

# Mohammad Sadegh Valipour

## List of Publications by Citations

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75  
papers

1,904  
citations

28  
h-index

41  
g-index

77  
ext. papers

2,276  
ext. citations

4.5  
avg, IF

5.78  
L-index

#	Paper	IF	Citations
75	Experimental modeling of vortex tube refrigerator. <i>Applied Thermal Engineering</i> , <b>2003</b> , 23, 1971-1980	5.8	110
74	Enhancing heat transfer in microchannel heat sinks using converging flow passages. <i>Energy Conversion and Management</i> , <b>2015</b> , 92, 244-250	10.6	97
73	Convection-Radiation heat transfer in solar heat exchangers filled with a porous medium: Homotopy perturbation method versus numerical analysis. <i>Renewable Energy</i> , <b>2015</b> , 74, 448-455	8.1	87
72	Enhancement of solar still by reticular porous media: Experimental investigation with exergy and economic analysis. <i>Applied Thermal Engineering</i> , <b>2018</b> , 130, 1341-1348	5.8	81
71	Heat transfer enhancement in parabolic trough collectors: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 92, 198-218	16.2	74
70	Fluid flow and forced convection heat transfer around a solid cylinder wrapped with a porous ring. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 63, 91-100	4.9	63
69	Mathematical modeling of the reaction in an iron ore pellet using a mixture of hydrogen, water vapor, carbon monoxide and carbon dioxide: an isothermal study. <i>Advanced Powder Technology</i> , <b>2006</b> , 17, 277-295	4.6	61
68	Microchannels enhanced by porous materials: Heat transfer enhancement or pressure drop increment?. <i>Energy Conversion and Management</i> , <b>2016</b> , 110, 22-32	10.6	55
67	A review on the application, simulation, and experiment of the electrokinetic mixers. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2018</b> , 126, 108-122	3.7	51
66	Performance enhancement analysis of The flat plate collectors: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 102, 186-204	16.2	51
65	Numerical Simulation of Forced Convective Heat Transfer Past a Square Diamond-Shaped Porous Cylinder. <i>Transport in Porous Media</i> , <b>2014</b> , 102, 207-225	3.1	50
64	Magnetohydrodynamics Flow and Heat Transfer Around a Solid Cylinder Wrapped With a Porous Ring. <i>Journal of Heat Transfer</i> , <b>2014</b> , 136,	1.8	49
63	Experimental modeling of a curved Ranque-Bilsch vortex tube refrigerator. <i>International Journal of Refrigeration</i> , <b>2011</b> , 34, 1109-1116	3.8	48
62	Modeling of multiple noncatalytic gas-solid reactions in a moving bed of porous pellets based on finite volume method. <i>Heat and Mass Transfer</i> , <b>2007</b> , 43, 881-894	2.2	45
61	On the thermally developing forced convection through a porous material under the local thermal non-equilibrium condition: An analytical study. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 92, 815-823	4.9	42
60	Investigation of forced convection through entrance region of a porous-filled microchannel: An analytical study based on the scale analysis. <i>Applied Thermal Engineering</i> , <b>2016</b> , 99, 446-454	5.8	42
59	Stress-jump and Continuity Interface Conditions for a Cylinder Embedded in a Porous Medium. <i>Transport in Porous Media</i> , <b>2015</b> , 107, 171-186	3.1	40

