

Moo-Yeon Lee

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

1,550
citations

279487

23
h-index

344852

36
g-index

97
all docs

97
docs citations

97
times ranked

1033
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy, exergy, environmental sustainability and economic analyses for automotive thermoelectric generator system with various configurations. <i>Energy</i> , 2022, 244, 122587.	4.5	20
2	Review on Performance Enhancement of Photovoltaic/Thermal-thermoelectric Generator Systems with Nanofluid Cooling. <i>Symmetry</i> , 2022, 14, 36.	1.1	12
3	Heat Flow Characteristics of Ferrofluid in Magnetic Field Patterns for Electric Vehicle Power Electronics Cooling. <i>Symmetry</i> , 2022, 14, 1063.	1.1	4
4	Thermodynamic, environmental and economic analyses of photovoltaic/thermal-thermoelectric generator system using single and hybrid particle nanofluids. <i>Energy</i> , 2022, 255, 124515.	4.5	34
5	Fuzzy Logic Energy Management for Photovoltaic System. , 2022, , 1-34.		0
6	Performance characteristics of the direct spray oil cooling system for a driving motor of an electric vehicle. <i>International Journal of Heat and Mass Transfer</i> , 2022, 196, 123228.	2.5	21
7	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.	2.0	31
8	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.	2.2	121
9	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.	3.0	29
10	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.	2.5	1
11	A novel dielectric fluid immersion cooling technology for Li-ion battery thermal management. <i>Energy Conversion and Management</i> , 2021, 229, 113715.	4.4	116
12	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.	2.2	60
13	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.	1.1	1
14	Energy Saving and Economic Evaluations of Exhaust Waste Heat Recovery Hot Water Supply System for Resort. <i>Symmetry</i> , 2021, 13, 624.	1.1	1
15	Numerical Investigations on Heat Transfer Characteristics of Single Particle and Hybrid Nanofluids in Uniformly Heated Tube. <i>Symmetry</i> , 2021, 13, 876.	1.1	26
16	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.	5.3	15
17	First and Second Law Thermodynamic Analyses of Hybrid Nanofluid with Different Particle Shapes in a Microplate Heat Exchanger. <i>Symmetry</i> , 2021, 13, 1466.	1.1	5
18	Numerical Investigations on Magnetohydrodynamic Pump Based Microchannel Cooling System for Heat Dissipating Element. <i>Symmetry</i> , 2020, 12, 1713.	1.1	6

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19	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.	1.1	2
20	Electrical Performance Comparison between Conventional Pi Shaped and Linear Shaped Thermoelectric Generators. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 894, 012001.	0.3	1
21	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.	2.5	134
22	Power Generation, Efficiency and Thermal Stress of Thermoelectric Module with Leg Geometry, Material, Segmentation and Two-Stage Arrangement. <i>Symmetry</i> , 2020, 12, 786.	1.1	32
23	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.	1.1	7
24	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.	1.1	37
25	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.	0.7	6
26	Numerical Study on Geometric Parameter effects of Power Generation Performances for Segmented Thermoelectric Generator. <i>International Journal of Air-Conditioning and Refrigeration</i> , 2018, 26, 1850004.	0.8	9
27	Numerical study on thermal performances of 2.0kW burner for the cabin heater of an electric passenger vehicle. <i>Applied Thermal Engineering</i> , 2018, 138, 819-831.	3.0	12
28	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.	2.5	39
29	Numerical Study on Heat Transfer Characteristics of the 36V Electronic Control Unit System for an Electric Bicycle. <i>Energies</i> , 2018, 11, 2506.	1.6	0
30	Macroscopic and Microscopic Spray Characteristics of Diesel and Gasoline in a Constant Volume Chamber. <i>Energies</i> , 2018, 11, 2056.	1.6	17
31	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.	0.3	1
32	Cooling Performance Characteristics of 20 Ah Lithium-Ion Pouch Cell with Cold Plates along Both Surfaces. <i>Energies</i> , 2018, 11, 2550.	1.6	41
33	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.	3.0	26
34	Growth of ZnO nanowires on multi-layered polymer structures fabricated by UV liquid transfer imprint lithography. <i>Microelectronic Engineering</i> , 2017, 176, 45-53.	1.1	4
35	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.	1.1	1
36	Heat transfer characteristics of the heat exchangers for refrigeration, air conditioning and heat pump systems under frosting, defrosting and dry/wet conditions—A review. <i>Applied Thermal Engineering</i> , 2017, 113, 1071-1087.	3.0	63

