

Moo-Yeon Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1848295/publications.pdf>

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	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
2	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
3	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
4	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
5	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
6	Performance characteristics of mobile heat pump for a large passenger electric vehicle. <i>Applied Thermal Engineering</i> , 2013, 50, 660-669.	3.0	58
7	Performance characteristics of a small-capacity directly cooled refrigerator using R290/R600a (55/45). <i>International Journal of Refrigeration</i> , 2008, 31, 734-741.	1.8	51
8	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
9	Review on Synthesis, Thermo-Physical Property, and Heat Transfer Mechanism of Nanofluids. <i>Energies</i> , 2016, 9, 840.	1.6	44
10	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
11	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
12	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.	1.8	37
13	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
14	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
15	Review of the Thermo-Physical Properties and Performance Characteristics of a Refrigeration System Using Refrigerant-Based Nanofluids. <i>Energies</i> , 2016, 9, 22.	1.6	32
16	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
17	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
18	Performance Evaluation of an In-Wheel Motor Cooling System in an Electric Vehicle/Hybrid Electric Vehicle. <i>Energies</i> , 2014, 7, 961-971.	1.6	29

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	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
24	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
25	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.	2.5	20
26	Energy, exergy, environmental sustainability and economic analyses for automotive thermoelectric generator system with various configurations. <i>Energy</i> , 2022, 244, 122587.	4.5	20
27	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.	1.8	18
28	Macroscopic and Microscopic Spray Characteristics of Diesel and Gasoline in a Constant Volume Chamber. <i>Energies</i> , 2018, 11, 2056.	1.6	17
29	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
30	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
31	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
32	Cooling Performance Characteristics of the Stack Thermal Management System for Fuel Cell Electric Vehicles under Actual Driving Conditions. <i>Energies</i> , 2016, 9, 320.	1.6	12
33	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
34	Review on Performance Enhancement of Photovoltaic/Thermal-thermoelectric Generator Systems with Nanofluid Cooling. <i>Symmetry</i> , 2022, 14, 36.	1.1	12
35	Color Distortion-Aware Error Control for Backlight Dimming. <i>Journal of Display Technology</i> , 2015, 11, 79-85.	1.3	10
36	Cooling Performance Characteristics on Mobile Air-Conditioning System for Hybrid Electric Vehicles. <i>Advances in Mechanical Engineering</i> , 2013, 5, 282313.	0.8	10

#	ARTICLE	IF	CITATIONS
37	A Novel Design for Lithium ion Battery Cooling using Mineral Oil. , 2016, , .		10
38	Least material optimization of natural-convective heat sinks. International Journal of Precision Engineering and Manufacturing, 2014, 15, 1389-1395.	1.1	9
39	Numerical Study on Geometric Parameter effects of Power Generation Performances for Segmented Thermoelectric Generator. International Journal of Air-Conditioning and Refrigeration, 2018, 26, 1850004.	0.8	9
40	The FEM based liquid transfer model in gravure offset printing using phase field method. Microsystem Technologies, 2012, 18, 2027-2034.	1.2	8
41	Heat Transfer Characteristics of a Speaker Using Nano-Sized Ferrofluid. Entropy, 2014, 16, 5891-5900.	1.1	8
42	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
43	New electro-magnetic actuator for active vibration isolators. International Journal of Precision Engineering and Manufacturing, 2015, 16, 209-212.	1.1	7
44	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.	1.1	7
45	Effects of cross-sectional change on the isotachphoresis process for protein-separation chip design. Microsystem Technologies, 2010, 16, 1931-1938.	1.2	6
46	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
47	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
48	Compliance Matrix of a Single-Bent Leaf Flexure for a Modal Analysis. Shock and Vibration, 2015, 2015, 1-10.	0.3	6
49	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.	0.7	6
50	Numerical Investigations on Magnetohydrodynamic Pump Based Microchannel Cooling System for Heat Dissipating Element. Symmetry, 2020, 12, 1713.	1.1	6
51	Numerical Analysis on Temperature Characteristics of the Voice-Coil for Woofer Speaker Using Ferrofluid. Journal of the Korean Magnetics Society, 2013, 23, 166-172.	0.0	6
52	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
53	Thermophysical Characteristics of the Ferrofluid in a Vertical Rectangle. Entropy, 2015, 17, 903-913.	1.1	5
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

