

# Wei-Mon Yan

## List of Publications by Year in descending order

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125  
papers

4,033  
citations

101384

36  
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149479

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129  
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129  
docs citations

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times ranked

2901  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effectively inhibiting particles aggregation and sedimentation for TiO <sub>2</sub> -H <sub>2</sub> O suspension by application of an electrode. Journal of Dispersion Science and Technology, 2023, 44, 679-685.	1.3	2
2	Effects of fluorinated ethylene propylene contents in a novel gas diffusion layer on cell performance of a proton exchange membrane fuel cell. International Journal of Energy Research, 2022, 46, 1553-1564.	2.2	5
3	Efficacy of turbulent convective heat transfer in a circular tube with water-based nanoemulsion of n-Eicosane. An experimental study. International Journal of Heat and Mass Transfer, 2022, 183, 122062.	2.5	7
4	On the Assessment of Unsteady Evaporation Heat Transfer due to Oscillating Flow Rate in a Narrow Annular Duct. International Journal of Heat and Mass Transfer, 2022, 184, 122356.	2.5	4
5	Performance assessment of a flat-sheet membrane-based dehumidifier with serpentine flow channels: An experimental study. Energy Conversion and Management, 2022, 258, 115492.	4.4	5
6	Tracking the diversity and interaction of methanogens in the energy recovery process of a full-scale wastewater treatment plant. Environmental Research, 2022, 211, 113010.	3.7	2
7	Solvothermal synthesis of two-dimensional graphitic carbon nitride/tungsten oxide nanocomposite: a robust electrochemical scaffold for selective determination of dopamine and uric acid. Journal of Applied Electrochemistry, 2022, 52, 1231-1248.	1.5	7
8	Experimental study on performance measurement of planar vacuum membrane dehumidifier with serpentine flow channel designs. AEJ - Alexandria Engineering Journal, 2022, 61, 10701-10711.	3.4	2
9	Laser-scribed Graphene Electrodes Functionalized with Nafion/Fe <sub>3</sub> O <sub>4</sub> Nanohybrids for the Ultrasensitive Detection of Neurotoxin Drug Cloquinol. ACS Omega, 2022, 7, 15936-15950.	1.6	14
10	A fluid dynamics perspective on the flow dependent performance of honey comb microbial fuel cells. Energy, 2021, 214, 118928.	4.5	9
11	Effects of operating parameters and load mode on dynamic cell performance of proton exchange membrane fuel cell. International Journal of Energy Research, 2021, 45, 2474-2487.	2.2	10
12	Convective heat transfer of nano-encapsulated phase change material suspension in a divergent minichannel heatsink. International Journal of Heat and Mass Transfer, 2021, 165, 120717.	2.5	43
13	Experimental study on thermophysical properties of water-based nanoemulsion of n-eicosane PCM. Journal of Molecular Liquids, 2021, 321, 114760.	2.3	29
14	Experimental study on two consecutive droplets impacting onto an inclined solid surface. Journal of Mechanics, 2021, 37, 432-445.	0.7	1
15	Thermophysical properties of water-based nano-emulsion of tricosane - An Experimental investigation. Case Studies in Thermal Engineering, 2021, 24, 100849.	2.8	11
16	A novel geometrical design of gas-to-gas planar membrane humidifier for proton electrolyte membrane fuel cells. International Journal of Energy Research, 2021, 45, 16228-16241.	2.2	5
17	High performance zinc-air fuel cell with zinc particle fuel and flowing electrolyte. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2021, 44, 842-850.	0.6	5
18	An investigation on the thermal energy storage in an enclosure packed with micro-encapsulated phase change material. Case Studies in Thermal Engineering, 2021, 25, 100987.	2.8	10

