

Majid Saffar-avval

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|--------------------|-------------------------|----------------|-----------------|
| 90 papers | 2,542 citations | 28 h-index | 48 g-index |
| 101 ext. papers | 2,937 ext. citations | 4.4 avg, IF | 5.46 L-index |

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 90 | Configuration optimization of the honeycomb core in the latent heat thermal energy storage of a solar air heater: Experimental and numerical study. <i>International Journal of Energy Research</i> , 2022 , 46, 5924-5954 | 4.5 | 1 |
| 89 | A combined rate-shaping-splitting injection strategy for regulating stratification characteristics of fuel sprays. <i>Applied Thermal Engineering</i> , 2021 , 187, 116544 | 5.8 | 0 |
| 88 | Experimental study of partially metal foam wrapped tube bundles. <i>International Journal of Thermal Sciences</i> , 2021 , 162, 106798 | 4.1 | 2 |
| 87 | Electrohydrodynamic water desalination: Evaluating the productivity and energy consumption. <i>Desalination</i> , 2021 , 497, 114768 | 10.3 | 1 |
| 86 | 3D simulation and parametric optimization of a solar air heater with a novel staggered cuboid baffles. <i>International Journal of Mechanical Sciences</i> , 2021 , 205, 106607 | 5.5 | 8 |
| 85 | Enhancement of evaporation from liquid surfaces due to electrohydrodynamic flow: A review. <i>Journal of Electrostatics</i> , 2021 , 114, 103630 | 1.7 | 0 |
| 84 | Study of particle mass loading effects on sand erosion in a series of fittings. <i>Powder Technology</i> , 2020 , 373, 118-141 | 5.2 | 8 |
| 83 | Heat transfer enhancement in an annulus under ultrasound field: A numerical and experimental study. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 114, 104560 | 5.8 | 9 |
| 82 | 3D computational modeling of sand erosion in gas-liquid-particle multiphase annular flows in bends. <i>Wear</i> , 2020 , 450-451, 203241 | 3.5 | 14 |
| 81 | A large eddy simulation study of cyclones: The effect of sub-models on efficiency and erosion prediction. <i>Powder Technology</i> , 2020 , 360, 1237-1252 | 5.2 | 8 |
| 80 | Forced convection heat transfer enhancement using a coaxial wire-tube corona system. <i>Journal of Electrostatics</i> , 2020 , 103, 103415 | 1.7 | 8 |
| 79 | On the evaporation enhancement from saline water due to corona discharge generated EHD flow: A numerical and experimental study. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 119, 104988 | 5.8 | 2 |
| 78 | Numerical simulation of oscillating plates at the visco-inertial regime for bio-inspired pumping and mixing applications. <i>Physics of Fluids</i> , 2020 , 32, 101906 | 4.4 | 2 |
| 77 | Numerical simulation of convective heat transfer of non-Newtonian carbon-based nanofluids in U-bend tubes using Buongiorno's model. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 1 | 4.1 | |
| 76 | Experimental and numerical study on heat transfer enhancement using ultrasonic vibration in a double-pipe heat exchanger. <i>Applied Thermal Engineering</i> , 2019 , 159, 113867 | 5.8 | 25 |
| 75 | A solar-powered solution for water shortage problem in arid and semi-arid regions in coastal countries. <i>Sustainable Energy Technologies and Assessments</i> , 2019 , 35, 1-11 | 4.7 | 17 |
| 74 | Study of erosion prediction of turbulent gas-solid flow in plugged tees via CFD-DEM. <i>Powder Technology</i> , 2019 , 352, 136-150 | 5.2 | 15 |