#	ARTICLE	IF	CITATIONS
55	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
56	Pure Nano-Rotation Scanner. <i>Advances in Mechanical Engineering</i> , 2012, 4, 962439.	0.8	5
57	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.	0.0	5
58	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.	0.0	5
59	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.	1.1	4
60	REVIEW OF CONVENTIONAL AIR CONDITIONING SYSTEM FOR INTERNAL COMBUSTION ENGINES. <i>International Journal of Air-Conditioning and Refrigeration</i> , 2013, 21, 1330001.	0.8	4
61	Ferrite multiphase/carbon nanotube composites sintered by spark plasma sintering. <i>Journal of the Ceramic Society of Japan</i> , 2014, 122, 768-771.	0.5	4
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.	1.1	4
63	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.	1.3	4
64	A Double-bent Planar Leaf Flexure Guide for a Nano-scanner. <i>Journal of the Korean Physical Society</i> , 2010, 57, 1581-1588.	0.3	4
65	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.	0.3	4
66	Heat Flow Characteristics of Ferrofluid in Magnetic Field Patterns for Electric Vehicle Power Electronics Cooling. <i>Symmetry</i> , 2022, 14, 1063.	1.1	4
67	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.	0.5	3
68	Torsional analysis of a single-bent leaf flexure. <i>Structural Engineering and Mechanics</i> , 2015, 54, 189-198.	1.0	3
69	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
70	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
71	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
72	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.	0.3	2

#	ARTICLE	IF	CITATIONS
73	Two color Laser induced confocal fluorescent thermometry: Design and experiments. International Journal of Precision Engineering and Manufacturing, 2015, 16, 567-571.	1.1	2
74	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.	1.1	2
75	A New Robust Design Method Using Neural Network. Journal of Nanoelectronics and Optoelectronics, 2016, 11, 68-78.	0.1	2
76	Experimental Study on the Performance Characteristics of an Air-Cooled LED Cooling System for Headlamp of a Passenger Vehicle. , 2015, , .		2
77	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
78	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
79	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
80	Optimization of functional layers in piezoelectric thick film MEMS process. , 2011, , .		1
81	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
82	Electrochemical corrosion behavior and surface modification of ZrB ₂ in hydrofluoric acid aqueous solution. International Journal of Applied Ceramic Technology, 2017, 14, 779-784.	1.1	1
83	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.	0.3	1
84	Electrical Performance Comparison between Conventional Pi Shaped and Linear Shaped Thermoelectric Generators. IOP Conference Series: Materials Science and Engineering, 2020, 894, 012001.	0.3	1
85	Numerical study on magneto-acoustic thermal characteristics of micro-speaker for mobile phones. International Journal of Heat and Mass Transfer, 2021, 164, 120479.	2.5	1
86	Experimental Study on Heating Performances of Integrated Battery and HVAC System with Serial and Parallel Circuits for Electric Vehicle. Symmetry, 2021, 13, 93.	1.1	1
87	Energy Saving and Economic Evaluations of Exhaust Waste Heat Recovery Hot Water Supply System for Resort. Symmetry, 2021, 13, 624.	1.1	1
88	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
89	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.	0.8	1
90	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

#	ARTICLE	IF	CITATIONS
91	Nano-scanner for scanning probe microscopes. Journal of the Korean Physical Society, 2012, 61, 1358-1364.	0.3	0
92	Preparation and application of the 3C-SiC substrate to piezoelectric micro cantilever transducers. Applied Physics A: Materials Science and Processing, 2012, 108, 161-170.	1.1	0
93	Numerical Study on Heat Transfer Characteristics of the 36V Electronic Control Unit System for an Electric Bicycle. Energies, 2018, 11, 2506.	1.6	0
94	Experimental Study on Heat Transfer Characteristics of Thermosyphon Using Nanofluids. Transactions of the Korean Society of Mechanical Engineers, B, 2012, 36, 1073-1079.	0.0	0
95	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.	0.0	0
96	Multi-Directional Subpixel Rendering Technique for Ultrasound Imaging Display. Journal of Nanoelectronics and Optoelectronics, 2016, 11, 79-86.	0.1	0
97	Fuzzy Logic Energy Management for Photovoltaic System. , 2022, , 1-34.		0