.7	10
68	Thermal□electrical□tructural performances of hot heat exchanger with different internal fins of thermoelectric generator for low power generation application. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 387-419	4.1	10
67	Least material optimization of natural-convective heat sinks. *International Journal of Precision Engineering and Manufacturing*, **2014**, 15, 1389-1395	1.7	9
66	Review on Conventional Air Conditioning, Alternative Refrigerants, and CO2 Heat Pumps for Vehicles. *Advances in Mechanical Engineering*, **2013**, 5, 713924	1.2	9
65	Cooling Performance Characteristics of the Stack Thermal Management System for Fuel Cell Electric Vehicles under Actual Driving Conditions. *Energies*, **2016**, 9, 320	3.1	9
64	New electro-magnetic actuator for active vibration isolators. *International Journal of Precision Engineering and Manufacturing*, **2015**, 16, 209-212	1.7	7
63	Color Distortion-Aware Error Control for Backlight Dimming. *Journal of Display Technology*, **2015**, 11, 79-85		7
62	Heat Transfer Characteristics of a Speaker Using Nano-Sized Ferrofluid. *Entropy*, **2014**, 16, 5891-5900	2.8	7
61	The FEM based liquid transfer model in gravure offset printing using phase field method. *Microsystem Technologies*, **2012**, 18, 2027-2034	1.7	7
60	A Novel Design for Lithium ion Battery Cooling using Mineral Oil **2016**,		7
59	Numerical Study on Geometric Parameter effects of Power Generation Performances for Segmented Thermoelectric Generator **2018**, 26, 1850004		6

58	Numerical study on thermal performances of 2.0 kW burner for the cabin heater of an electric passenger vehicle. *Applied Thermal Engineering*, **2018**, 138, 819-831	5.8	6
57	Transition in micro/nano-scale mechanical properties of ZrO2/multi-wall carbon nanotube composites. *Journal of the Ceramic Society of Japan*, **2014**, 122, 1028-1031	1	6
56	Numerical Investigation on Heat and Flow Characteristics of Temperature-Sensitive Ferrofluid in a Square Cavity. *Advances in Mechanical Engineering*, **2013**, 5, 240438	1.2	6
55	Effects of cross-sectional change on the isotachphoresis process for protein-separation chip design. *Microsystem Technologies*, **2010**, 16, 1931-1938	1.7	6
54	Cooling Performance Characteristics on Mobile Air-Conditioning System for Hybrid Electric Vehicles. *Advances in Mechanical Engineering*, **2013**, 5, 282313	1.2	6
53	Numerical Analysis on Temperature Characteristics of the Voice-Coil for Woofer Speaker Using Ferrofluid. *Journal of the Korean Magnetics Society*, **2013**, 23, 166-172	2	6
52	Evaluation of the Effect of Operating Parameters on Thermal Performance of an Integrated Starter Generator in Hybrid Electric Vehicles. *Energies*, **2015**, 8, 8990-9008	3.1	5
51	Growth of ZnO nanowires on multi-layered polymer structures fabricated by UV liquid transfer imprint lithography. *Microelectronic Engineering*, **2017**, 176, 45-53	2.5	4
50	Thermophysical Characteristics of the Ferrofluid in a Vertical Rectangle. *Entropy*, **2015**, 17, 903-913	2.8	4
49	Displacement analysis of a Single-Bent leaf flexure under transverse load. *International Journal of Precision Engineering and Manufacturing*, **2015**, 16, 749-754	1.7	4
48	Compliance Matrix of a Single-Bent Leaf Flexure for a Modal Analysis. *Shock and Vibration*, **2015**, 2015, 1-10	1.1	4
47	REVIEW OF CONVENTIONAL AIR CONDITIONING SYSTEM FOR INTERNAL COMBUSTION ENGINES **2013**, 21, 1330001		4
46	Accurate measurement of the out-of-plane motion of a tip-scanning atomic force microscope. *International Journal of Precision Engineering and Manufacturing*, **2009**, 10, 119-121	1.7	4
45	Energy, exergy, environmental sustainability and economic analyses for automotive thermoelectric generator system with various configurations. *Energy*, **2021**, 122587	7.9	4
