

Mostafa Safdari Shadloo

List of Publications by Citations

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104
papers

4,036
citations

39
h-index

60
g-index

112
ext. papers

4,876
ext. citations

3.8
avg, IF

6.76
L-index

#	Paper	IF	Citations
104	Smoothed particle hydrodynamics method for fluid flows, towards industrial applications: Motivations, current state, and challenges. <i>Computers and Fluids</i> , 2016 , 136, 11-34	2.8	231
103	The effects of different nano particles of Al ₂ O ₃ and Ag on the MHD nano fluid flow and heat transfer in a microchannel including slip velocity and temperature jump. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 86, 146-153	3	133
102	Non-uniform heat source/sink and Soret effects on MHD non-Darcian convective flow past a stretching sheet in a micropolar fluid with radiation. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 93, 674-682	4.9	131
101	A review of melting and freezing processes of PCM/nano-PCM and their application in energy storage. <i>Energy</i> , 2020 , 211, 118698	7.9	124
100	Applications of nanofluids containing carbon nanotubes in solar energy systems: A review. <i>Journal of Molecular Liquids</i> , 2020 , 313, 113476	6	120
99	A robust weakly compressible SPH method and its comparison with an incompressible SPH. <i>International Journal for Numerical Methods in Engineering</i> , 2012 , 89, 939-956	2.4	118
98	Synthesized CuFe ₂ O ₄ /SiO ₂ nanocomposites added to water/EG: Evaluation of the thermophysical properties beside sensitivity analysis & EANN. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 1169-1179	4.9	117
97	Entropy Generation in a Circular Tube Heat Exchanger Using Nanofluids: Effects of Different Modeling Approaches. <i>Heat Transfer Engineering</i> , 2017 , 38, 853-866	1.7	102
96	Thermal conductivity prediction of nanofluids containing CuO nanoparticles by using correlation and artificial neural network. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 139, 2679-2689	4.1	101
95	Numerical investigation of Newtonian and non-Newtonian multiphase flows using ISPH method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013 , 254, 99-113	5.7	98
94	A survey on experimental and numerical studies of convection heat transfer of nanofluids inside closed conduits. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401667356	1.2	94
93	Improved Incompressible Smoothed Particle Hydrodynamics method for simulating flow around bluff bodies. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011 , 200, 1008-1020	5.7	93
92	A smoothed particle hydrodynamics approach for numerical simulation of nano-fluid flows. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 1733-1741	4.1	92
91	Three-dimensional lattice Boltzmann simulations of high density ratio two-phase flows in porous media. <i>Computers and Mathematics With Applications</i> , 2018 , 75, 2445-2465	2.7	79
90	Simulation of single mode Rayleigh-Taylor instability by SPH method. <i>Computational Mechanics</i> , 2013 , 51, 699-715	4	75
89	Numerical simulation of compressible flows by lattice Boltzmann method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019 , 75, 167-182	2.3	72
88	Energy and exergy analyses of a nanofluid based solar cooling and hydrogen production combined system. <i>Renewable Energy</i> , 2019 , 141, 1013-1025	8.1	69

