

# Wei-Mon Yan

## List of Publications by Year in descending order

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101543

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129  
times ranked

2901  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Heat transfer enhancement in microchannel heat sinks using nanofluids. International Journal of Heat and Mass Transfer, 2012, 55, 2559-2570.  | 4.8  | 155       |
| 2  | Study on thermal conductivity of water-based nanofluids with hybrid suspensions of CNTs/Al <sub>2</sub> O <sub>3</sub> nanoparticles. Journal of Thermal Analysis and Calorimetry, 2016, 124, 455-460.  | 3.6  | 153       |
| 3  | Sensitivity analysis and application of machine learning methods to predict the heat transfer performance of CNT/water nanofluid flows through coils. International Journal of Heat and Mass Transfer, 2019, 128, 825-835.                      | 4.8  | 141       |
| 4  | 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.   | 4.8  | 130       |
| 5  | Numerical simulation of PV cooling by using single turn pulsating heat pipe. International Journal of Heat and Mass Transfer, 2018, 127, 203-208.   | 4.8  | 127       |
| 6  | Natural convection in a trapezoidal enclosure filled with carbon nanotube/water nanofluid. International Journal of Heat and Mass Transfer, 2016, 92, 76-82.  | 4.8  | 123       |
| 7  | A new scheme for reducing pressure drop and thermal resistance simultaneously in microchannel heat sinks with wavy porous fins. International Journal of Heat and Mass Transfer, 2017, 111, 1071-1078.  | 4.8  | 108       |
| 8  | Enhancement of thermal performance in double-layered microchannel heat sink with nanofluids. International Journal of Heat and Mass Transfer, 2012, 55, 3225-3238.  | 4.8  | 103       |
| 9  | Using artificial neural network to predict thermal conductivity of ethylene glycol with alumina nanoparticle. Journal of Thermal Analysis and Calorimetry, 2016, 126, 643-648.  | 3.6  | 103       |
| 10 | A comprehensive review of last experimental studies on thermal conductivity of nanofluids. Journal of Thermal Analysis and Calorimetry, 2015, 122, 863-884.   | 3.6  | 90        |
| 11 | 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. International Journal of Heat and Mass Transfer, 2014, 69, 293-299. | 4.8  | 84        |
| 12 | 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.   | 4.8  | 81        |
| 13 | Molecular Dynamics Simulations on Coalescence and Non-coalescence of Conducting Droplets. Langmuir, 2015, 31, 7457-7462.  | 3.5  | 79        |
| 14 | Two-phase mixture model for nanofluid turbulent flow and heat transfer: Effect of heterogeneous distribution of nanoparticles. Chemical Engineering Science, 2017, 167, 135-144.  | 3.8  | 76        |
| 15 | Humidity of reactant fuel on the cell performance of PEM fuel cell with baffle-blocked flow field designs. Journal of Power Sources, 2006, 159, 468-477.  | 7.8  | 65        |
| 16 | Dynamic cell performance of kW-grade proton exchange membrane fuel cell stack with dead-ended anode. Applied Energy, 2015, 142, 108-114.  | 10.1 | 65        |
| 17 | Effect of humidity of reactants on the cell performance of PEM fuel cells with parallel and interdigitated flow field designs. Journal of Power Sources, 2008, 176, 247-258.  | 7.8  | 63        |
| 18 | Three-dimensional numerical study on cell performance and transport phenomena of PEM fuel cells with conventional flow fields. International Journal of Hydrogen Energy, 2008, 33, 156-164.   | 7.1  | 63        |