44	A Double-bent Planar Leaf Flexure Guide for a Nano-scanner. *Journal of the Korean Physical Society*, **2010**, 57, 1581-1588	0.6	4
43	Numerical approach-based simulation to predict cerebrovascular shear stress in a blood-brain barrier organ-on-a-chip. *Biosensors and Bioelectronics*, **2021**, 183, 113197	11.8	4
42	First and Second Law Thermodynamic Analyses of Hybrid Nanofluid with Different Particle Shapes in a Microplate Heat Exchanger. *Symmetry*, **2021**, 13, 1466	2.7	4
41	Numerical study of fin geometry on the heat transfer characteristics of 72 V ECU heatsink for an electric three-wheeler. *Journal of Mechanical Science and Technology*, **2019**, 33, 1451-1462	1.6	3

40	Thermal Abuse Behavior of the LIR2450 Micro Coin Cell Battery Having Capacity of 120 mAh with Internal Short Circuit by Penetrating Element. *Symmetry*, **2020**, 12, 246	2.7	3
39	Thermodynamic behaviors of magnetic-fluid in a thin channel with magnetic field and aspect ratio. *International Journal of Precision Engineering and Manufacturing*, **2014**, 15, 1377-1382	1.7	3
38	Ferrite multiphase/carbon nanotube composites sintered by spark plasma sintering. *Journal of the Ceramic Society of Japan*, **2014**, 122, 768-771	1	3
37	Torsional analysis of a single-bent leaf flexure. *Structural Engineering and Mechanics*, **2015**, 54, 189-198		3
36	Study of Natural Convection of Magnetic Fluid in Cubic Cavity. *Transactions of the Korean Society of Mechanical Engineers, B*, **2013**, 37, 637-646	0.5	3
35	Numerical analysis on thermal-fluidic characteristics of the magnetic fluid in a cavity using GSMAC. *Journal of the Korea Academia-Industrial Cooperation Society*, **2013**, 14, 997-1002		3
34	Design and Cooling Performances of an Air Conditioning System with Two Parallel Refrigeration Cycles for a Special Purpose Vehicle. *Applied Sciences (Switzerland)*, **2017**, 7, 190	2.6	2
33	Ferrite multiphase/carbon nanotube composites sintered by microwave sintering and spark plasma sintering. *Journal of the Ceramic Society of Japan*, **2014**, 122, 881-885	1	2
32	A double-bent planar leaf flexure guide for a nano-scanner: Experimental report. *Journal of the Korean Physical Society*, **2014**, 65, 1493-1495	0.6	2
31	Pure Nano-Rotation Scanner. *Advances in Mechanical Engineering*, **2012**, 4, 962439	1.2	2
30	A New Robust Design Method Using Neural Network. *Journal of Nanoelectronics and Optoelectronics*, **2016**, 11, 68-78	1.3	2
29	Analysis of Factors Influencing on Heat Transfer Characteristics of Automobile LED Headlamp. *International Journal of Control and Automation*, **2016**, 9, 263-272	1.9	2
28	Investigation on the Performance of Special Purpose Automotive Air-Conditioning System Using Dual Refrigeration Cycle. *Transactions of the Korean Society of Mechanical Engineers, B*, **2016**, 40, 213-220	0.5	2
27	Study on Cooling Performance Characteristics of Air Conditioning System Using R744 for a Passenger Vehicle. *Journal of the Korea Academia-Industrial Cooperation Society*, **2011**, 12, 5457-5463		2
26	Theoretical approach on the heating and cooling system design for an effective operation of Li-ion batteries for electric vehicles. *Journal of the Korea Academia-Industrial Cooperation Society*, **2014**, 15, 2545-2552		2
25	Experimental and Numerical Study on the Thermal Performances of Battery Cell and ECU for an E-Bike. *Lecture Notes in Electrical Engineering*, **2017**, 195-204	0.2	2
24	Electrochemical corrosion behavior and surface modification of ZrB2 in hydrofluoric acid aqueous solution. *International Journal of Applied Ceramic Technology*, **2017**, 14, 779-784	2	1
23	Two color Laser induced confocal fluorescent thermometry: Design and experiments. *International Journal of Precision Engineering and Manufacturing*, **2015**, 16, 567-571	1.7	1