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37	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.	1.3	4
38	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.	0.3	1
39	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.	0.3	4
40	Review of the Thermo-Physical Properties and Performance Characteristics of a Refrigeration System Using Refrigerant-Based Nanofluids. Energies, 2016, 9, 22.	1.6	32
41	Cooling Performance Characteristics of the Stack Thermal Management System for Fuel Cell Electric Vehicles under Actual Driving Conditions. Energies, 2016, 9, 320.	1.6	12
42	Review on Synthesis, Thermo-Physical Property, and Heat Transfer Mechanism of Nanofluids. Energies, 2016, 9, 840.	1.6	44
43	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.	1.8	37
44	A New Robust Design Method Using Neural Network. Journal of Nanoelectronics and Optoelectronics, 2016, 11, 68-78.	0.1	2
45	A Novel Design for Lithium ion Battery Cooling using Mineral Oil. , 2016, , .		10
46	Analysis of Factors Influencing on Heat Transfer Characteristics of Automobile LED Headlamp. International Journal of Control and Automation, 2016, 9, 263-272.	0.3	2
47	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.	0.0	2
48	Multi-Directional Subpixel Rendering Technique for Ultrasound Imaging Display. Journal of Nanoelectronics and Optoelectronics, 2016, 11, 79-86.	0.1	0
49	Evaluation of the Effect of Operating Parameters on Thermal Performance of an Integrated Starter Generator in Hybrid Electric Vehicles. Energies, 2015, 8, 8990-9008.	1.6	7
50	Compliance Matrix of a Single-Bent Leaf Flexure for a Modal Analysis. Shock and Vibration, 2015, 2015, 1-10.	0.3	6
51	New electro-magnetic actuator for active vibration isolators. International Journal of Precision Engineering and Manufacturing, 2015, 16, 209-212.	1.1	7
52	Thermophysical Characteristics of the Ferrofluid in a Vertical Rectangle. Entropy, 2015, 17, 903-913.	1.1	5
53	Two color Laser induced confocal fluorescent thermometry: Design and experiments. International Journal of Precision Engineering and Manufacturing, 2015, 16, 567-571.	1.1	2
54	Displacement analysis of a Single-Bent leaf flexure under transverse load. International Journal of Precision Engineering and Manufacturing, 2015, 16, 749-754.	1.1	5