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19	Numerical analysis on heat and mass transfer of the planar membrane dehumidifier. Numerical Heat Transfer; Part A: Applications, 2021, 80, 92-110.	1.2	4
20	Three-dimensional analysis of entropy generation for forced convection over an inclined step with presence of solid nanoparticles and magnetic force. Numerical Heat Transfer; Part A: Applications, 2021, 80, 318-335.	1.2	18
21	Unsteady phenomena in saturated flow boiling heat transfer – An experimental study on oscillating refrigerant mass flux. AEJ - Alexandria Engineering Journal, 2021, , .	3.4	2
22	The onset of natural convection in a horizontal nanofluid layer heated from below. Heat Transfer, 2021, 50, 7764-7783.	1.7	3
23	Experimental study on influence of oscillatory heat flux on heat transfer of R-134a time-periodic subcooled flow boiling in annular duct. International Journal of Thermal Sciences, 2021, 167, 106988.	2.6	6
24	Performance improvement of air-breathing proton exchange membrane fuel cell stacks by thermal management. International Journal of Hydrogen Energy, 2020, 45, 22324-22339.	3.8	28
25	Experimental study on thermal performance of water-based nano-PCM emulsion flow in multichannel heat sinks with parallel and divergent rectangular mini-channels. International Journal of Heat and Mass Transfer, 2020, 146, 118861.	2.5	23
26	Thermal performance of various cross-sectioned rectangular minichannels with water-based phase change nano-suspensions. International Journal of Energy Research, 2020, 44, 344-359.	2.2	1
27	Experimental study on heat and mass transfer of a multi-stage planar dehumidifier. International Journal of Heat and Mass Transfer, 2020, 148, 119104.	2.5	9
28	Optimization of a double-layered microchannel heat sink with semi-porous-ribs by multi-objective genetic algorithm. International Journal of Heat and Mass Transfer, 2020, 149, 119217.	2.5	81
29	Experimental and numerical study on convective boiling in a staggered array of micro pin-fin microgap. International Journal of Heat and Mass Transfer, 2020, 149, 119203.	2.5	33
30	Thermal performance of phase change nano-emulsion in a rectangular minichannel with wall conduction effect. International Communications in Heat and Mass Transfer, 2020, 110, 104438.	2.9	7
31	Water-based nano-PCM emulsion flow and heat transfer in divergent mini-channel heat sink – An experimental investigation. International Journal of Heat and Mass Transfer, 2020, 148, 119086.	2.5	19
32	Electrochemical polarization analysis for optimization of external operation parameters in zinc fuel cells. RSC Advances, 2020, 10, 28807-28818.	1.7	4
33	Experimental study on two water drops successively impinging on a solid surface. AIP Advances, 2020, 10, .	0.6	5
34	Protection efficiencies of surface-active inhibitors in zinc-air batteries. International Journal of Energy Research, 2020, 44, 11883-11893.	2.2	10
35	Forced convection heat transfer of Nano-Encapsulated Phase Change Material (NEPCM) suspension in a mini-channel heatsink. International Journal of Heat and Mass Transfer, 2020, 155, 119858.	2.5	130
36	Experimental study on bubble characteristics of time periodic subcooled flow boiling in annular ducts due to wall heat flux oscillation. International Journal of Heat and Mass Transfer, 2020, 157, 119974.	2.5	35