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|----|--|------|-----------|
| 19 | 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. International Journal of Heat and Mass Transfer, 2014, 69, 276-284.     | 4.8  | 63        |
| 20 | Reduction in the contact time of impacting droplets by decorating a rectangular ridge on superhydrophobic surfaces. International Journal of Heat and Mass Transfer, 2019, 132, 1105-1115.   | 4.8  | 62        |
| 21 | Enhancement of maximum temperature drop across thermoelectric cooler through two-stage design and transient supercooling effect. Applied Energy, 2016, 175, 285-292.   | 10.1 | 56        |
| 22 | Investigation of heat transfer enhancement by electrohydrodynamics in a double-wall-heated channel. International Journal of Heat and Mass Transfer, 2017, 113, 373-383.   | 4.8  | 50        |
| 23 | Enhanced Peltier cooling of two-stage thermoelectric cooler via pulse currents. International Journal of Heat and Mass Transfer, 2017, 114, 656-663.   | 4.8  | 49        |
| 24 | 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. International Journal of Heat and Mass Transfer, 2018, 122, 651-659. | 4.8  | 48        |
| 25 | Experimental study on cooling performance of minichannel heat sink using water-based MEPCM particles. International Communications in Heat and Mass Transfer, 2013, 48, 67-72.   | 5.6  | 46        |
| 26 | Efficacy of divergent minichannels on cooling performance of heat sinks with water-based MEPCM suspensions. International Journal of Thermal Sciences, 2018, 130, 333-346.   | 4.9  | 46        |
| 27 | Cooling performance of MEPCM suspensions for heat dissipation intensification in a minichannel heat sink. International Journal of Heat and Mass Transfer, 2017, 115, 43-49.   | 4.8  | 45        |
| 28 | Novel bufferless photosynthetic microbial fuel cell (PMFCs) for enhanced electrochemical performance. Bioresource Technology, 2018, 255, 83-87.  | 9.6  | 45        |
| 29 | The application of artificial neural networks to predict the performance of solar chimney filled with phase change materials. Energy Conversion and Management, 2018, 171, 1255-1262.  | 9.2  | 44        |
| 30 | 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.  | 4.8  | 43        |
| 31 | Electro-coalescence of two charged droplets under constant and pulsed DC electric fields. International Journal of Heat and Mass Transfer, 2016, 98, 10-16.  | 4.8  | 42        |
| 32 | Microencapsulated n-eicosane PCM suspensions: Thermophysical properties measurement and modeling. International Journal of Heat and Mass Transfer, 2018, 125, 792-800.   | 4.8  | 40        |
| 33 | Thermal and hydrodynamic characteristics of divergent rectangular minichannel heat sinks. International Journal of Heat and Mass Transfer, 2018, 122, 264-274.   | 4.8  | 39        |
| 34 | Assessment of recirculation batch mode operation in bufferless Bio-cathode microbial Fuel Cells (MFCs). Applied Energy, 2018, 209, 120-126.  | 10.1 | 39        |
| 35 | Experimental study of cooling performance of water-based alumina nanofluid in a minichannel heat sink with MEPCM layer embedded in its ceiling. International Communications in Heat and Mass Transfer, 2019, 103, 1-6.              | 5.6  | 39        |
| 36 | Experimental study on fluid flow and heat transfer characteristics of falling film over tube bundle. International Journal of Heat and Mass Transfer, 2019, 130, 9-24.   | 4.8  | 39        |

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|----|---|------|-----------|
| 37 | Enhancement of boiling heat transfer of thin water film on an electrified solid surface. International Journal of Heat and Mass Transfer, 2017, 109, 410-416.   | 4.8  | 38        |
| 38 | Exposing effect of comb-type cathode electrode on the performance of sediment microbial fuel cells. Applied Energy, 2017, 204, 620-625.   | 10.1 | 38        |
| 39 | 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.   | 4.8  | 38        |
| 40 | 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. | 4.8  | 37        |
| 41 | Heat transfer enhancement of microchannel heat sink using transcritical carbon dioxide as the coolant. Energy Conversion and Management, 2016, 110, 154-164.  | 9.2  | 36        |
| 42 | 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.                                    | 4.8  | 35        |
| 43 | Thermal performance analysis of a 30 kW switched reluctance motor. International Journal of Heat and Mass Transfer, 2017, 114, 145-154.   | 4.8  | 33        |
| 44 | 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. International Journal of Heat and Mass Transfer, 2018, 120, 66-75.                                  | 4.8  | 33        |
| 45 | Asymmetric heat transfer characteristics of a double droplet impact on a moving liquid film. International Journal of Heat and Mass Transfer, 2018, 126, 649-659.   | 4.8  | 33        |
| 46 | 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.  | 4.8  | 33        |
| 47 | Thermal energy storage characteristics in an enclosure packed with MEPCM particles: An experimental and numerical study. International Journal of Heat and Mass Transfer, 2014, 73, 88-96.  | 4.8  | 31        |
| 48 | 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.  | 5.6  | 30        |
| 49 | Experimental study of cooling characteristics of water-based alumina nanofluid in a minichannel heat sink. Case Studies in Thermal Engineering, 2019, 14, 100418.   | 5.7  | 30        |
| 50 | Experimental study on thermophysical properties of water-based nanoemulsion of n-eicosane PCM. Journal of Molecular Liquids, 2021, 321, 114760.   | 4.9  | 29        |
| 51 | Performance improvement of air-breathing proton exchange membrane fuel cell stacks by thermal management. International Journal of Hydrogen Energy, 2020, 45, 22324-22339.  | 7.1  | 28        |
| 52 | Physical properties measurement and performance comparison of membranes for planar membrane humidifiers. International Journal of Heat and Mass Transfer, 2019, 136, 393-403.   | 4.8  | 26        |
| 53 | Effects of Nanoparticle Enhanced Lubricant Films in Thermal Design of Plain Journal Bearings at High Reynolds Numbers. Symmetry, 2019, 11, 1353.  | 2.2  | 25        |
| 54 | Performance evaluation of a multi-stage plate-type membrane humidifier for proton exchange membrane fuel cell. Energy Conversion and Management, 2018, 176, 123-130.  | 9.2  | 24        |