58	Numerical analysis for curved vortex tube optimization. <i>International Communications in Heat and Mass Transfer</i> , <b>2014</b> , 50, 98-107	5.8	40
57	Temperature-dependent conductivity in forced convection of heat exchangers filled with porous media: A perturbation solution. <i>Energy Conversion and Management</i> , <b>2015</b> , 91, 259-266	10.6	39
56	Numerical investigation of fluid flow and heat transfer around a solid circular cylinder utilizing nanofluid. <i>International Communications in Heat and Mass Transfer</i> , <b>2011</b> , 38, 1296-1304	5.8	39
55	Numerical modeling of flow around and through a porous cylinder with diamond cross section. <i>European Journal of Mechanics, B/Fluids</i> , <b>2014</b> , 46, 74-81	2.4	38
54	Perturbation Analysis of the Local Thermal Non-equilibrium Condition in a Fluid-Saturated Porous Medium Bounded by an Iso-thermal Channel. <i>Transport in Porous Media</i> , <b>2014</b> , 102, 139-152	3.1	36
53	Application of Response Surface Methodology to optimization of a standard Ranque-Hilsch vortex tube refrigerator. <i>Applied Thermal Engineering</i> , <b>2014</b> , 67, 545-553	5.8	36
52	A numerical study on convection around a square cylinder using Al <sub>2</sub> O <sub>3</sub> -H <sub>2</sub> O nanofluid. <i>Thermal Science</i> , <b>2014</b> , 18, 1305-1314	1.2	33
51	Combined Conduction-Convection-Radiation Heat Transfer of Slip Flow Inside a Micro-Channel Filled with a Porous Material. <i>Transport in Porous Media</i> , <b>2015</b> , 108, 413-436	3.1	32
50	Numerical analysis of the curvature effects on Ranque-Hilsch vortex tube refrigerators. <i>Applied Thermal Engineering</i> , <b>2014</b> , 65, 176-183	5.8	32
49	Control of wake and vortex shedding behind a porous circular obstacle by exerting an external magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 385, 198-206	2.8	29
48	Numerical study of flow around and through a porous diamond cylinder in different apex angles. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2014</b> , 24, 1504-1518	4.5	29
47	Nanofluids and converging flow passages: A synergetic conjugate-heat-transfer enhancement of micro heat sinks. <i>International Communications in Heat and Mass Transfer</i> , <b>2018</b> , 97, 72-77	5.8	27
46	Energy and exergy analysis of a parabolic trough collector using helically corrugated absorber tube. <i>Renewable Energy</i> , <b>2020</b> , 155, 735-747	8.1	25
45	Thermally developing flow inside a porous-filled channel in the presence of internal heat generation under local thermal non-equilibrium condition: A perturbation analysis. <i>Applied Thermal Engineering</i> , <b>2016</b> , 98, 827-834	5.8	23
44	Parametric analysis of domestic refrigerators using PCM heat exchanger. <i>International Journal of Refrigeration</i> , <b>2017</b> , 83, 1-13	3.8	23
43	CFD simulation of two-phase gas-particle flow in the Midrex shaft furnace: The effect of twin gas injection system on the performance of the reactor. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 103-118	6.7	22
42	Numerical investigation of nonisothermal reduction of hematite using Syngas: the shaft scale study. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2007</b> , 15, 487-507	2	22
41	Numerical investigation of efficiency enhancement in a direct absorption parabolic trough collector occupied by a porous medium and saturated by a nanofluid. <i>Environmental Progress and Sustainable Energy</i> , <b>2019</b> , 38, 727-740	2.5	20

40	Analytical study on post-buckling and nonlinear free vibration analysis of FG beams resting on nonlinear elastic foundation under thermo-mechanical loadings using VIM. <i>Steel and Composite Structures</i> , <b>2014</b> , 17, 753-776		19
39	A Review on the Modeling of Gaseous Reduction of Iron Oxide Pellets. <i>Steel Research International</i> , <b>2020</b> , 91, 1900270	1.6	19
38	Evaluation of solar chimney power plant performance: The effect of artificial roughness of collector. <i>Solar Energy</i> , <b>2019</b> , 188, 175-184	6.8	18
37	Experimental study on the heat transfer enhancement in helically corrugated tubes under the non-uniform heat flux. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 140, 1611-1623	4.1	18
36	Conjugate Heat Transfer Inside Microchannels Filled with Porous Media: An Exact Solution. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2016</b> , 30, 814-824	1.3	15
35	Analytical Study of Heat Flux Splitting in Micro-channels Filled with Porous Media. <i>Transport in Porous Media</i> , <b>2015</b> , 109, 571-587	3.1	14
34	The utilization of conical strip inserts in a parabolic trough collector. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 140, 1625-1631	4.1	14
33	Application of Response Surface Methodology in the Optimization of Magneto-Hydrodynamic Flow Around and Through a Porous Circular Cylinder. <i>Journal of Mechanics</i> , <b>2018</b> , 34, 695-710	1	14
32	Investigation on the effect of different coated absorber plates on the thermal efficiency of the flat-plate solar collector. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 140, 1597-1610	4.1	13
31	Thermal performance of cold panels with phase change materials in a refrigerated truck. <i>International Journal of Refrigeration</i> , <b>2020</b> , 120, 119-126	3.8	12
30	Effects of wall hydrophobicity on the thermohydraulic performance of the microchannels with nanofluids. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 117, 104758	5.8	12
29	Thermal performance analysis of a flat plate solar collector by utilizing helically corrugated risers: An experimental study. <i>Solar Energy</i> , <b>2020</b> , 207, 235-246	6.8	11
28	Numerical modelling of non-isothermal reduction of porous wustite pellet with syngas. <i>Ironmaking and Steelmaking</i> , <b>2009</b> , 36, 91-96	1.3	11
27	Numerical Investigation of Forced Convective Heat Transfer Around and Through a Porous Circular Cylinder With Internal Heat Generation. <i>Journal of Heat Transfer</i> , <b>2012</b> , 134,	1.8	11
26	Mathematical modelling of wustite pellet reduction: grain model in comparison with USCM. <i>Ironmaking and Steelmaking</i> , <b>2016</b> , 43, 418-425	1.3	10
25	Numerical Investigation of Magnetic Effect on Forced Convection Around Two-Dimensional Circular Cylinder Embedded in Porous Media. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2012</b> , 6, 395-402	4.5	9
24	Experimental Investigation of Water Droplet Impact on the Electrospun Superhydrophobic Cylindrical Glass: Contact Time, Maximum Spreading Factor, and Splash Threshold. <i>Langmuir</i> , <b>2020</b> , 36, 13498-13508	4	9
23	Magnetohydrodynamic effects on flow structures and heat transfer over two cylinders wrapped with a porous layer in side. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2016</b> , 26, 1416-1432	4.5	9

