# Mehdi Ashjaee

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 87 papers | 1,591 citations | 21 h-index | 36 g-index |
| 89 ext. papers | 1,924 ext. citations | 3.9 avg, IF | 5.5 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 87 | Design, dynamic simulation, and optimal size selection of a hybrid solar/wind and battery-based system for off-grid energy supply. *Renewable Energy*, **2022**, 187, 1082-1099 | 8.1 | 2 |
| 86 | Investigating the effect of injection rate on the capture efficiency of nanoparticles in different geometries of stenosed vessel. *Journal of Magnetism and Magnetic Materials*, **2022**, 544, 168665 | 2.8 | 0 |
| 85 | Novel hybrid thermal management for Li-ion batteries with nanofluid cooling in the presence of alternating magnetic field: An experimental study. *Case Studies in Thermal Engineering*, **2021**, 28, 101539 | 5.6 | 7 |
| 84 | Continuous power generation through a novel solar/geothermal chimney system: Technical/cost analyses and multi-objective particle swarm optimization. *Journal of Cleaner Production*, **2021**, 283, 124666 | 10.3 | 14 |
| 83 | On-demand heat transfer augmentation using magnetically triggered ferrofluid containing eco-friendly treated CoFe2O4/rGO. *Powder Technology*, **2021**, 378, 468-486 | 5.2 | 6 |
| 82 | Experimental investigation on thermo-physical properties and heat transfer characteristics of green synthesized highly stable CoFe2O4/rGO nanofluid. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 610, 125923 | 5.1 | 9 |
| 81 | 4E analysis and tri-objective optimization of a triple-pressure combined cycle power plant with combustion chamber steam injection to control NOx emission. *Journal of Thermal Analysis and Calorimetry*, **2021**, 145, 1317-1333 | 4.1 | 7 |
| 80 | Investigating the effect of wearing glasses on the human eyes Ttemperature distribution in different ambient conditions. *Journal of Thermal Biology*, **2021**, 99, 102971 | 2.9 | 1 |
| 79 | Development of hybrid cooling method with PCM and Al2O3 nanofluid in aluminium minichannels using heat source model of Li-ion batteries. *Applied Thermal Engineering*, **2020**, 178, 115543 | 5.8 | 37 |
| 78 | Hybrid thermal management of lithium-ion batteries using nanofluid, metal foam, and phase change material: an integrated numerical Experimental approach. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 1703-1715 | 4.1 | 34 |
| 77 | Investigation on trajectories and capture of magnetic drug carrier nanoparticles after injection into a direct vessel. *Journal of Magnetism and Magnetic Materials*, **2020**, 497, 166065 | 2.8 | 12 |
| 76 | Dynamic feasibility assessment and 3E analysis of a smart building energy system integrated with hybrid photovoltaic-thermal panels and energy storage. *Sustainable Energy Technologies and Assessments*, **2020**, 42, 100835 | 4.7 | 15 |
| 75 | Lithium-ion battery thermal management system with Al2O3/AgO/CuO nanofluids and phase change material. *Applied Thermal Engineering*, **2020**, 180, 115840 | 5.8 | 42 |
| 74 | Thermal and Fluid-Flow Characteristics of Silver-Water Nanofluid in a Metal-Foam Filled Channel. *Heat Transfer Engineering*, **2020**, 1-19 | 1.7 | 1 |
| 73 | Experimental design for estimation of the distribution of the convective heat transfer coefficient for a bubbly impinging jet. *Journal of Thermal Analysis and Calorimetry*, **2020**, 140, 439-456 | 4.1 | 5 |
| 72 | Experimental investigation on heat transfer of MgO nanofluid in tubes partially filled with metal foam. *Powder Technology*, **2019**, 354, 734-742 | 5.2 | 19 |
| 71 | A novel hybrid thermal management for Li-ion batteries using phase change materials embedded in copper foams combined with forced-air convection. *International Journal of Thermal Sciences*, **2019**, 141, 47-61 | 4.1 | 72 |

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| 70 | Experimental Investigation of Thermal Conductivity and Viscosity of SiO2/Multiwalled Carbon Nanotube Hybrid Nanofluids. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 3398-3407 | 1.3 | 13 |
| 69 | Experimental investigation on premixed flame of H2/CO in a slot burner using the Mach-Zehnder interferometry. *Optics and Laser Technology*, **2019**, 115, 140-148 | 4.2 | 8 |