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37	Numerical study on forced convection of water-based suspensions of nanoencapsulated PCM particles/Al <sub>2</sub> O <sub>3</sub> nanoparticles in a mini-channel heat sink. International Journal of Heat and Mass Transfer, 2020, 157, 119965.	2.5	37
38	Review on design factors of microbial fuel cells using Buckingham's Pi Theorem. Renewable and Sustainable Energy Reviews, 2020, 130, 109878.	8.2	23
39	Enhancement of air-flow management in Zn-air fuel cells by the optimization of air-flow parameters. Energy, 2020, 197, 117181.	4.5	11
40	Numerical study on convective heat transfer of nanofluid in a minichannel heat sink with micro-encapsulated PCM-cooled ceiling. International Journal of Heat and Mass Transfer, 2020, 153, 119589.	2.5	38
41	Study on heat and mass transfer of a planar membrane humidifier for PEM fuel cell. International Journal of Heat and Mass Transfer, 2020, 152, 119538.	2.5	21
42	Discharge performance of Zn-air fuel cells under the influence of Carbopol 940 thickener. International Journal of Energy Research, 2020, 44, 4543-4555.	2.2	9
43	Properties and Phase Behavior of Water-in-Diesel Microemulsion Fuels Stabilized by Nonionic Surfactants in Combination with Aliphatic Alcohol. Energy & Fuels, 2020, 34, 2135-2142.	2.5	21
44	Optimization of the zinc oxide reduction in the charging process of zinc-air flow batteries. International Journal of Energy Research, 2020, 44, 8399-8412.	2.2	10
45	Experimental study on transient supercooling of two-stage thermoelectric cooler. Case Studies in Thermal Engineering, 2019, 14, 100509.	2.8	17
46	Experimental study of boiling heat transfer in a microchannel with nucleated-shape columnar micro-pin-fins. International Communications in Heat and Mass Transfer, 2019, 108, 104277.	2.9	30
47	Innovative multi-processed N-doped carbon and Fe <sub>3</sub> O <sub>4</sub> cathode for enhanced bioelectro-Fenton microbial fuel cell performance. International Journal of Energy Research, 2019, 43, 7594.	2.2	7
48	Highly heterogeneous interior structure of biofilm wastewater for enhanced pollutant removals. Bioresource Technology, 2019, 291, 121919.	4.8	12
49	Optimization of pulse current on energy storage of zinc-air flow batteries. Journal of Power Sources, 2019, 442, 227253.	4.0	15
50	Molecular dynamics simulation on evaporation enhancement of water and aqueous nano-films by the application of alternating electric field. International Journal of Heat and Mass Transfer, 2019, 145, 118735.	2.5	12
51	Physical properties measurement and performance analysis of membranes for a multi-stage planar membrane dehumidifier. Case Studies in Thermal Engineering, 2019, 15, 100516.	2.8	8
52	Acceleration of aqueous nano-film evaporation by applying parallel electric field: A molecular dynamics simulation. International Journal of Heat and Mass Transfer, 2019, 138, 68-74.	2.5	20
53	Improved performance of a Zn-air fuel cell by coupling Zn particle fuel and flowing electrolyte. Chemical Physics Letters, 2019, 728, 160-166.	1.2	17
54	Optimization of the Electrolyte Parameters and Components in Zinc Particle Fuel Cells. Energies, 2019, 12, 1090.	1.6	19

