Seyyed Masoud Seyyedi

List of Publications by Year
in descending order

36 papers	1,628 citations	236612 25 h-index	360668 35 g-index
37 all docs	37 docs citations	37 times ranked	785 citing authors

#	Article	IF	Citations
1	Second law analysis of magneto-natural convection in a nanofluid filled wavy-hexagonal porous enclosure. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 4811-4836.	1.6	112
2	Investigation of natural convection of magnetic nanofluid in an enclosure with a porous medium considering Brownian motion. Case Studies in Thermal Engineering, 2019, 14, 100502.	2.8	105
3	CVFEM analysis for Fe3O4â€“H2O nanofluid in an annulus subject to thermal radiation. International Journal of Heat and Mass Transfer, 2019, 132, 473-483.	2.5	105
4	Investigation of magneto-hydrodynamic fluid squeezed between two parallel disks by considering Joule heating, thermal radiation, and adding different nanoparticles. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 659-680.	1.6	104
5	A modified Fourier approach for analysis of nanofluid heat generation within a semi-circular enclosure subjected to MFD viscosity. International Communications in Heat and Mass Transfer, 2020, 111, 104430.	2.9	83
6	Magnetohydrodynamic natural convection and entropy generation analyses inside a nanofluid-filled incinerator-shaped porous cavity with wavy heater block. Journal of Thermal Analysis and Calorimetry, 2020, 141, 2033-2045.	2.0	82
7	Entropy generation and economic analyses in a nanofluid filled L-shaped enclosure subjected to an oriented magnetic field. Applied Thermal Engineering, 2020, 168, 114789.	3.0	78
8	Investigation of entropy generation in a square inclined cavity using control volume finite element method with aided quadratic Lagrange interpolation functions. International Communications in Heat and Mass Transfer, 2020, 110, 104398.	2.9	69
9	The influence of different shapes of nanoparticle on Cuâ€“H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e622" altimg="si3.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>O nanofluids in a partially heated irregular wavy enclosure. Physica A: Statistical Mechanics and Its Applications, 2020, 540, 123034.	1.2	67
10	A computational framework for natural convective hydromagnetic flow via inclined cavity: An analysis subjected to entropy generation. Journal of Molecular Liquids, 2019, 287, 110863.	2.3	66
11	Entropy generation in a nanofluid-filled semi-annulus cavity by considering the shape of nanoparticles. Journal of Thermal Analysis and Calorimetry, 2019, 138, 1607-1621.	2.0	60
12	Radiative nanofluid flow and heat transfer between parallel disks with penetrable and stretchable walls considering Cattaneoâ€“Christov heat flux model. Heat Transfer - Asian Research, 2018, 47, 735-753.	2.8	56
13	Numerical analysis of entropy generation of a nanofluid in a semi-annulus porous enclosure with different nanoparticle shapes in the presence of a magnetic field. European Physical Journal Plus, 2019, 134, 1.	1.2	53
14	A new approach for optimization of thermal power plant based on the exergoeconomic analysis and structural optimization method: Application to the CGAM problem. Energy Conversion and Management, 2010, 51, 2202-2211.	4.4	48
15	Magneto-fluid dynamic and second law analysis in a hot porous cavity filled by nanofluid and nano-encapsulated phase change material suspension with different layout of cooling channels. Journal of Energy Storage, 2020, 31, 101720.	3.9	45
16	Effects of homogeneous-heterogeneous reactions and thermal radiation on magneto-hydrodynamic Cu-water nanofluid flow over an expanding flat plate with non-uniform heat source. Journal of Central South University, 2019, 26, 1161-1171.	1.2	44
17	Numerical simulation for thermal radiation and porous medium characteristics in flow of CuO-H2O nanofluid. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	43
18	Analysis of a single-phase natural circulation loop with hybrid-nanofluid. International Communications in Heat and Mass Transfer, 2020, 112, 104498.	2.9	43

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19	Numerical and experimental analysis of a rectangular single-phase natural circulation loop with asymmetric heater position. International Journal of Heat and Mass Transfer, 2019, 130, 1343-1357.	2.5	42
20	A theoretical nanofluid analysis exhibiting hydromagnetics characteristics employing CVFEM. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	42
21	A new criterion for the allocation of residues cost in exergoeconomic analysis of energy systems. Energy, 2010, 35, 3474-3482.	4.5	39
22	On the entropy generation for a porous enclosure subject to a magnetic field: Different orientations of cardioid geometry. International Communications in Heat and Mass Transfer, 2020, 116, 104712.	2.9	35
23	Simulation of Fe₃O₄-H₂O nanoliquid in a triangular enclosure subjected to Cattaneoâ€“Christov theory of heat conduction. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 4430-4444.	1.6	33
24	Simulation of the dynamic behavior of a rectangular single-phase natural circulation vertical loop with asymmetric heater. International Journal of Heat and Mass Transfer, 2019, 139, 974-981.	2.5	32
25	Effect of Inclined Magnetic Field on the Entropy Generation in an Annulus Filled with NEPCM Suspension. Mathematical Problems in Engineering, 2021, 2021, 1-14.	0.6	29
26	Thermoenvironomic optimization of gas turbine cycles with air preheat. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2011, 225, 12-23.	0.8	17
27	Forced reflood modeling in a 2â€Ã—â€2 rod bundle with a 90% partially blocked region. Annals of Nuclear Energy, 2019, 131, 425-432.	0.9	17
28	Impact of Fusion Temperature on Hydrothermal Features of Flow within an Annulus Loaded with Nanoencapsulated Phase Change Materials (NEPCMs) during Natural Convection Process. Mathematical Problems in Engineering, 2021, 2021, 1-14.	0.6	16
29	Exergy and exergoeconomic analyses of a novel integration of a 1000â€MW pressurized water reactor power plant and a gas turbine cycle through a superheater. Annals of Nuclear Energy, 2018, 115, 161-172.	0.9	15
30	Magneto-turbulent natural convection and entropy generation analyses in liquid sodium-filled cavity partially heated and cooled from sidewalls with circular blocks. International Communications in Heat and Mass Transfer, 2022, 134, 106053.	2.9	15
31	A new iterative approach to the optimization of thermal energy systems: Application to the regenerative Brayton cycle. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2010, 224, 313-327.	0.8	9
32	Investigation of sedimentation process of soluble spherical particles in a non-Newtonian medium. Journal of Colloid and Interface Science, 2018, 530, 532-537.	5.0	9
33	Entropy generation in concentric annuli of 400ÂkV gas-insulated transmission line. Thermal Science and Engineering Progress, 2020, 19, 100614.	1.3	7
34	Improved velocity and temperature profiles for integral solution in the laminar boundary layer flow on a semi-infinite flat plate. Heat Transfer - Asian Research, 2019, 48, 182-215.	2.8	2
35	An experimental and numerical study on the vibration characteristics of glass fiber composite sandwich panel with lattice cores. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 0, , 146442072210758.	0.7	2
36	Experimental and numerical investigation of highâ€velocity impact effects on composite sandwich panel with Mâ€shaped core reinforced by <scp>nanoâ€SiO₂</scp>. Polymer Composites, 2022, 43, 3809-3822.	2.3	2