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|----|---|------|-----------|
| 55 | Dynamics of droplets impacting hydrophilic surfaces decorated with a hydrophobic strip. International Journal of Heat and Mass Transfer, 2019, 135, 235-246.  | 4.8  | 24        |
| 56 | Experimental study on convective boiling of micro-pin-finned channels with parallel arrangement fins for FC-72 dielectric fluid. International Journal of Heat and Mass Transfer, 2019, 138, 390-400.                                 | 4.8  | 23        |
| 57 | 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. | 4.8  | 23        |
| 58 | Review on design factors of microbial fuel cells using Buckingham's Pi Theorem. Renewable and Sustainable Energy Reviews, 2020, 130, 109878.  | 16.4 | 23        |
| 59 | Molecular dynamics investigation on enhancement of heat transfer between electrified solid surface and liquid water. International Journal of Heat and Mass Transfer, 2018, 125, 756-760.   | 4.8  | 22        |
| 60 | Measurement and Artificial Neural Network Modeling of Electrical Conductivity of CuO/Glycerol Nanofluids at Various Thermal and Concentration Conditions. Energies, 2018, 11, 1190.   | 3.1  | 22        |
| 61 | 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.  | 4.8  | 21        |
| 62 | 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.   | 5.1  | 21        |
| 63 | 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.  | 4.8  | 20        |
| 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. International Journal of Mechanical Sciences, 2019, 151, 95-105.                    | 6.7  | 20        |
| 65 | Optimization of Design Parameters for a Sandwich-Distribution Porous-Microchannel Heat Sink. Numerical Heat Transfer; Part A: Applications, 2014, 66, 229-251.  | 2.1  | 19        |
| 66 | Comparative study on thermal performance of MEPCM suspensions in parallel and divergent minichannel heat sinks. International Communications in Heat and Mass Transfer, 2018, 94, 96-105.   | 5.6  | 19        |
| 67 | Optimization of the Electrolyte Parameters and Components in Zinc Particle Fuel Cells. Energies, 2019, 12, 1090.  | 3.1  | 19        |
| 68 | Experimental study of transient thermal characteristics of nanofluid in a minichannel heat sink with MEPCM layer in its ceiling. International Journal of Heat and Mass Transfer, 2019, 133, 1041-1051.                               | 4.8  | 19        |
| 69 | 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.   | 4.8  | 19        |
| 70 | An experimental study of forced convection effectiveness of Al <sub>2</sub> O <sub>3</sub> -water nanofluid flowing in circular tubes. International Communications in Heat and Mass Transfer, 2017, 83, 23-29.                       | 5.6  | 18        |
| 71 | 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.               | 2.1  | 18        |
| 72 | Experimental study on transient supercooling of two-stage thermoelectric cooler. Case Studies in Thermal Engineering, 2019, 14, 100509.   | 5.7  | 17        |