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55	Color Distortion-Aware Error Control for Backlight Dimming. Journal of Display Technology, 2015, 11, 79-85.	1.3	10
56	Torsional analysis of a single-bent leaf flexure. Structural Engineering and Mechanics, 2015, 54, 189-198.	1.0	3
57	Experimental Study on the Performance Characteristics of an Air-Cooled LED Cooling System for Headlamp of a Passenger Vehicle. , 2015, , .		2
58	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.	0.0	1
59	A double-bent planar leaf flexure guide for a nano-scanner: Experimental report. Journal of the Korean Physical Society, 2014, 65, 1493-1495.	0.3	2
60	Numerical Investigation on the Temperature Characteristics of the Voice Coil for a Woofer Using Thermal Equivalent Heat Conduction Models. Entropy, 2014, 16, 4121-4131.	1.1	1
61	Performance Evaluation of an In-Wheel Motor Cooling System in an Electric Vehicle/Hybrid Electric Vehicle. Energies, 2014, 7, 961-971.	1.6	29
62	Heat Transfer Characteristics of a Speaker Using Nano-Sized Ferrofluid. Entropy, 2014, 16, 5891-5900.	1.1	8
63	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.	1.1	5
64	Least material optimization of natural-convective heat sinks. International Journal of Precision Engineering and Manufacturing, 2014, 15, 1389-1395.	1.1	9
65	Ferrite multiphase/carbon nanotube composites sintered by spark plasma sintering. Journal of the Ceramic Society of Japan, 2014, 122, 768-771.	0.5	4
66	Ferrite multiphase/carbon nanotube composites sintered by microwave sintering and spark plasma sintering. Journal of the Ceramic Society of Japan, 2014, 122, 881-885.	0.5	3
67	Transition in micro/nano-scale mechanical properties of ZrO ₂ /multi-wall carbon nanotube composites. Journal of the Ceramic Society of Japan, 2014, 122, 1028-1031.	0.5	6
68	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.	0.0	5
69	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.	2.5	20
70	Performance characteristics of mobile heat pump for a large passenger electric vehicle. Applied Thermal Engineering, 2013, 50, 660-669.	3.0	58
71	REVIEW OF CONVENTIONAL AIR CONDITIONING SYSTEM FOR INTERNAL COMBUSTION ENGINES. International Journal of Air-Conditioning and Refrigeration, 2013, 21, 1330001.	0.8	4
72	Numerical Investigation on Heat and Flow Characteristics of Temperature-Sensitive Ferrofluid in a Square Cavity. Advances in Mechanical Engineering, 2013, 5, 240438.	0.8	6

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73	Review on Conventional Air Conditioning, Alternative Refrigerants, and CO2 Heat Pumps for Vehicles. <i>Advances in Mechanical Engineering</i> , 2013, 5, 713924.	0.8	13
74	Cooling Performance Characteristics on Mobile Air-Conditioning System for Hybrid Electric Vehicles. <i>Advances in Mechanical Engineering</i> , 2013, 5, 282313.	0.8	10
75	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.	0.0	3
76	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.	0.0	6
77	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.	0.0	3
78	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.	0.0	0
79	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.	1.6	25
80	Experimental Study on Frost Height of Round Plate Fin-Tube Heat Exchangers for Mobile Heat Pumps. <i>Energies</i> , 2012, 5, 3479-3491.	1.6	14
81	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.	1.6	49
82	The FEM based liquid transfer model in gravure offset printing using phase field method. <i>Microsystem Technologies</i> , 2012, 18, 2027-2034.	1.2	8
83	Nano-scanner for scanning probe microscopes. <i>Journal of the Korean Physical Society</i> , 2012, 61, 1358-1364.	0.3	0
84	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.	0.7	27
85	A compact and fast nano-stylus profiling head for optical instruments. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 2077-2080.	0.7	2
86	Preparation and application of the 3C-SiC substrate to piezoelectric micro cantilever transducers. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 108, 161-170.	1.1	0
87	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.	0.8	1
88	Pure Nano-Rotation Scanner. <i>Advances in Mechanical Engineering</i> , 2012, 4, 962439.	0.8	5
89	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.	0.0	0
90	Optimization of functional layers in piezoelectric thick film MEMS process. , 2011, , .		1

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91	Heat transfer characteristics of spirally-coiled circular fin-tube heat exchangers operating under frosting conditions. International Journal of Refrigeration, 2011, 34, 328-336.	1.8	18
92	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.	0.0	5
93	Effects of cross-sectional change on the isotachphoresis process for protein-separation chip design. Microsystem Technologies, 2010, 16, 1931-1938.	1.2	6
94	A Double-bent Planar Leaf Flexure Guide for a Nano-scanner. Journal of the Korean Physical Society, 2010, 57, 1581-1588.	0.3	4
95	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.	0.0	2
96	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.	1.1	4
97	Performance characteristics of a small-capacity directly cooled refrigerator using R290/R600a (55/45). International Journal of Refrigeration, 2008, 31, 734-741.	1.8	51