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| 73 | Heat transfer enhancement of a nanofluid in a helical coil with flattened cross-section. <i>Chemical Engineering Research and Design</i> , 2019 , 146, 36-47 | 5.5 | 8 |
| 72 | Parcel-number-density control algorithms for the efficient simulation of particle-laden two-phase flows. <i>Journal of Computational Physics</i> , 2019 , 387, 569-588 | 4.1 | 6 |
| 71 | Theoretical and experimental modeling of EHD conduction in porous conductive material inside a tube. <i>Journal of Electrostatics</i> , 2019 , 97, 15-25 | 1.7 | 8 |
| 70 | An Investigation of Flow Across Porous Layer Wrapped Flat Tube Banks. <i>Transport in Porous Media</i> , 2019 , 127, 329-352 | 3.1 | 3 |
| 69 | Heat Transfer Investigation of a Tube Partially Wrapped by Metal Porous Layer as a Potential Novel Tube for Air Cooled Heat Exchangers. <i>Journal of Heat Transfer</i> , 2019 , 141, | 1.8 | 5 |
| 68 | An investigation of erosion prediction for 15° to 90° elbows by numerical simulation of gas-solid flow. <i>Powder Technology</i> , 2018 , 334, 9-26 | 5.2 | 23 |
| 67 | Numerical investigation of turbulent forced convection flow of nano fluid in curved and helical pipe using four-equation model. <i>Powder Technology</i> , 2018 , 328, 47-53 | 5.2 | 14 |
| 66 | Enhancement of convection heat transfer using EHD conduction method. <i>Experimental Thermal and Fluid Science</i> , 2018 , 93, 108-118 | 3 | 16 |
| 65 | Numerical modeling of sand particle erosion in return bends in gas-particle two-phase flow. <i>Scientia Iranica</i> , 2018 , 0-0 | 1.5 | 3 |
| 64 | Partially metal foam wrapped tube bundle as a novel generation of air cooled heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 118, 171-181 | 4.9 | 19 |
| 63 | Numerical investigation of water surface deformation due to corona discharge. <i>Journal of Electrostatics</i> , 2018 , 96, 151-159 | 1.7 | 9 |
| 62 | Numerical investigation of natural convection heat transfer in a cylindrical enclosure due to ultrasonic vibrations. <i>Ultrasonics</i> , 2017 , 76, 52-62 | 3.5 | 15 |
| 61 | Numerical investigation of nanofluid heat transfer in helically coiled tubes using the four-equation model. <i>Advanced Powder Technology</i> , 2017 , 28, 256-265 | 4.6 | 9 |
| 60 | Numerical Investigation of Magnetic Field Effect on Heat Transfer and Entropy Generation in Channel; New Approach for Fluid and Length Scale Selections. <i>Heat Transfer Engineering</i> , 2017 , 38, 1222-1232 | 1.7 | 4 |
| 59 | Experimental study on heat transfer enhancement of laminar ferrofluid flow in horizontal tube partially filled porous media under fixed parallel magnet bars. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 424, 16-25 | 2.8 | 36 |
| 58 | Experimental investigation of laminar forced convective heat transfer of Graphene/water nanofluid inside a circular tube. <i>International Journal of Thermal Sciences</i> , 2016 , 100, 316-323 | 4.1 | 78 |
| 57 | Effects of non-equilibrium condensation on deviation angle and efficiency in a steam turbine stage. <i>Journal of Mechanical Science and Technology</i> , 2016 , 30, 1351-1361 | 1.6 | 3 |
| 56 | Experimental Investigation of Saturated Flow Boiling Heat Transfer to TiO ₂ /R141b Nanorefrigerant. <i>Experimental Heat Transfer</i> , 2016 , 29, 188-204 | 2.4 | 19 |

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| 55 | Effects of surface roughness on deviation angle and performance losses in wet steam turbines. <i>Applied Thermal Engineering</i> , 2015 , 90, 158-173 | 5.8 | 27 |
| 54 | Optimization of conjugate heat transfer in wavy walls microchannels. <i>Applied Thermal Engineering</i> , 2015 , 82, 318-328 | 5.8 | 59 |
| 53 | Effect of different magnetic field distributions on laminar ferroconvection heat transfer in horizontal tube. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 389, 136-143 | 2.8 | 21 |
| 52 | Experimental and numerical investigation of nanofluid heat transfer in helically coiled tubes at constant wall heat flux. <i>Advanced Powder Technology</i> , 2015 , 26, 1483-1494 | 4.6 | 31 |
| 51 | The effects of wall roughness on erosion rate in gas-solid turbulent annular pipe flow. <i>Powder Technology</i> , 2015 , 271, 248-254 | 5.2 | 11 |
| 50 | Experimental and numerical investigation of turbulent nanofluid flow in helically coiled tubes under constant wall heat flux using Eulerian-Lagrangian approach. <i>Powder Technology</i> , 2015 , 269, 93-100 | 5.2 | 71 |
| 49 | Experimental Modeling of Gas-Solid Heat Transfer in a Pipe with Various Inclination Angles. <i>Heat Transfer Engineering</i> , 2015 , 36, 113-122 | 1.7 | 5 |
| 48 | Numerical simulation of gas flow and heat transfer in a rough microchannel using the lattice Boltzmann method. <i>Physical Review E</i> , 2015 , 92, 063034 | 2.4 | 8 |
| 47 | Analytical and numerical investigation of heat transfer and entropy generation of stratified two-phase flow in mini-channel. <i>International Journal of Thermal Sciences</i> , 2015 , 90, 24-37 | 4.1 | 10 |
| 46 | Cold start-up condition model for heat recovery steam generators. <i>Applied Thermal Engineering</i> , 2014 , 65, 502-512 | 5.8 | 20 |
| 45 | Turbulent Convective Heat Transfer and Pressure Drop of Graphene-Water Nanofluid Flowing Inside a Horizontal Circular Tube. <i>Journal of Dispersion Science and Technology</i> , 2014 , 35, 1230-1240 | 1.5 | 53 |
| 44 | Modeling and numerical investigation of erosion rate for turbulent two-phase gas-solid flow in horizontal pipes. <i>Powder Technology</i> , 2014 , 267, 362-370 | 5.2 | 30 |
| 43 | Entropy generation and heat transfer numerical analysis in pipes partially filled with porous medium. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 79, 496-506 | 4.9 | 72 |
| 42 | Three dimensional heat transfer modeling of gas-solid flow in a pipe under various inclination angles. <i>Powder Technology</i> , 2014 , 262, 223-232 | 5.2 | 8 |
| 41 | Wall Roughness Effect on Heat Transfer Rate of the Turbulent Gas-Solid Flow in Inclined Pipes 2014 | | 1 |
| 40 | Heat transfer investigation of laminar developing flow of nanofluids in a microchannel based on Eulerian-Lagrangian approach. <i>Canadian Journal of Chemical Engineering</i> , 2014 , 92, 1139-1149 | 2.3 | 31 |
| 39 | Experimental and numerical investigation of nanofluid heat transfer in helically coiled tubes at constant wall temperature using dispersion model. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 58, 480-491 | 4.9 | 83 |
| 38 | Hourly energy analysis and feasibility study of employing a thermocline TES system for an integrated CHP and DH network. <i>Energy Conversion and Management</i> , 2013 , 68, 281-292 | 10.6 | 31 |