22	A new design of induced-charge electrokinetic micromixer with corrugated walls and conductive plate installation. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 114, 104564	5.8	8
21	Numerical Analysis of Complicated Heat and Mass Transfer inside a Wustite Pellet during Reducing to Sponge Iron by H <sub>2</sub> and CO Gaseous Mixture. <i>Journal of Iron and Steel Research International</i> , <b>2016</b> , 23, 1142-1150	1.2	7
20	Heat and fluid flow through a helical annulus enhanced by a porous material: A perturbation study. <i>Applied Thermal Engineering</i> , <b>2017</b> , 112, 1566-1574	5.8	7
19	Modelling of non-catalytic gas/solid reactions [multicomponent non-equimolar counter diffusion of gaseous phase. <i>Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy</i> , <b>2009</b> , 118, 85-97		7
18	Hydrodynamic analysis of the nanofluids flow in a microchannel with hydrophobic and superhydrophobic surfaces. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2021</b> , 124, 266-275	5.3	7
17	Optimization of Turbine Blade Cooling Using Combined Cooling Techniques. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2014</b> , 8, 462-475	4.5	6
16	The thermo-hydraulic performance of a parabolic trough collector with helically corrugated tube. <i>Sustainable Energy Technologies and Assessments</i> , <b>2021</b> , 44, 101013	4.7	6
15	An experimental investigation on the simultaneous effects of helically corrugated receiver and nanofluids in a parabolic trough collector. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2021</b> , 128, 261-261	5.3	6
14	Thermal behavior of a flat plate solar collector with simultaneous use of helically heat collecting tubes and phase change materials. <i>Sustainable Energy Technologies and Assessments</i> , <b>2021</b> , 46, 101279	4.7	5
13	Numerical investigation on flow behavior and energy separation in a micro-scale vortex tube. <i>Thermal Science</i> , <b>2015</b> , 19, 619-630	1.2	4
12	Investigation of airflow at different activity conditions in a realistic model of human upper respiratory tract. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2021</b> , 24, 173-187	2.1	4
11	Numerical investigation of a small scale sloped solar chimney power plant. <i>Renewable Energy</i> , <b>2021</b> ,	8.1	3
10	Numerical investigation of the effects of immersion on the efficiency of a tidal helical turbine. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2019</b> , 233, 4299-4310	1.3	2
9	Assessment of the numerical and experimental performance of screw tidal turbines. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , <b>2018</b> , 232, 912-925	1.6	1
8	Fabrication of Poly Vinyl Acetate (PVAc) Nanofibers Using DMAC Solvent: Effect of Molecular Weight, Optimization by Taguchi DoE. <i>International Polymer Processing</i> , <b>2020</b> , 35, 257-267	1	1
7	A review on solar-powered cooling systems coupled with parabolic dish collector and linear Fresnel reflector.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	1
6	Porous Medium Applications in Internal Combustion Engines: A Review. <i>Transport in Porous Media</i> , <b>2022</b> , 141, 799	3.1	0
5	An entropy production analysis for electroosmotic flow and convective heat transfer: a numerical investigation. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 145, 1877-1889	4.1	0

4	Heat transfer intensification in microchannel by induced-charge electrokinetic phenomenon: a numerical study. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 145, 1849-1861	4.1	○
3	Investigation on the Performance of a solar chimney-flare gas hybrid system. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 52, 102279	4.7	○
2	Numerical investigation of a sloped solar chimney power plant: a three-dimensional study. <i>Chemical Engineering Communications</i> , 1-17	2.2	
1	Two-phase modeling of low-Reynolds turbulent heat convection of Al <sub>2</sub> O <sub>3</sub> -water nanofluid in a 2-D helically corrugated channel. <i>Chemical Engineering Communications</i> , 1-21	2.2	