

Majid Saffar-avval

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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	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
89	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
88	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
87	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
86	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
85	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
84	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
83	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
82	Prediction of nanofluid convective heat transfer using the dispersion model. <i>International Journal of Thermal Sciences</i> , 2010 , 49, 471-478	4.1	61
81	Optimization of conjugate heat transfer in wavy walls microchannels. <i>Applied Thermal Engineering</i> , 2015 , 82, 318-328	5.8	59
80	Thermodynamic design and parametric study of MED-TVC. <i>Desalination</i> , 2008 , 222, 596-604	10.3	58
79	A new configuration of bend tubes for compound optimization of heat and fluid flow. <i>Energy</i> , 2013 , 62, 418-424	7.9	54
78	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
77	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
76	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
75	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
74	Sliding mode control of drum water level in an industrial boiler unit with time varying parameters: A comparison with H ₂ -robust control approach. <i>Journal of Process Control</i> , 2012 , 22, 1844-1855	3.9	41

73	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
72	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
71	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
70	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
69	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
68	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
67	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
66	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
65	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
64	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
63	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
62	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
61	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
60	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
59	Nonlinear multivariable control and performance analysis of an air-handling unit. <i>Energy and Buildings</i> , 2011 , 43, 805-813	7	24
58	Inter-particle heat transfer in a riser of gas-solid turbulent flows. <i>Powder Technology</i> , 2005 , 159, 35-45	5.2	24
57	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
56	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

55	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
54	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
53	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
52	Cold start-up condition model for heat recovery steam generators. <i>Applied Thermal Engineering</i> , 2014 , 65, 502-512	5.8	20
51	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
50	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
49	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
48	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
47	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
46	Enhancement of convection heat transfer using EHD conduction method. <i>Experimental Thermal and Fluid Science</i> , 2018 , 93, 108-118	3	16
45	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
44	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
43	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
42	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
41	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
40	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
39	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
38	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

37	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
36	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
35	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
34	Numerical investigation of water surface deformation due to corona discharge. <i>Journal of Electrostatics</i> , 2018 , 96, 151-159	1.7	9
33	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
32	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
31	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
30	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
29	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
28	Forced convection heat transfer enhancement using a coaxial wire-tube corona system. <i>Journal of Electrostatics</i> , 2020 , 103, 103415	1.7	8
27	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
26	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
25	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
24	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
23	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
22	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
21	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
20	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

19	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
18	2010 ,		4
17	Two Dimensional Hydro Dynamic and Thermal Modeling of a Turbulent Two Phase Stratified Gas-Liquid Pipe Flow 2009 ,		4
16	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
15	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
14	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
13	Transient response of dry expansion evaporator in household refrigerators. <i>Applied Thermal Engineering</i> , 2004 , 24, 1465-1480	5.8	3
12	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
11	An Investigation of Flow Across Porous Layer Wrapped Flat Tube Banks. <i>Transport in Porous Media</i> , 2019 , 127, 329-352	3.1	3
10	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
9	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
8	Experimental study of partially metal foam wrapped tube bundles. <i>International Journal of Thermal Sciences</i> , 2021 , 162, 106798	4.1	2
7	Wall Roughness Effect on Heat Transfer Rate of the Turbulent Gas-Solid Flow in Inclined Pipes 2014 ,		1
6	Electrohydrodynamic water desalination: Evaluating the productivity and energy consumption. <i>Desalination</i> , 2021 , 497, 114768	10.3	1
5	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
4	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
3	Enhancement of evaporation from liquid surfaces due to electrohydrodynamic flow: A review. <i>Journal of Electrostatics</i> , 2021 , 114, 103630	1.7	0
2	Heat Transfer in Turbulent Liquid-solid Flow Considering the Interparticle Collision Effect. <i>Petroleum Science and Technology</i> , 2012 , 30, 1296-1306	1.4	

- 1 Numerical simulation of convective heat transfer of non-Newtonian carbon-based nanofluids in U-bend tubes using Buongiorno's model. *Journal of Thermal Analysis and Calorimetry*, **2020**, 1 4.1