| 68 | Experimental investigation of the effects of passivated aluminum nanoparticles on butane flame structure. *Experimental Thermal and Fluid Science*, **2019**, 100, 33-48 | 3 | 2 |
| 67 | Effect of different frequency functions on ferrofluid FHD flow. *Journal of Magnetism and Magnetic Materials*, **2019**, 480, 112-131 | 2.8 | 7 |
| 66 | Experimental investigation on heat transfer characteristics of partially premixed round methane-air impinging flame jet using Mach-Zehnder interferometry. *International Journal of Thermal Sciences*, **2019**, 137, 601-615 | 4.1 | 6 |
| 65 | Dynamic measurement of ferrofluid thermal conductivity under an external magnetic field. *Heat and Mass Transfer*, **2019**, 55, 1583-1592 | 2.2 | 4 |
| 64 | Experimental investigations on the flame structure and temperature field of landfill gas in impinging slot burners. *Energy*, **2019**, 170, 507-520 | 7.9 | 5 |
| 63 | Numerical investigation of temperature increment effect on bubble dynamics in stagnant water and Al2O3 nanofluid column. *Particulate Science and Technology*, **2019**, 37, 292-302 | 2 | 2 |
| 62 | Effect of orifice shape on bubble formation mechanism. *Meccanica*, **2018**, 53, 2461-2483 | 2.1 | 8 |
| 61 | Experimental investigation of heat transfer and pressure drop of alumina/water nano-fluid in a porous miniature heat sink. *Experimental Heat Transfer*, **2018**, 31, 495-512 | 2.4 | 14 |
| 60 | Enhanced power generation through integrated renewable energy plants: Solar chimney and waste-to-energy. *Energy Conversion and Management*, **2018**, 166, 48-63 | 10.6 | 55 |
| 59 | Combined experimental-numerical investigation on the structure of methane/landfill gas flame using PIV. *Experimental Thermal and Fluid Science*, **2018**, 94, 23-33 | 3 | 6 |
| 58 | An experimental and numerical study on the combustion and flame characteristics of hydrogen in intersecting slot burners. *International Journal of Hydrogen Energy*, **2018**, 43, 3034-3049 | 6.7 | 5 |
| 57 | Experimental investigation on temperature field and heat transfer distribution of a slot burner methane/air flame impinging on a curved surface. *Applied Thermal Engineering*, **2018**, 129, 761-771 | 5.8 | 19 |
| 56 | Thermal and hydrodynamic performances of MHD ferrofluid flow inside a porous channel. *Experimental Thermal and Fluid Science*, **2018**, 90, 1-13 | 3 | 16 |
| 55 | Temperature field investigation of hydrogen/air and syngas/air axisymmetric laminar flames using Mach-Zehnder interferometry. *Applied Optics*, **2018**, 57, 5057-5067 | 1.7 | 3 |
| 54 | Energy, exergy and exergoeconomic (3E) analyses and multi-objective optimization of a solar and geothermal based integrated energy system. *Applied Thermal Engineering*, **2018**, 143, 1011-1022 | 5.8 | 90 |
| 53 | Multi-criteria optimization and comparative performance analysis of a power plant fed by municipal solid waste using a gasifier or digester. *Energy Conversion and Management*, **2018**, 171, 863-878 | 10.6 | 42 |

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| 52 | Thermo-economic analysis of transcritical CO2 cycles with bounded and unbounded reheats in low-temperature heat recovery applications. *Energy*, **2017**, 133, 676-690 | 7.9 | 8 |
| 51 | Experimental Measurement of Laminar Burning Velocity and Flammability Limits of Landfill Gas at Atmospheric and Elevated Pressures. *Energy & Fuels*, **2017**, 31, 3196-3205 | 4.1 | 14 |
| 50 | A novel numerical approach for investigation of the gas bubble characteristics in stagnant liquid using Young-Laplace equation. *Chemical Engineering Science*, **2017**, 173, 37-48 | 4.4 | 11 |
| 49 | Combustion of Syngas in Intersecting Burners Using the Interferometry Method. *Energy & Fuels*, **2017**, 31, 10121-10132 | 4.1 | 9 |
| 48 | Thermal energy absorption in a heat sink with elliptical cross section and tangential impinging inlet flow of nanofluid. *Experimental Thermal and Fluid Science*, **2017**, 89, 50-61 | 3 | 6 |
| 47 | Experimental and Numerical Investigation of the Laminar Burning Velocity and Combustion Characteristics of Biogas at High Pressures. *Energy & Fuels*, **2017**, 31, 14169-14179 | 4.1 | 10 |
