

Mohammad Sadegh Valipour

List of Publications by Year in descending order

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77
papers

2,698
citations

126708

33
h-index

197535

49
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77
all docs

77
docs citations

77
times ranked

1592
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental modeling of vortex tube refrigerator. <i>Applied Thermal Engineering</i> , 2003, 23, 1971-1980.	3.0	141
2	Enhancing heat transfer in microchannel heat sinks using converging flow passages. <i>Energy Conversion and Management</i> , 2015, 92, 244-250.	4.4	126
3	Enhancement of solar still by reticular porous media: Experimental investigation with exergy and economic analysis. <i>Applied Thermal Engineering</i> , 2018, 130, 1341-1348.	3.0	122
4	Heat transfer enhancement in parabolic trough collectors: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 92, 198-218.	8.2	115
5	Convection–radiation heat transfer in solar heat exchangers filled with a porous medium: Homotopy perturbation method versus numerical analysis. <i>Renewable Energy</i> , 2015, 74, 448-455.	4.3	94
6	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> , 2006, 17, 277-295.	2.0	93
7	A review on the application, simulation, and experiment of the electrokinetic mixers. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 126, 108-122.	1.8	78
8	Performance enhancement analysis of The flat plate collectors: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 102, 186-204.	8.2	77
9	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> , 2013, 63, 91-100.	2.5	75
10	Microchannels enhanced by porous materials: Heat transfer enhancement or pressure drop increment?. <i>Energy Conversion and Management</i> , 2016, 110, 22-32.	4.4	67
11	Numerical Simulation of Forced Convective Heat Transfer Past a Square Diamond-Shaped Porous Cylinder. <i>Transport in Porous Media</i> , 2014, 102, 207-225.	1.2	62
12	Experimental modeling of a curved Ranque–Hilsch vortex tube refrigerator. <i>International Journal of Refrigeration</i> , 2011, 34, 1109-1116.	1.8	59
13	Numerical investigation of fluid flow and heat transfer around a solid circular cylinder utilizing nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2011, 38, 1296-1304.	2.9	57
14	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> , 2016, 92, 815-823.	2.5	57
15	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> , 2007, 43, 881-894.	1.2	56
16	Magnetohydrodynamics Flow and Heat Transfer Around a Solid Cylinder Wrapped With a Porous Ring. <i>Journal of Heat Transfer</i> , 2014, 136, .	1.2	55
17	Energy and exergy analysis of a parabolic trough collector using helically corrugated absorber tube. <i>Renewable Energy</i> , 2020, 155, 735-747.	4.3	55
18	Numerical modeling of flow around and through a porous cylinder with diamond cross section. <i>European Journal of Mechanics, B/Fluids</i> , 2014, 46, 74-81.	1.2	51

