Saeed Aghakhani

List of Publications by Year
in descending order

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23 papers	2,143 citations	361413 20 h-index	642732 23 g-index
23 all docs	23 docs citations	23 times ranked	1043 citing authors

#	Article	IF	Citations
1	Numerical Investigation of Natural Convection and Irreversibilities between Two Inclined Concentric Cylinders in Presence of Uniform Magnetic Field and Radiation. Heat Transfer Engineering, 2022, 43, 937-957.	1.9	63
2	Numerical study of the cooling effect of a PVT on its thermal and electrical efficiency using a Cu tube of different diameters and lengths. Sustainable Energy Technologies and Assessments, 2022, 52, 102044.	2.7	12
3	Phase change materials: Agents towards energy performance improvement in inclined, vertical, and horizontal walls of residential buildings. Journal of Building Engineering, 2022, 56, 104656.	3.4	13
4	Numerical and experimental study of thermal efficiency of a spiral flat plate solar collector by changing the spiral diameter, flow rate, and pipe diameter. Sustainable Energy Technologies and Assessments, 2022, 53, 102353.	2.7	7
5	A techno-economic investigation of 2D and 3D configurations of fins and their effects on heat sink efficiency of MHD hybrid nanofluid with slip and non-slip flow. International Journal of Mechanical Sciences, 2021, 189, 105975.	6.7	111
6	A review of melting and freezing processes of PCM/nano-PCM and their application in energy storage. Energy, 2020, 211, 118698.	8.8	271
7	A Review on the Control Parameters of Natural Convection in Different Shaped Cavities with and without Nanofluid. Processes, 2020, 8, 1011.	2.8	80
8	Multivariate optimization and sensitivity analyses of relevant parameters on efficiency of scraped surface heat exchanger. Applied Thermal Engineering, 2020, 178, 115445.	6.0	31
9	Free convection/radiation and entropy generation analyses for nanofluid of inclined square enclosure with uniform magnetic field. Journal of Thermal Analysis and Calorimetry, 2020, 141, 635-648.	3.6	47
10	Free convection and entropy generation of a nanofluid in a tilted triangular cavity exposed to a magnetic field with sinusoidal wall temperature distribution considering radiation effects. International Communications in Heat and Mass Transfer, 2020, 112, 104507.	5.6	90
11	Natural convective heat transfer and entropy generation of alumina/water nanofluid in a tilted enclosure with an elliptic constant temperature: Applying magnetic field and radiation effects. International Journal of Mechanical Sciences, 2020, 174, 105470.	6.7	130
12	Managment of natural convection of nanofluids inside a square enclosure by different nano powder shapes in presence of Fins with different shapes and magnetic field effect. Advanced Powder Technology, 2020, 31, 2759-2777.	4.1	56
13	Influence of a membrane on nanofluid heat transfer and irreversibilities inside a cavity with two constant-temperature semicircular sources on the lower wall: applicable to solar collectors. Physica Scripta, 2020, 95, 085702.	2.5	61
14	Investigation of the entropy generation during natural convection of Newtonian and non-Newtonian fluids inside the L-shaped cavity subjected to magnetic field: application of lattice Boltzmann method. European Physical Journal Plus, 2020, 135, 1.	2.6	45
15	An updated review on application of nanofluids in heat exchangers for saving energy. Energy Conversion and Management, 2019, 198, 111886.	9.2	293
16	Effect of magnetic field on mixed convection and entropy generation of hybrid nanofluid in an inclined enclosure: Sensitivity analysis and optimization. European Physical Journal Plus, 2019, 134, 1.	2.6	91
17	Entropy generation of boehmite alumina nanofluid flow through a minichannel heat exchanger considering nanoparticle shape effect. Physica A: Statistical Mechanics and Its Applications, 2019, 521, 724-736.	2.6	103
18	Effect of replacing nanofluid instead of water on heat transfer in a channel with extended surfaces under a magnetic field. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1249-1271.	2.8	63

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19	Effects of magnetic field on the convective heat transfer rate and entropy generation of a nanofluid in an inclined square cavity equipped with a conductor fin: Considering the radiation effect. International Journal of Heat and Mass Transfer, 2019, 133, 256-267.	4.8	98
20	Effect of alumina nano-powder on the convection and the entropy generation of water inside an inclined square cavity subjected to a magnetic field: Uniform and non-uniform temperature boundary conditions. International Journal of Mechanical Sciences, 2019, 152, 99-117.	6.7	78
21	Investigation of free convection heat transfer and entropy generation of nanofluid flow inside a cavity affected by magnetic field and thermal radiation. Journal of Thermal Analysis and Calorimetry, 2019, 137, 997-1019.	3.6	128
22	Numerical investigation of heat transfer in a power-law non-Newtonian fluid in a C-Shaped cavity with magnetic field effect using finite difference lattice Boltzmann method. Computers and Fluids, 2018, 176, 51-67.	2.5	132
23	A comprehensive review on rheological behavior of mono and hybrid nanofluids: Effective parameters and predictive correlations. International Journal of Heat and Mass Transfer, 2018, 127, 997-1012.	4.8	140