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55	Experimental study on convective boiling of micro-pin-finned channels with parallel arrangement fins for FC-72 dielectric fluid. <i>International Journal of Heat and Mass Transfer</i> , 2019, 138, 390-400.	2.5	23
56	Experimental study of cooling characteristics of water-based alumina nanofluid in a minichannel heat sink. <i>Case Studies in Thermal Engineering</i> , 2019, 14, 100418.	2.8	30
57	Electromagnetic field analysis and cooling system design for high power switched reluctance motor. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 1756-1785.	1.6	8
58	Physical properties measurement and performance comparison of membranes for planar membrane humidifiers. <i>International Journal of Heat and Mass Transfer</i> , 2019, 136, 393-403.	2.5	26
59	Experimental study of cooling performance of water-based alumina nanofluid in a minichannel heat sink with MEPCM layer embedded in its ceiling. <i>International Communications in Heat and Mass Transfer</i> , 2019, 103, 1-6.	2.9	39
60	Dynamics of droplets impacting hydrophilic surfaces decorated with a hydrophobic strip. <i>International Journal of Heat and Mass Transfer</i> , 2019, 135, 235-246.	2.5	24
61	Effects of Nanoparticle Enhanced Lubricant Films in Thermal Design of Plain Journal Bearings at High Reynolds Numbers. <i>Symmetry</i> , 2019, 11, 1353.	1.1	25
62	Sensitivity analysis and application of machine learning methods to predict the heat transfer performance of CNT/water nanofluid flows through coils. <i>International Journal of Heat and Mass Transfer</i> , 2019, 128, 825-835.	2.5	141
63	Reduction in the contact time of impacting droplets by decorating a rectangular ridge on superhydrophobic surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2019, 132, 1105-1115.	2.5	62
64	Transient cooling characteristics of Al <sub>2</sub> O <sub>3</sub> -water nanofluid flow in a microchannel subject to a sudden-pulsed heat flux. <i>International Journal of Mechanical Sciences</i> , 2019, 151, 95-105.	3.6	20
65	Bubble dynamics in evaporation flow of R-134a in narrow annular ducts due to flow rate oscillation. <i>International Communications in Heat and Mass Transfer</i> , 2019, 100, 27-34.	2.9	10
66	Experimental study of transient thermal characteristics of nanofluid in a minichannel heat sink with MEPCM layer in its ceiling. <i>International Journal of Heat and Mass Transfer</i> , 2019, 133, 1041-1051.	2.5	19
67	Experimental study on fluid flow and heat transfer characteristics of falling film over tube bundle. <i>International Journal of Heat and Mass Transfer</i> , 2019, 130, 9-24.	2.5	39
68	Application of interface material and effects of oxygen gradient on the performance of single-chamber sediment microbial fuel cells (SSMFCs). <i>Journal of Environmental Sciences</i> , 2019, 75, 163-168.	3.2	15
69	Contribution of hybrid Al <sub>2</sub> O <sub>3</sub> -water nanofluid and PCM suspension to augment thermal performance of coolant in a minichannel heat sink. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 651-659.	2.5	48
70	Novel bufferless photosynthetic microbial fuel cell (PMFCs) for enhanced electrochemical performance. <i>Bioresource Technology</i> , 2018, 255, 83-87.	4.8	45
71	Thermal and hydrodynamic characteristics of divergent rectangular minichannel heat sinks. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 264-274.	2.5	39
72	Microencapsulated n-eicosane PCM suspensions: Thermophysical properties measurement and modeling. <i>International Journal of Heat and Mass Transfer</i> , 2018, 125, 792-800.	2.5	40

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73	Comparative study on thermal performance of MEPCM suspensions in parallel and divergent minichannel heat sinks. <i>International Communications in Heat and Mass Transfer</i> , 2018, 94, 96-105.	2.9	19
74	Assessment of recirculation batch mode operation in bufferless Bio-cathode microbial Fuel Cells (MFCs). <i>Applied Energy</i> , 2018, 209, 120-126.	5.1	39
75	A combined numerical and experimental study on the forced convection of Al <sub>2</sub> O <sub>3</sub> -water nanofluid in a circular tube. <i>International Journal of Heat and Mass Transfer</i> , 2018, 120, 66-75.	2.5	33
76	Time periodic evaporation heat transfer of R-134a in a narrow annular duct due to mass flow rate oscillation. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 154-164.	2.5	10
77	Cooling performance of Al <sub>2</sub> O <sub>3</sub> -water nanofluid flow in a minichannel with thermal buoyancy and wall conduction effects. <i>Case Studies in Thermal Engineering</i> , 2018, 12, 833-842.	2.8	8
78	Treatment of Oily Wastewater by the Optimization of Fe <sub>2</sub> O <sub>3</sub> Calcination Temperatures in Innovative Bio-Electron-Fenton Microbial Fuel Cells. <i>Energies</i> , 2018, 11, 565.	1.6	11
79	Performance evaluation of a multi-stage plate-type membrane humidifier for proton exchange membrane fuel cell. <i>Energy Conversion and Management</i> , 2018, 176, 123-130.	4.4	24
80	Efficacy of divergent minichannels on cooling performance of heat sinks with water-based MEPCM suspensions. <i>International Journal of Thermal Sciences</i> , 2018, 130, 333-346.	2.6	46
81	Molecular dynamics investigation on enhancement of heat transfer between electrified solid surface and liquid water. <i>International Journal of Heat and Mass Transfer</i> , 2018, 125, 756-760.	2.5	22
82	The application of artificial neural networks to predict the performance of solar chimney filled with phase change materials. <i>Energy Conversion and Management</i> , 2018, 171, 1255-1262.	4.4	44
83	Asymmetric heat transfer characteristics of a double droplet impact on a moving liquid film. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 649-659.	2.5	33
84	Measurement and Artificial Neural Network Modeling of Electrical Conductivity of CuO/Glycerol Nanofluids at Various Thermal and Concentration Conditions. <i>Energies</i> , 2018, 11, 1190.	1.6	22
85	Numerical simulation of PV cooling by using single turn pulsating heat pipe. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 203-208.	2.5	127
86	Thermo-economic Evaluation of Producing Liquefied Natural Gas and Natural Gas Liquids from Flare Gases. <i>Energies</i> , 2018, 11, 1868.	1.6	16
87	Enhancement of boiling heat transfer of thin water film on an electrified solid surface. <i>International Journal of Heat and Mass Transfer</i> , 2017, 109, 410-416.	2.5	38
88	Two-phase mixture model for nanofluid turbulent flow and heat transfer: Effect of heterogeneous distribution of nanoparticles. <i>Chemical Engineering Science</i> , 2017, 167, 135-144.	1.9	76
89	A new scheme for reducing pressure drop and thermal resistance simultaneously in microchannel heat sinks with wavy porous fins. <i>International Journal of Heat and Mass Transfer</i> , 2017, 111, 1071-1078.	2.5	108
90	Investigation of heat transfer enhancement by electrohydrodynamics in a double-wall-heated channel. <i>International Journal of Heat and Mass Transfer</i> , 2017, 113, 373-383.	2.5	50