22	Electrical Performance Comparison between Conventional Pi Shaped and Linear Shaped Thermoelectric Generators. *IOP Conference Series: Materials Science and Engineering*, **2020**, 894, 012001	0.4	1
21	Numerical Investigation on the Temperature Characteristics of the Voice Coil for a Woofer Using Thermal Equivalent Heat Conduction Models. *Entropy*, **2014**, 16, 4121-4131	2.8	1
20	A compact and fast nano-stylus profiling head for optical instruments. *Journal of Mechanical Science and Technology*, **2012**, 26, 2077-2080	1.6	1
19	Optimization of functional layers in piezoelectric thick film MEMS process **2011**,		1
18	Numerical Model on Frost Height of Round Plate Fin Used for Outdoor Heat Exchanger of Mobile Electric Heat Pumps. *Advances in Mechanical Engineering*, **2012**, 4, 863731	1.2	1
17	Numerical study on the thermal performance characteristics of the stack system for FCEV. *Journal of the Korea Academia-Industrial Cooperation Society*, **2015**, 16, 3708-3713		1
16	Experimental Investigation of Heat Transfer Characteristics of Battery Management System and Electronic Control Unit of Neighborhood Electric Vehicle. *Lecture Notes in Electrical Engineering*, **2017**, 205-211	0.2	1
15	Analysis and Suppression Plan for Structure and Flow induced Noise in a Small Refrigeration System. *Journal of the Korea Academia-Industrial Cooperation Society*, **2010**, 11, 4129-4136		1
14	Numerical Investigations on Magnetohydrodynamic Pump Based Microchannel Cooling System for Heat Dissipating Element. *Symmetry*, **2020**, 12, 1713	2.7	1
13	A Study on Performance Characteristics of a Heat Pump System with High-Pressure Side Chiller for Light-Duty Commercial Electric Vehicles. *Symmetry*, **2020**, 12, 1237	2.7	1
12	Numerical study on magneto-acoustic thermal characteristics of micro-speaker for mobile phones. *International Journal of Heat and Mass Transfer*, **2021**, 164, 120479	4.9	1
11	Experimental Study on Heating Performances of Integrated Battery and HVAC System with Serial and Parallel Circuits for Electric Vehicle. *Symmetry*, **2021**, 13, 93	2.7	1
10	Transient numerical investigation on cold plate based water cooling system for battery module with large lithium-ion pouch cells. *IOP Conference Series: Materials Science and Engineering*, **2018**, 455, 012050	0.4	1
9	Review on Performance Enhancement of Photovoltaic/Thermal□hermoelectric Generator Systems with Nanofluid Cooling. *Symmetry*, **2022**, 14, 36	2.7	1
8	Heat Flow Characteristics of Ferrofluid in Magnetic Field Patterns for Electric Vehicle Power Electronics Cooling. *Symmetry*, **2022**, 14, 1063	2.7	1
7	Energy Saving and Economic Evaluations of Exhaust Waste Heat Recovery Hot Water Supply System for Resort. *Symmetry*, **2021**, 13, 624	2.7	0
6	Nano-scanner for scanning probe microscopes. *Journal of the Korean Physical Society*, **2012**, 61, 1358-1364	0.6	46
5	Preparation and application of the 3C□iC substrate to piezoelectric micro cantilever transducers. *Applied Physics A: Materials Science and Processing*, **2012**, 108, 161-170	2.6	

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4	Experimental Study on Heat Transfer Characteristics of Thermosyphon Using Nanofluids. *Transactions of the Korean Society of Mechanical Engineers, B*, **2012**, 36, 1073-1079	0.5
3	Study on Performance Characteristics of Spiral Fin-Tube Evaporator Applied to Domestic Refrigerator-Freezers. *Transactions of the Korean Society of Mechanical Engineers, B*, **2013**, 37, 205-212	0.5
2	Numerical Study on Heat Transfer Characteristics of the 36V Electronic Control Unit System for an Electric Bicycle. *Energies*, **2018**, 11, 2506	3.1
1	Fuzzy Logic Energy Management for Photovoltaic System **2022**, 1-34	