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| 37 | A new configuration of bend tubes for compound optimization of heat and fluid flow. <i>Energy</i> , 2013 , 62, 418-424 | 7.9 | 54 |
| 36 | Development of a CHP/DH system for the new town of Parand: An opportunity to mitigate global warming in Middle East. <i>Applied Thermal Engineering</i> , 2013 , 59, 298-308 | 5.8 | 21 |
| 35 | Heat transfer enhancement by acoustic streaming in a closed cylindrical enclosure filled with water. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 60, 230-235 | 4.9 | 32 |
| 34 | Optimum design of dual pressure heat recovery steam generator using non-dimensional parameters based on thermodynamic and thermoeconomic approaches. <i>Applied Thermal Engineering</i> , 2013 , 52, 371-384 | 5.8 | 38 |
| 33 | Effects of continuous sonication on laminar convective heat transfer inside a tube using water-TiO ₂ nanofluid. <i>Experimental Thermal and Fluid Science</i> , 2013 , 48, 8-14 | 3 | 35 |
| 32 | Nonlinear dynamics, bifurcation and performance analysis of an air-handling unit: Disturbance rejection via feedback linearization. <i>Energy and Buildings</i> , 2013 , 56, 150-159 | 7 | 5 |
| 31 | Multivariable robust control of an air-handling unit: A comparison between pole-placement and H _∞ controllers. <i>Energy Conversion and Management</i> , 2012 , 55, 136-148 | 10.6 | 20 |
| 30 | Ultrasonic properties of suspensions of TiO ₂ and Al ₂ O ₃ nanoparticles in water. <i>Powder Technology</i> , 2012 , 217, 171-176 | 5.2 | 39 |
| 29 | Sliding mode control of drum water level in an industrial boiler unit with time varying parameters: A comparison with H _∞ robust control approach. <i>Journal of Process Control</i> , 2012 , 22, 1844-1855 | 3.9 | 41 |
| 28 | Experimental and numerical investigation of nanofluid forced convection inside a wide microchannel heat sink. <i>Applied Thermal Engineering</i> , 2012 , 36, 260-268 | 5.8 | 196 |
| 27 | Heat Transfer in Turbulent Liquid-solid Flow Considering the Interparticle Collision Effect. <i>Petroleum Science and Technology</i> , 2012 , 30, 1296-1306 | 1.4 | |
| 26 | Numerical Simulation of Acoustic Streaming for Nonlinear Standing Ultrasonic Wave in Water Inside Axisymmetric Enclosure. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2012 , 6, 366-382 | 4.5 | 10 |
| 25 | Steady and Unsteady Heat Transfer in a Channel Partially Filled with Porous Media Under Thermal Non-Equilibrium Condition. <i>Transport in Porous Media</i> , 2011 , 86, 177-198 | 3.1 | 23 |
| 24 | Numerical study of nanofluid mixed convection in a horizontal curved tube using two-phase approach. <i>Heat and Mass Transfer</i> , 2011 , 47, 107-118 | 2.2 | 21 |
| 23 | Temperature measurement of a premixed radially symmetric methane flame jet using the Mach-Zehnder Interferometry. <i>Optics and Lasers in Engineering</i> , 2011 , 49, 859-865 | 4.6 | 15 |
| 22 | Nonlinear multivariable control and performance analysis of an air-handling unit. <i>Energy and Buildings</i> , 2011 , 43, 805-813 | 7 | 24 |
| 21 | Eulerian-Eulerian two-phase numerical simulation of nanofluid laminar forced convection in a microchannel. <i>International Journal of Heat and Fluid Flow</i> , 2011 , 32, 107-116 | 2.4 | 192 |
| 20 | Turbulence modulation for gas-particle flow in vertical tube and horizontal channel using four-way Eulerian-Lagrangian approach. <i>International Journal of Heat and Fluid Flow</i> , 2011 , 32, 826-833 | 2.4 | 6 |