87	Study of Two-Phase Newtonian Nanofluid Flow Hybrid with Hafnium Particles under the Effects of Slip. <i>Inventions</i> , 2020 , 5, 6	2.9	69
86	Heat Transfer and Pressure Drop in Fully Developed Turbulent Flows of Graphene Nanoplatelets/Silver/Water Nanofluids. <i>Fluids</i> , 2016 , 1, 20	1.6	69
85	A Smoothed Particle Hydrodynamics approach for thermo-capillary flows. <i>Computers and Fluids</i> , 2018 , 176, 1-19	2.8	65
84	Prediction of viscosity of biodiesel blends using various artificial model and comparison with empirical correlations. <i>Renewable Energy</i> , 2020 , 153, 1296-1306	8.1	59
83	Numerical Investigation of Forced Convective Heat Transfer and Performance Evaluation Criterion of Al ₂ O ₃ /Water Nanofluid Flow inside an Axisymmetric Microchannel. <i>Symmetry</i> , 2020 , 12, 120	2.7	56
82	A review on the properties, preparation, models and stability of hybrid nanofluids to optimize energy consumption. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 144, 1959-1983	4.1	56
81	Enhancement of heat transfer in peristaltic flow in a permeable channel under induced magnetic field using different CNTs. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 140, 1277-1291	4.1	54
80	Performance Evaluation of Nanofluids in an Inclined Ribbed Microchannel for Electronic Cooling Applications 2016 ,		54
79	Effects of assembly pressure on PEM fuel cell performance by taking into accounts electrical and thermal contact resistances. <i>Energy</i> , 2019 , 179, 490-501	7.9	52
78	Viscous fingering phenomena in the early stage of polymer membrane formation. <i>Journal of Fluid Mechanics</i> , 2019 , 864, 97-140	3.7	51
77	Estimation of Pressure Drop of Two-Phase Flow in Horizontal Long Pipes Using Artificial Neural Networks. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020 , 142,	2.6	50
76	Thermal conductivity modeling of nanofluids with ZnO particles by using approaches based on artificial neural network and MARS. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 4261-4272	4.1	50
75	A three-dimensional lattice Boltzmann model for numerical investigation of bubble growth in pool boiling. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 79, 58-66	5.8	49
74	Numerical modeling of Kelvin-Helmholtz instability using smoothed particle hydrodynamics. <i>International Journal for Numerical Methods in Engineering</i> , 2011 , 87, 988-1006	2.4	47
73	Thermal Conductivity Modeling of Nanofluids Contain MgO Particles by Employing Different Approaches. <i>Symmetry</i> , 2020 , 12, 206	2.7	47
72	Three-dimensional numerical investigation of film boiling by the lattice Boltzmann method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 71, 560-574	2.3	46
71	Statistical behavior of supersonic turbulent boundary layers with heat transfer at M _∞ 2. <i>International Journal of Heat and Fluid Flow</i> , 2015 , 53, 113-134	2.4	45
70	A smoothed particle hydrodynamics study on the electrohydrodynamic deformation of a droplet suspended in a neutrally buoyant Newtonian fluid. <i>Computational Mechanics</i> , 2013 , 52, 693-707	4	44

69	A Review on the Control Parameters of Natural Convection in Different Shaped Cavities with and without Nanofluid. <i>Processes</i> , 2020 , 8, 1011	2.9	41
68	Optimization of operating parameters of a polymer exchange membrane electrolyzer. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 6403-6414	6.7	41
67	Numerical simulation of wall bounded and electrically excited Rayleigh-Taylor instability using incompressible smoothed particle hydrodynamics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 460, 60-70	5.1	40
66	Numerical study on the application of biodiesel and bioethanol in a multiple injection diesel engine. <i>Renewable Energy</i> , 2020 , 150, 1019-1029	8.1	40
65	Perturbation threshold and hysteresis associated with the transition to turbulence in sudden expansion pipe flow. <i>International Journal of Heat and Fluid Flow</i> , 2019 , 76, 187-196	2.4	38
64	A parallel high-order compressible flows solver with domain decomposition method in the generalized curvilinear coordinates system. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 2-38	4.5	36
63	Effect of wall temperature in supersonic turbulent boundary layers: A numerical study. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 81, 426-438	4.9	36
62	Significance of Bioconvective and Thermally Dissipation Flow of Viscoelastic Nanoparticles with Activation Energy Features: Novel Biofuels Significance. <i>Symmetry</i> , 2020 , 12, 214	2.7	36
61	Application of support vector machines for accurate prediction of convection heat transfer coefficient of nanofluids through circular pipes. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , 31, 2660-2679	4.5	35
60	Direct Numerical Simulation of flow instabilities over Savonius style wind turbine blades. <i>Renewable Energy</i> , 2017 , 105, 374-385	8.1	34
59	Effect of injection angle, density ratio, and viscosity on droplet formation in a microfluidic T-junction. <i>Theoretical and Applied Mechanics Letters</i> , 2017 , 7, 243-251	1.8	34
58	Assessment of subgrid-scale modeling for large-eddy simulation of a spatially-evolving compressible turbulent boundary layer. <i>Computers and Fluids</i> , 2017 , 151, 144-158	2.8	33
57	Laminar-turbulent transition in supersonic boundary layers with surface heat transfer: A numerical study. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 72, 40-53	2.3	32
56	Thermodynamic analysis of a solar-driven high-temperature steam electrolyzer for clean hydrogen production. <i>Applied Thermal Engineering</i> , 2020 , 172, 115152	5.8	30
55	A new and efficient mechanism for spark ignition engines. <i>Energy Conversion and Management</i> , 2015 , 96, 418-429	10.6	28
54	A new mechanism for periodic bursting of the recirculation region in the flow through a sudden expansion in a circular pipe. <i>Physics of Fluids</i> , 2018 , 30, 031701	4.4	28
53	Boundary layer transition over a concave surface caused by centrifugal instabilities. <i>Computers and Fluids</i> , 2018 , 171, 135-153	2.8	27
52	An artificial intelligence approach to optimization of an off-grid hybrid wind/hydrogen system. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 12725-12738	6.7	27