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|----|---|-----|-----------|
| 73 | Improved performance of a Zn-air fuel cell by coupling Zn particle fuel and flowing electrolyte. Chemical Physics Letters, 2019, 728, 160-166.  | 2.6 | 17        |
| 74 | Thermo-economic Evaluation of Producing Liquefied Natural Gas and Natural Gas Liquids from Flare Gases. Energies, 2018, 11, 1868.   | 3.1 | 16        |
| 75 | 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. International Journal of Heat and Mass Transfer, 2016, 100, 464-481. | 4.8 | 15        |
| 76 | Bubble characteristics in time periodic saturated flow boiling of R-134a in a narrow annular pipe due to heat flux oscillation. International Journal of Heat and Mass Transfer, 2016, 102, 1150-1158.  | 4.8 | 15        |
| 77 | Optimization of pulse current on energy storage of zinc-air flow batteries. Journal of Power Sources, 2019, 442, 227253.  | 7.8 | 15        |
| 78 | Application of interface material and effects of oxygen gradient on the performance of single-chamber sediment microbial fuel cells (SSMFCs). Journal of Environmental Sciences, 2019, 75, 163-168.   | 6.1 | 15        |
| 79 | A Comprehensive Review on Measurement and Correlation Development of Capillary Pressure for Two-Phase Modeling of Proton Exchange Membrane Fuel Cells. Journal of Chemistry, 2015, 2015, 1-17.  | 1.9 | 14        |
| 80 | Experimental and numerical study on transient thermal energy storage of microencapsulated phase change material particles in an enclosure. International Journal of Heat and Mass Transfer, 2016, 94, 191-198.  | 4.8 | 14        |
| 81 | Laser-scribed Graphene Electrodes Functionalized with Nafion/Fe <sub>3</sub> O <sub>4</sub> Nanohybrids for the Ultrasensitive Detection of Neurotoxin Drug Clioquinol. ACS Omega, 2022, 7, 15936-15950.  | 3.5 | 14        |
| 82 | Time periodic saturated flow boiling heat transfer of R-134a in a narrow annular duct due to heat flux oscillation. International Journal of Heat and Mass Transfer, 2017, 106, 35-46.  | 4.8 | 12        |
| 83 | Highly heterogeneous interior structure of biofilm wastewater for enhanced pollutant removals. Bioresource Technology, 2019, 291, 121919.   | 9.6 | 12        |
| 84 | 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.  | 4.8 | 12        |
| 85 | 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. Energies, 2018, 11, 565.  | 3.1 | 11        |
| 86 | Enhancement of air-flow management in Zn-air fuel cells by the optimization of air-flow parameters. Energy, 2020, 197, 117181.  | 8.8 | 11        |
| 87 | Thermophysical properties of water-based nano-emulsion of tricosane - An Experimental investigation. Case Studies in Thermal Engineering, 2021, 24, 100849.   | 5.7 | 11        |
| 88 | Effects of operating parameters on transport phenomena and cell performance of PEM fuel cells with conventional and contracted flow field designs. International Journal of Hydrogen Energy, 2012, 37, 15808-15819.   | 7.1 | 10        |
| 89 | Melting processes of phase change materials in an enclosure with a free-moving ceiling: An experimental and numerical study. International Journal of Heat and Mass Transfer, 2015, 86, 780-786.  | 4.8 | 10        |
| 90 | Time periodic evaporation heat transfer of R-134a in a narrow annular duct due to mass flow rate oscillation. International Journal of Heat and Mass Transfer, 2018, 118, 154-164.  | 4.8 | 10        |