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19	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> , 2016, 99, 446-454.	3.0	49
20	Numerical analysis for curved vortex tube optimization. <i>International Communications in Heat and Mass Transfer</i> , 2014, 50, 98-107.	2.9	46
21	Stress-jump and Continuity Interface Conditions for a Cylinder Embedded in a Porous Medium. <i>Transport in Porous Media</i> , 2015, 107, 171-186.	1.2	46
22	A Review on the Modeling of Gaseous Reduction of Iron Oxide Pellets. <i>Steel Research International</i> , 2020, 91, 1900270.	1.0	46
23	Temperature-dependent conductivity in forced convection of heat exchangers filled with porous media: A perturbation solution. <i>Energy Conversion and Management</i> , 2015, 91, 259-266.	4.4	43
24	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> , 2017, 42, 103-118.	3.8	43
25	Application of Response Surface Methodology to optimization of a standard Ranque-Hilsch vortex tube refrigerator. <i>Applied Thermal Engineering</i> , 2014, 67, 545-553.	3.0	42
26	A numerical study on convection around a square cylinder using Al ₂ O ₃ -H ₂ O nanofluid. <i>Thermal Science</i> , 2014, 18, 1305-1314.	0.5	40
27	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> , 2014, 102, 139-152.	1.2	39
28	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> , 2015, 385, 198-206.	1.0	39
29	Numerical analysis of the curvature effects on Ranque-Hilsch vortex tube refrigerators. <i>Applied Thermal Engineering</i> , 2014, 65, 176-183.	3.0	37
30	Parametric analysis of domestic refrigerators using PCM heat exchanger. <i>International Journal of Refrigeration</i> , 2017, 83, 1-13.	1.8	37
31	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> , 2020, 140, 1611-1623.	2.0	35
32	Combined Conduction-Convection-Radiation Heat Transfer of Slip Flow Inside a Micro-Channel Filled with a Porous Material. <i>Transport in Porous Media</i> , 2015, 108, 413-436.	1.2	34
33	Nanofluids and converging flow passages: A synergetic conjugate-heat-transfer enhancement of micro heat sinks. <i>International Communications in Heat and Mass Transfer</i> , 2018, 97, 72-77.	2.9	34
34	Evaluation of solar chimney power plant performance: The effect of artificial roughness of collector. <i>Solar Energy</i> , 2019, 188, 175-184.	2.9	34
35	Numerical investigation of nonisothermal reduction of hematite using Syngas: the shaft scale study. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2007, 15, 487-507.	0.8	33
36	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> , 2019, 38, 727-740.	1.3	33

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37	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> , 2014, 24, 1504-1518.	1.6	32
38	Thermal performance analysis of a flat plate solar collector by utilizing helically corrugated risers: An experimental study. <i>Solar Energy</i> , 2020, 207, 235-246.	2.9	32
39	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> , 2020, 140, 1597-1610.	2.0	31
40	Thermal performance of cold panels with phase change materials in a refrigerated truck. <i>International Journal of Refrigeration</i> , 2020, 120, 119-126.	1.8	29
41	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> , 2016, 98, 827-834.	3.0	28
42	Experimental Investigation of Water Droplet Impact on the Electrospun Superhydrophobic Cylindrical Glass: Contact Time, Maximum Spreading Factor, and Splash Threshold. <i>Langmuir</i> , 2020, 36, 13498-13508.	1.6	27
43	Effects of wall hydrophobicity on the thermohydraulic performance of the microchannels with nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2020, 117, 104758.	2.9	24
44	Application of Response Surface Methodology in the Optimization of Magneto-Hydrodynamic Flow Around and Through a Porous Circular Cylinder. <i>Journal of Mechanics</i> , 2018, 34, 695-710.	0.7	22
45	The utilization of conical strip inserts in a parabolic trough collector. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1625-1631.	2.0	22
46	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> , 2014, 17, 753-776.	1.3	20
47	A new design of induced-charge electrokinetic micromixer with corrugated walls and conductive plate installation. <i>International Communications in Heat and Mass Transfer</i> , 2020, 114, 104564.	2.9	18
48	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> , 2021, 128, 261-275.	2.7	18
49	Hydrodynamic analysis of the nanofluids flow in a microchannel with hydrophobic and superhydrophobic surfaces. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 124, 266-275.	2.7	18
50	Conjugate Heat Transfer Inside Microchannels Filled with Porous Media: An Exact Solution. <i>Journal of Thermophysics and Heat Transfer</i> , 2016, 30, 814-824.	0.9	17
51	A review on solar-powered cooling systems coupled with parabolic dish collector and linear Fresnel reflector. <i>Environmental Science and Pollution Research</i> , 2022, 29, 42616-42646.	2.7	17
52	Analytical Study of Heat Flux Splitting in Micro-channels Filled with Porous Media. <i>Transport in Porous Media</i> , 2015, 109, 571-587.	1.2	16
53	Numerical investigation of a small scale sloped solar chimney power plant. <i>Renewable Energy</i> , 2022, 183, 1-11.	4.3	16
54	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> , 2021, 24, 173-187.	0.9	15