51	Numerical simulations of multi-phase electro-hydrodynamics flows using a simple incompressible smoothed particle hydrodynamics method. <i>Computers and Mathematics With Applications</i> , 2021 , 81, 772-785	2.7	27
50	Direct numerical simulations of laminar and transitional flows in diverging pipes. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 75-92	4.5	26
49	Numerical Investigation of the Savonius Vertical Axis Wind Turbine and Evaluation of the Effect of the Overlap Parameter in Both Horizontal and Vertical Directions on Its Performance. <i>Symmetry</i> , 2019 , 11, 821	2.7	25
48	The effect of alcohol-gasoline fuel blends on the engines performances and emissions. <i>Fuel</i> , 2020 , 276, 117977	7.1	25
47	Modeling of Subcooled Flow Boiling with Nanoparticles under the Influence of a Magnetic Field. <i>Symmetry</i> , 2019 , 11, 1275	2.7	25
46	Application of homotopy perturbation method to find an analytical solution for magnetohydrodynamic flows of viscoelastic fluids in converging/diverging channels. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2011 , 225, 347-353	1.3	24
45	Control of oblique-type breakdown in a supersonic boundary layer employing streaks. <i>Journal of Fluid Mechanics</i> , 2019 , 873, 1072-1089	3.7	22
44	Numerical investigation of the natural convection film boiling around elliptical tubes. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016 , 70, 707-722	2.3	21
43	Exergy Optimization of a Solar Collector in Flat Plate Shape Equipped with Elliptical Pipes Filled with Turbulent Nanofluid Flow: A Study for Thermal Management. <i>Water (Switzerland)</i> , 2020 , 12, 2294	3	20
42	Feasibility study of wave energy harvesting along the southern coast and islands of Iran. <i>Renewable Energy</i> , 2019 , 135, 502-514	8.1	20
41	Applications of intelligent methods in various types of heat exchangers: a review. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 1837-1848	4.1	20
40	Series solution for heat transfer of continuous stretching sheet immersed in a micropolar fluid in the existence of radiation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013 , 23, 289-304	4.5	19
39	An empirical evaluation of the sea depth effects for various wave characteristics on the performance of a point absorber wave energy converter. <i>Ocean Engineering</i> , 2017 , 137, 13-21	3.9	18
38	Parameters affecting thermal risk through a kinetic model under adiabatic condition: Application to liquid-liquid reaction system. <i>Thermochimica Acta</i> , 2018 , 666, 10-17	2.9	18
37	Convective Bubbly Flow of Water in an Annular Pipe: Role of Total Dissolved Solids on Heat Transfer Characteristics and Bubble Formation. <i>Water (Switzerland)</i> , 2019 , 11, 1566	3	18
36	On the onset of postshock flow instabilities over concave surfaces. <i>Physics of Fluids</i> , 2014 , 26, 076101	4.4	18
35	Effects of Nanoparticle Enhanced Lubricant Films in Thermal Design of Plain Journal Bearings at High Reynolds Numbers. <i>Symmetry</i> , 2019 , 11, 1353	2.7	18
34	Density-based smoothed particle hydrodynamics methods for incompressible flows. <i>Computers and Fluids</i> , 2019 , 185, 22-33	2.8	17