| 46 | Experimental investigation on convective heat transfer and hydrodynamic characteristics of magnetite nanofluid under the influence of an alternating magnetic field. *International Journal of Thermal Sciences*, **2016**, 99, 113-124 | 4.1 | 84 |
| 45 | Experimental investigation on the effect of nanofluid on the thermal performance of symmetric sintered U shaped heat pipe. *Heat and Mass Transfer*, **2016**, 52, 1255-1264 | 2.2 | 6 |
| 44 | Experimental Investigation of Heat Transfer Coefficient from the Impingement of a Slot Jet Using Conjugate Gradient Method with Adjoint Equation. *Experimental Heat Transfer*, **2016**, 29, 657-672 | 2.4 | 4 |
| 43 | Experimental and numerical study on heat transfer characteristics of various geometrical arrangement of impinging jet arrays. *International Journal of Thermal Sciences*, **2016**, 102, 26-38 | 4.1 | 8 |
| 42 | Effect of SiO2 nanoparticle size on initiation and intensity of bubble formation in a water pump. *Experimental Thermal and Fluid Science*, **2016**, 72, 40-46 | 3 | 8 |
| 41 | Experimental study of a laminar premixed LFG/air flame in a slot burner using Mach-Zehnder interferometry. *Thermal Science*, **2016**, 20, 1649-1660 | 1.2 | 1 |
| 40 | Experimental studies on the viscosity of Fe nanoparticles dispersed in ethylene glycol and water mixture. *Thermal Science*, **2016**, 20, 1661-1670 | 1.2 | 5 |
| 39 | Heat Transfer and Hydrodynamic Performance Analysis of a Miniature Tangential Heat Sink Using Al2O3–H2O and TiO2–H2O Nanofluids. *Experimental Heat Transfer*, **2016**, 29, 536-560 | 2.4 | 14 |
| 38 | SiO2 nanofluid planar jet impingement cooling on a convex heated plate. *Heat and Mass Transfer*, **2016**, 52, 2735-2746 | 2.2 | 4 |
| 37 | Experimental investigation on heat transfer and hydrodynamic behavior of magnetite nanofluid flow in a channel with recognition of the best models for transport properties. *Experimental Thermal and Fluid Science*, **2015**, 68, 582-592 | 3 | 13 |
| 36 | Thermal Conductivity of (mathrm{Fe}_{2}mathrm{O}_{3}) and (mathrm{Fe}_{3}mathrm{O}_{4}) Magnetic Nanofluids Under the Influence of Magnetic Field. *International Journal of Thermophysics*, **2015**, 36, 2720-2739 | 2.1 | 40 |
| 35 | Experimental investigation on thermal conductivity of water based nickel ferrite nanofluids. *Advanced Powder Technology*, **2015**, 26, 1529-1536 | 4.6 | 46 |

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| 34 | Effect of magnetic field on the forced convection heat transfer and pressure drop of a magnetic nanofluid in a miniature heat sink. *Heat and Mass Transfer*, **2015**, 51, 953-964 | 2.2 | 32 |
| 33 | Heat transfer characteristics of laminar slot jet arrays impinging on a constant target surface temperature. *Applied Thermal Engineering*, **2015**, 76, 252-260 | 5.8 | 17 |
| 32 | Slot jet impingement cooling of a concave surface in an annulus. *Experimental Thermal and Fluid Science*, **2015**, 68, 300-309 | 3 | 10 |
| 31 | Thermo-economic optimization of low-grade waste heat recovery in Yazd combined-cycle power plant (Iran) by a CO2 transcritical Rankine cycle. *Energy*, **2015**, 86, 74-84 | 7.9 | 32 |
| 30 | Hydrodynamics and Heat Transfer Characteristics of a Miniature Plate Pin-Fin Heat Sink Utilizing Al2O3–Water and TiO2–Water Nanofluids. *Journal of Thermal Science and Engineering Applications*, **2015**, 7, | 1.9 | 15 |
| 29 | Electricity production with low grade heat in thermal power plants by design improvement of a hybrid dry cooling tower and a solar chimney concept. *Energy Conversion and Management*, **2015**, 94, 1-11 | 10.6 | 41 |
| 28 | Convective heat transfer characteristics of magnetite nanofluid under the influence of constant and alternating magnetic field. *Powder Technology*, **2015**, 274, 258-267 | 5.2 | 92 |
| 27 | Effect of an alternating nonuniform magnetic field on ferrofluid flow and heat transfer in a channel. *Journal of Magnetism and Magnetic Materials*, **2014**, 362, 80-89 | 2.8 | 75 |
| 26 | A comprehensive feasibility study of applying solar energy to design a zero energy building for a typical home in Tehran. *Energy and Buildings*, **2014**, 72, 329-339 | 7 | 52 |
| 25 | A Numerical Study on Natural Convention Heat Transfer From a Horizontal Isothermal Cylinder Located Underneath an Adiabatic Ceiling. *Heat Transfer Engineering*, **2014**, 35, 953-962 | 1.7 | 8 |