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| 91  | Bubble dynamics in evaporation flow of R-134a in narrow annular ducts due to flow rate oscillation. International Communications in Heat and Mass Transfer, 2019, 100, 27-34.   | 5.6 | 10        |
| 92  | Protection efficiencies of surface-active inhibitors in zinc-air batteries. International Journal of Energy Research, 2020, 44, 11883-11893.  | 4.5 | 10        |
| 93  | 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.   | 4.5 | 10        |
| 94  | 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.   | 5.7 | 10        |
| 95  | Optimization of the zinc oxide reduction in the charging process of zinc-air flow batteries. International Journal of Energy Research, 2020, 44, 8399-8412.   | 4.5 | 10        |
| 96  | Experimental study on heat and mass transfer of a multi-stage planar dehumidifier. International Journal of Heat and Mass Transfer, 2020, 148, 119104.  | 4.8 | 9         |
| 97  | Discharge performance of Zn-air fuel cells under the influence of Carbopol 940 thickener. International Journal of Energy Research, 2020, 44, 4543-4555.  | 4.5 | 9         |
| 98  | A fluid dynamics perspective on the flow dependent performance of honey comb microbial fuel cells. Energy, 2021, 214, 118928.   | 8.8 | 9         |
| 99  | Cooling performance of Al <sub>2</sub> O <sub>3</sub> -water nanofluid flow in a minichannel with thermal buoyancy and wall conduction effects. Case Studies in Thermal Engineering, 2018, 12, 833-842.   | 5.7 | 8         |
| 100 | Physical properties measurement and performance analysis of membranes for a multi-stage planar membrane dehumidifier. Case Studies in Thermal Engineering, 2019, 15, 100516.  | 5.7 | 8         |
| 101 | Electromagnetic field analysis and cooling system design for high power switched reluctance motor. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1756-1785.   | 2.8 | 8         |
| 102 | Innovative multi-processed Na-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.                                     | 4.5 | 7         |
| 103 | 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.  | 5.6 | 7         |
| 104 | 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.   | 4.8 | 7         |
| 105 | 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. | 2.9 | 7         |
| 106 | Experimental study on time periodic evaporation heat transfer of R-134a in annular ducts due to wall heat flux oscillation. International Journal of Heat and Mass Transfer, 2017, 106, 1232-1241.  | 4.8 | 6         |
| 107 | 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.   | 4.9 | 6         |
| 108 | Transient thermal energy storage in partitioned enclosures packed with microencapsulated phase change materials. International Communications in Heat and Mass Transfer, 2017, 86, 253-261.   | 5.6 | 5         |



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|-----|---|-----|-----------|
| 109 | Experimental study on two water drops successively impinging on a solid surface. AIP Advances, 2020, 10, .  | 1.3 | 5         |
| 110 | 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.  | 4.5 | 5         |
| 111 | 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. | 1.1 | 5         |
| 112 | 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.   | 4.5 | 5         |
| 113 | Performance assessment of a flat-sheet membrane-based dehumidifier with serpentine flow channels: An experimental study. Energy Conversion and Management, 2022, 258, 115492.   | 9.2 | 5         |
| 114 | Numerical investigation into transient response of proton exchange membrane fuel cell with serpentine flow field. International Journal of Energy Research, 2013, 37, 1302-1312.  | 4.5 | 4         |
| 115 | Electrochemical polarization analysis for optimization of external operation parameters in zinc fuel cells. RSC Advances, 2020, 10, 28807-28818.  | 3.6 | 4         |
| 116 | Numerical analysis on heat and mass transfer of the planar membrane dehumidifier. Numerical Heat Transfer; Part A: Applications, 2021, 80, 92-110.  | 2.1 | 4         |
| 117 | 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.  | 4.8 | 4         |
| 118 | The onset of natural convection in a horizontal nanofluid layer heated from below. Heat Transfer, 2021, 50, 7764-7783.  | 3.0 | 3         |
| 119 | Bubble characteristics in time periodic evaporation flow of R-134a in a narrow annular pipe due to heat flux oscillation. International Communications in Heat and Mass Transfer, 2016, 79, 9-15.   | 5.6 | 2         |
| 120 | Unsteady phenomena in saturated flow boiling heat transfer – An experimental study on oscillating refrigerant mass flux. AEJ - Alexandria Engineering Journal, 2021, , .  | 6.4 | 2         |
| 121 | Effectively inhibiting particles aggregation and sedimentation for $\text{TiO}_2\text{-H}_2\text{O}$ suspension by application of an electrode. Journal of Dispersion Science and Technology, 2023, 44, 679-685.                                      | 2.4 | 2         |
| 122 | Tracking the diversity and interaction of methanogens in the energy recovery process of a full-scale wastewater treatment plant. Environmental Research, 2022, 211, 113010.   | 7.5 | 2         |
| 123 | Experimental study on performance measurement of planar vacuum membrane dehumidifier with serpentine flow channel designs. AEJ - Alexandria Engineering Journal, 2022, 61, 10701-10711.   | 6.4 | 2         |
| 124 | Thermal performance of various cross-sectioned rectangular minichannels with water-based phase change nano-suspensions. International Journal of Energy Research, 2020, 44, 344-359.  | 4.5 | 1         |
| 125 | Experimental study on two consecutive droplets impacting onto an inclined solid surface. Journal of Mechanics, 2021, 37, 432-445.   | 1.4 | 1         |