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55	Mathematical modelling of wustite pellet reduction: grain model in comparison with USCM. Ironmaking and Steelmaking, 2016, 43, 418-425.	1.1	14
56	Numerical modelling of non-isothermal reduction of porous wustite pellet with syngas. Ironmaking and Steelmaking, 2009, 36, 91-96.	1.1	13
57	Numerical Investigation of Forced Convective Heat Transfer Around and Through a Porous Circular Cylinder With Internal Heat Generation. Journal of Heat Transfer, 2012, 134, .	1.2	13
58	The thermo-hydraulic performance of a parabolic trough collector with helically corrugated tube. Sustainable Energy Technologies and Assessments, 2021, 44, 101013.	1.7	13
59	Magnetohydrodynamic effects on flow structures and heat transfer over two cylinders wrapped with a porous layer in side. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 1416-1432.	1.6	11
60	Numerical Analysis of Complicated Heat and Mass Transfer inside a Wustite Pellet during Reducing to Sponge Iron by H ₂ and CO Gaseous Mixture. Journal of Iron and Steel Research International, 2016, 23, 1142-1150.	1.4	10
61	Modelling of non-catalytic gas-solid reactions " multicomponent non-equimolar counter diffusion of gaseous phase. Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy, 2009, 118, 85-97.	0.6	9
62	Numerical Investigation of Magnetic Effect on Forced Convection Around Two-Dimensional Circular Cylinder Embedded in Porous Media. Engineering Applications of Computational Fluid Mechanics, 2012, 6, 395-402.	1.5	9
63	Thermal behavior of a flat plate solar collector with simultaneous use of helically heat collecting tubes and phase change materials. Sustainable Energy Technologies and Assessments, 2021, 46, 101279.	1.7	9
64	Optimization of Turbine Blade Cooling Using Combined Cooling Techniques. Engineering Applications of Computational Fluid Mechanics, 2014, 8, 462-475.	1.5	8
65	Heat and fluid flow through a helical annulus enhanced by a porous material: A perturbation study. Applied Thermal Engineering, 2017, 112, 1566-1574.	3.0	8
66	Numerical investigation on flow behavior and energy separation in a micro-scale vortex tube. Thermal Science, 2015, 19, 619-630.	0.5	7
67	Numerical investigation of the effects of immersion on the efficiency of a tidal helical turbine. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 4299-4310.	1.1	4
68	An entropy production analysis for electroosmotic flow and convective heat transfer: a numerical investigation. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1877-1889.	2.0	4
69	Porous Medium Applications in Internal Combustion Engines: A Review. Transport in Porous Media, 2022, 141, 799-824.	1.2	4
70	TRANSITION AND LAMINAR FLOWS IN A REALISTIC GEOMETRY OF HUMAN UPPER AIRWAY. Journal of Mechanics in Medicine and Biology, 2022, 22, .	0.3	3
71	Assessment of the numerical and experimental performance of screw tidal turbines. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2018, 232, 912-925.	0.8	2
72	Heat transfer intensification in microchannel by induced-charge electrokinetic phenomenon: a numerical study. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1849-1861.	2.0	2

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73	Investigation on the Performance of a solar chimney-flare gas hybrid system. Sustainable Energy Technologies and Assessments, 2022, 52, 102279.	1.7	2
74	Fabrication of Poly Vinyl Acetate (PVAc) Nanofibers Using DMAC Solvent: Effect of Molecular Weight, Optimization by Taguchi DoE. International Polymer Processing, 2020, 35, 257-267.	0.3	1
75	Numerical modeling of ground water flow and contaminant transport in a saturated porous medium. , 2012, , .		0
76	Numerical investigation of a sloped solar chimney power plant: a three-dimensional study. Chemical Engineering Communications, 0, , 1-17.	1.5	0
77	Two-phase modeling of low-Reynolds turbulent heat convection of Al ₂ O ₃ -water nanofluid in a 2-D helically corrugated channel. Chemical Engineering Communications, 0, , 1-21.	1.5	0