33	Study of horizontal axis tidal turbine performance and investigation on the optimum fixed pitch angle using CFD. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 206-227	4.5	16
32	Application of Artificial Neural Networks for Producing an Estimation of High-Density Polyethylene. <i>Polymers</i> , 2020 , 12,	4.5	14
31	Two-phase flow boiling in a microfluidic channel at high mass flux. <i>Physics of Fluids</i> , 2020 , 32, 093309	4.4	14
30	Using Committee Neural Network for Prediction of Pressure Drop in Two-Phase Microchannels. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5384	2.6	14
29	Numerical study on the performance of a homogeneous charge compression ignition engine fueled with different blends of biodiesel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 2695-2705	4.1	14
28	Photo-catalytic pretreatment of biomass for anaerobic digestion using visible light and Nickle oxide (NiOx) nanoparticles prepared by sol gel method. <i>Renewable Energy</i> , 2020 , 154, 128-135	8.1	12
27	Screening of native hyper-lipid producing microalgae strains for biomass and lipid production. <i>Renewable Energy</i> , 2020 , 160, 1295-1307	8.1	12
26	Experimental assessment of a 100W prototype horizontal axis tidal turbine by towing tank tests. <i>Renewable Energy</i> , 2020 , 155, 172-180	8.1	11
25	Numerical investigation of two-phase secondary Kelvin-Helmholtz instability. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014 , 228, 1913-1924	1.3	10
24	Adiabatic partition effect on natural convection heat transfer inside a square cavity: experimental and numerical studies. <i>Heat and Mass Transfer</i> , 2018 , 54, 291-304	2.2	10
23	Laminar-to-turbulent transition in supersonic boundary layer: Effects of initial perturbation and wall heat transfer. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018 , 73, 583-603	2.3	10
22	Recent Advances in Heat and Mass Transfer. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 1611-1615	1.6	9
21	Large-eddy simulation of a spatially-evolving supersonic turbulent boundary layer at M ₂ . <i>European Journal of Mechanics, B/Fluids</i> , 2018 , 67, 185-197	2.4	8
20	Heat-transfer analysis of a transitional boundary layer over a concave surface with Görtler vortices by means of direct numerical simulations. <i>Physics of Fluids</i> , 2020 , 32, 074111	4.4	8
19	Effect of thermo-mechanical non-equilibrium on the onset of transition in supersonic boundary layers. <i>Heat and Mass Transfer</i> , 2019 , 55, 1849-1861	2.2	7
18	A 3D Simulation of Single-Channel High-Temperature Polymer Exchange Membrane Fuel Cell Performances. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3633	2.6	7
17	Turbulent flow topology in supersonic boundary layer with wall heat transfer. <i>International Journal of Heat and Fluid Flow</i> , 2019 , 78, 108430	2.4	6
16	Fundamental and engineering thermal aspects of energy and environment. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 139, 2395-2398	4.1	6

15	Effects of Homogeneous and Heterogeneous Chemical Features on Oldroyd-B Fluid Flow between Stretching Disks with Velocity and Temperature Boundary Assumptions. <i>Mathematical Problems in Engineering</i> , 2020 , 2020, 1-13	1.1	5
14	PORE-SCALE VISUALIZATION ON POLYMER FLOODING: APPLICATION OF SINGULAR VALUE DECOMPOSITION-BASED IMAGE ANALYSIS METHOD. <i>Journal of Porous Media</i> , 2020 , 23, 531-543	2.9	5
13	Forced convection heat transfer of nanofluids from a horizontal plate with convective boundary condition and a line heat source embedded in porous media. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 141, 2081-2094	4.1	4
12	The effect of alkanolamine mixtures on CO2 absorption efficiency in T-Shaped microchannel. <i>Environmental Technology and Innovation</i> , 2021 , 24, 102006	7	4
11	Maximum Obtainable Energy Harvesting Power from Galloping-Based Piezoelectrics. <i>Mathematical Problems in Engineering</i> , 2020 , 2020, 1-8	1.1	4
10	Numerical Investigation on Forced Hybrid Nanofluid Flow and Heat Transfer Inside a Three-Dimensional Annulus Equipped with Hot and Cold Rods: Using Symmetry Simulation. <i>Symmetry</i> , 2020 , 12, 1873	2.7	4
9	Temperature-Invariant Scaling for Compressible Turbulent Boundary Layers with Wall Heat Transfer. <i>Heat Transfer Engineering</i> , 2018 , 39, 923-932	1.7	3
8	Special Issue on Multiphase and Turbulent Flows in Energy Engineering Applications. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020 , 142,	2.6	2
7	A review on heat transfer characteristics of cryogenic heat pipes. <i>Journal of Thermal Analysis and Calorimetry</i> ,1	4.1	2
6	High-performance computing and machine learning applied in thermal systems analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 1733-1737	4.1	2
5	Simulation of Rayleigh-Taylor instability by Smoothed Particle Hydrodynamics: Advantages and limitations 2012 ,		1
4	Bluff-Body Simulation by SPH Method With Relatively High Reynolds Number in Laminar Flow Regime 2010 ,		1
3	Coupled Electrohydrodynamic and Thermocapillary Instability of Multi-Phase Flows Using an Incompressible Smoothed Particle Hydrodynamics Method. <i>Energies</i> , 2022 , 15, 2576	3.1	1
2	Editorial on the special issue of Heat and Mass Transfer (Springer) after the 3rd Iranian Conference on Heat and Mass Transfer. <i>Heat and Mass Transfer</i> , 2019 , 55, 1847-1847	2.2	
1	A transient study on two phase adiabatic flow over micro circular pin heat sinks. <i>Computers and Mathematics With Applications</i> , 2021 , 81, 811-822	2.7	