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91	An experimental study of forced convection effectiveness of Al <sub>2</sub> O <sub>3</sub> -water nanofluid flowing in circular tubes. <i>International Communications in Heat and Mass Transfer</i> , 2017, 83, 23-29.	2.9	18
92	Transient thermal energy storage in partitioned enclosures packed with microencapsulated phase change materials. <i>International Communications in Heat and Mass Transfer</i> , 2017, 86, 253-261.	2.9	5
93	Exposing effect of comb-type cathode electrode on the performance of sediment microbial fuel cells. <i>Applied Energy</i> , 2017, 204, 620-625.	5.1	38
94	Cooling performance of MEPCM suspensions for heat dissipation intensification in a minichannel heat sink. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 43-49.	2.5	45
95	Thermal performance analysis of a 30 kW switched reluctance motor. <i>International Journal of Heat and Mass Transfer</i> , 2017, 114, 145-154.	2.5	33
96	Enhanced Peltier cooling of two-stage thermoelectric cooler via pulse currents. <i>International Journal of Heat and Mass Transfer</i> , 2017, 114, 656-663.	2.5	49
97	Experimental study on time periodic evaporation heat transfer of R-134a in annular ducts due to wall heat flux oscillation. <i>International Journal of Heat and Mass Transfer</i> , 2017, 106, 1232-1241.	2.5	6
98	Time periodic saturated flow boiling heat transfer of R-134a in a narrow annular duct due to heat flux oscillation. <i>International Journal of Heat and Mass Transfer</i> , 2017, 106, 35-46.	2.5	12
99	Enhancement of maximum temperature drop across thermoelectric cooler through two-stage design and transient supercooling effect. <i>Applied Energy</i> , 2016, 175, 285-292.	5.1	56
100	Laminar forced convection effectiveness of Al <sub>2</sub> O <sub>3</sub> -water nanofluid flow in a circular tube at various operation temperatures: Effects of temperature-dependent properties. <i>International Journal of Heat and Mass Transfer</i> , 2016, 100, 464-481.	2.5	15
101	Using artificial neural network to predict thermal conductivity of ethylene glycol with alumina nanoparticle. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 126, 643-648.	2.0	103
102	Bubble characteristics in time periodic saturated flow boiling of R-134a in a narrow annular pipe due to heat flux oscillation. <i>International Journal of Heat and Mass Transfer</i> , 2016, 102, 1150-1158.	2.5	15
103	Bubble characteristics in time periodic evaporation flow of R-134a in a narrow annular pipe due to heat flux oscillation. <i>International Communications in Heat and Mass Transfer</i> , 2016, 79, 9-15.	2.9	2
104	Experimental and numerical study on transient thermal energy storage of microencapsulated phase change material particles in an enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2016, 94, 191-198.	2.5	14
105	Electro-coalescence of two charged droplets under constant and pulsed DC electric fields. <i>International Journal of Heat and Mass Transfer</i> , 2016, 98, 10-16.	2.5	42
106	Heat transfer enhancement of microchannel heat sink using transcritical carbon dioxide as the coolant. <i>Energy Conversion and Management</i> , 2016, 110, 154-164.	4.4	36
107	Study on thermal conductivity of water-based nanofluids with hybrid suspensions of CNTs/Al <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 124, 455-460.	2.0	153
108	Natural convection in a trapezoidal enclosure filled with carbon nanotube-water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2016, 92, 76-82.	2.5	123