| 24 | Experimental investigation on thermal conductivity of MFe2O4 (M = Fe and Co) magnetic nanofluids under influence of magnetic field. *Thermochimica Acta*, **2014**, 598, 59-67 | 2.9 | 43 |
| 23 | The influence of SiO2 nanoparticles on cavitation initiation and intensity in a centrifugal water pump. *Experimental Thermal and Fluid Science*, **2014**, 55, 71-76 | 3 | 9 |
| 22 | Experimental investigation of natural convection in an enclosure with partial partitions at different angles. *Thermal Science*, **2014**, 18, 1133-1144 | 1.2 | 3 |
| 21 | Experimental and Numerical Study of Mixed and Natural Convection in an Enclosure With a Discrete Heat Source and Ventilation Ports. *Heat Transfer Engineering*, **2014**, 35, 63-73 | 1.7 | 23 |
| 20 | The thermal efficiency improvement of a steam Rankine cycle by innovative design of a hybrid cooling tower and a solar chimney concept. *Renewable Energy*, **2013**, 51, 465-473 | 8.1 | 48 |
| 19 | Neuro-Fuzzy Modeling of the Free Convection from Vertical Arrays of Isothermal Cylinders. *Journal of Thermophysics and Heat Transfer*, **2013**, 27, 588-592 | 1.3 | 10 |
| 18 | Study of mixed convection characteristics of confined planar jet impingement using the direct temperature gradient interferometric method. *International Journal of Thermal Sciences*, **2013**, 71, 205-215 | 4.1 | 10 |
| 17 | Experimental and numerical investigation of heat transfer in a miniature heat sink utilizing silica nanofluid. *Superlattices and Microstructures*, **2012**, 51, 247-264 | 2.8 | 72 |

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| 16 | Experimental and Numerical Investigation on Free Convection From a Horizontal Cylinder Located Above an Adiabatic Surface. *Heat Transfer Engineering*, **2012**, 33, 213-224 | 1.7 | 15 |
| 15 | Study of heat transfer enhancement in a nanofluid-cooled miniature heat sink. *International Communications in Heat and Mass Transfer*, **2012**, 39, 877-884 | 5.8 | 34 |
| 14 | EXPERIMENTAL INVESTIGATION OF HEAT TRANSFER IN A NOVEL HEAT SINK BY MEANS OF ALUMINA NANOFLUIDS. *Heat Transfer Research*, **2012**, 43, 709-720 | 3.9 | 19 |
| 13 | Study of Electrohydrodynamic Micropumping Through Conduction Phenomenon. *IEEE Transactions on Industry Applications*, **2011**, 47, 2224-2234 | 4.3 | 7 |
| 12 | An investigation on effect of geometrical parameters on spray cone angle and droplet size distribution of a two-fluid atomizer. *Journal of Mechanical Science and Technology*, **2011**, 25, 3047-3052 | 1.6 | 8 |
| 11 | Analytical Investigation of the Effect of Viscous Dissipation on Couette Flow in a Channel Partially Filled with a Porous Medium. *Transport in Porous Media*, **2011**, 89, 1-13 | 3.1 | 5 |
| 10 | Effect of flow diverters on free convection heat transfer from a pair of vertical arrays of isothermal cylinders. *Experimental Thermal and Fluid Science*, **2011**, 35, 1398-1408 | 3 | 5 |
| 9 | Effect of flow conditions on spray cone angle of a two-fluid atomizer. *Journal of Mechanical Science and Technology*, **2011**, 25, 365-369 | 1.6 | 8 |
| 8 | Characterization of thermal field in mixed-convection cooling of a flat plate by an impinging slot jet **2010**, | | 1 |
| 7 | Mixed convection cooling of a heated circular cylinder by laminar upward-directed slot jet impingement. *Heat and Mass Transfer*, **2009**, 46, 225-236 | 2.2 | 6 |
| 6 | Enhancement of Free Convection Heat Transfer from a Vertical Array of Isothermal Cylinders by Flow Diverters. *Heat Transfer Engineering*, **2009**, 30, 197-206 | 1.7 | 4 |
| 5 | Slot jet impingement heat transfer from an isothermal circular cylinder **2008**, | | 2 |
| 4 | Development of an Electrohydrodynamic conduction micropump using PCB/LCP MEMS technology **2008**, | | 2 |
| 3 | Liquid-Liquid Coaxial Swirl Injector Performance Prediction Using General Regression Neural Network. *Particle and Particle Systems Characterization*, **2008**, 25, 454-464 | 3.1 | |
| 2 | PDA and Neural Network Investigation of Swirl Spray Interaction Phenomena. *Particle and Particle Systems Characterization*, **2005**, 22, 192-206 | 3.1 | 2 |
| 1 | Different nanofluids effect on bubble characteristics at the isothermal bubble column. *Canadian Journal of Chemical Engineering*, | 2.3 | 1 |