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| 19 | 2010, | | 4 |
| 18 | Thermal stochastic collision model in turbulent gas-solid pipe flows. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 1175-1182 | 4.9 | 3 |
| 17 | A comparative study between linear and sliding mode adaptive controllers for a hot gas generator. <i>Applied Thermal Engineering</i> , 2010 , 30, 413-424 | 5.8 | 3 |
| 16 | Prediction of nanofluid convective heat transfer using the dispersion model. <i>International Journal of Thermal Sciences</i> , 2010 , 49, 471-478 | 4.1 | 61 |
| 15 | Robust control of an industrial boiler system; a comparison between two approaches: Sliding mode control & H _∞ technique. <i>Energy Conversion and Management</i> , 2009 , 50, 1401-1410 | 10.6 | 27 |
| 14 | Two Dimensional Hydro Dynamic and Thermal Modeling of a Turbulent Two Phase Stratified Gas-Liquid Pipe Flow 2009 , | | 4 |
| 13 | Efficient design of feedwater heaters network in steam power plants using pinch technology and exergy analysis. <i>International Journal of Energy Research</i> , 2008 , 32, 1-11 | 4.5 | 54 |
| 12 | Thermodynamic design and parametric study of MED-TVC. <i>Desalination</i> , 2008 , 222, 596-604 | 10.3 | 58 |
| 11 | Numerical simulation of fluid bed drying based on two-fluid model and experimental validation. <i>Applied Thermal Engineering</i> , 2007 , 27, 422-429 | 5.8 | 29 |
| 10 | Gas-solid turbulent flow and heat transfer with collision effect in a vertical pipe. <i>International Journal of Thermal Sciences</i> , 2007 , 46, 67-75 | 4.1 | 6 |
| 9 | Prediction of turbulent forced convection of a nanofluid in a tube with uniform heat flux using a two phase approach. <i>International Journal of Heat and Fluid Flow</i> , 2007 , 28, 211-219 | 2.4 | 302 |
| 8 | Inter-particle heat transfer in a riser of gas-solid turbulent flows. <i>Powder Technology</i> , 2005 , 159, 35-45 | 5.2 | 24 |
| 7 | Experimental study of turbulent gas-solid heat transfer at different particles temperature. <i>Experimental Thermal and Fluid Science</i> , 2004 , 28, 655-665 | 3 | 13 |
| 6 | Transient response of dry expansion evaporator in household refrigerators. <i>Applied Thermal Engineering</i> , 2004 , 24, 1465-1480 | 5.8 | 3 |
| 5 | Minimizing capital and operating costs of shell and tube condensers using optimum baffle spacing. <i>Applied Thermal Engineering</i> , 2004 , 24, 2801-2810 | 5.8 | 68 |
| 4 | Thermo-mechanical modeling of turbulent heat transfer in gas-solid flows including particle collisions. <i>International Journal of Heat and Fluid Flow</i> , 2002 , 23, 792-806 | 2.4 | 33 |
| 3 | Modeling of heat transfer in turbulent gas-solid flow. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 1173-1184 | 4.9 | 42 |
| 2 | Two-dimensional mathematical model of a packed bed dryer and experimentation. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2002 , 216, 161-168 | 1.6 | 18 |

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|---|---|-----|----|
| 1 | A general correlation for determining optimum baffle spacing for all types of shell and tube exchangers. <i>International Journal of Heat and Mass Transfer</i> , 1995 , 38, 2501-2506 | 4.9 | 45 |
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