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109	A Comprehensive Review on Measurement and Correlation Development of Capillary Pressure for Two-Phase Modeling of Proton Exchange Membrane Fuel Cells. <i>Journal of Chemistry</i> , 2015, 2015, 1-17.	0.9	14
110	Dynamic cell performance of kW-grade proton exchange membrane fuel cell stack with dead-ended anode. <i>Applied Energy</i> , 2015, 142, 108-114.	5.1	65
111	Molecular Dynamics Simulations on Coalescence and Non-coalescence of Conducting Droplets. <i>Langmuir</i> , 2015, 31, 7457-7462.	1.6	79
112	A comprehensive review of last experimental studies on thermal conductivity of nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 122, 863-884.	2.0	90
113	Melting processes of phase change materials in an enclosure with a free-moving ceiling: An experimental and numerical study. <i>International Journal of Heat and Mass Transfer</i> , 2015, 86, 780-786.	2.5	10
114	Experiment on thermal performance of water-based suspensions of Al <sub>2</sub> O <sub>3</sub> nanoparticles and MEPCM particles in a minichannel heat sink. <i>International Journal of Heat and Mass Transfer</i> , 2014, 69, 276-284.	2.5	63
115	Correlations of heat transfer effectiveness in a minichannel heat sink with water-based suspensions of Al <sub>2</sub> O <sub>3</sub> nanoparticles and/or MEPCM particles. <i>International Journal of Heat and Mass Transfer</i> , 2014, 69, 293-299.	2.5	84
116	Optimization of Design Parameters for a Sandwich-Distribution Porous-Microchannel Heat Sink. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 66, 229-251.	1.2	19
117	Thermal energy storage characteristics in an enclosure packed with MEPCM particles: An experimental and numerical study. <i>International Journal of Heat and Mass Transfer</i> , 2014, 73, 88-96.	2.5	31
118	Numerical investigation into transient response of proton exchange membrane fuel cell with serpentine flow field. <i>International Journal of Energy Research</i> , 2013, 37, 1302-1312.	2.2	4
119	Experimental study on cooling performance of minichannel heat sink using water-based MEPCM particles. <i>International Communications in Heat and Mass Transfer</i> , 2013, 48, 67-72.	2.9	46
120	Effects of operating parameters on transport phenomena and cell performance of PEM fuel cells with conventional and contracted flow field designs. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15808-15819.	3.8	10
121	Heat transfer enhancement in microchannel heat sinks using nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 2559-2570.	2.5	155
122	Enhancement of thermal performance in double-layered microchannel heat sink with nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 3225-3238.	2.5	103
123	Effect of humidity of reactants on the cell performance of PEM fuel cells with parallel and interdigitated flow field designs. <i>Journal of Power Sources</i> , 2008, 176, 247-258.	4.0	63
124	Three-dimensional numerical study on cell performance and transport phenomena of PEM fuel cells with conventional flow fields. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 156-164.	3.8	63
125	Humidity of reactant fuel on the cell performance of PEM fuel cell with baffle-blocked flow field designs. <i>Journal of Power Sources</i> , 2006, 159, 468-477.	4.0	65