

# Mehdi Hashemi-Tilehnoee

## List of Publications by Citations

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53  
papers

1,095  
citations

20  
h-index

32  
g-index

56  
ext. papers

1,374  
ext. citations

3.2  
avg. IF

5.34  
L-index

#	Paper	IF	Citations
53	CVFEM analysis for Fe <sub>3</sub> O <sub>4</sub> -H <sub>2</sub> O nanofluid in an annulus subject to thermal radiation. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 132, 473-483	4.9	89
52	A modified Fourier approach for analysis of nanofluid heat generation within a semi-circular enclosure subjected to MFD viscosity. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 111, 104430	5.8	69
51	Investigation of natural convection of magnetic nanofluid in an enclosure with a porous medium considering Brownian motion. <i>Case Studies in Thermal Engineering</i> , <b>2019</b> , 14, 100502	5.6	64
50	Second law analysis of magneto-natural convection in a nanofluid filled wavy-hexagonal porous enclosure. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2020</b> , 30, 4811-4836	4.5	56
49	Investigation of entropy generation in a square inclined cavity using control volume finite element method with aided quadratic Lagrange interpolation functions. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 110, 104398	5.8	54
48	Investigation of magneto-hydrodynamic fluid squeezed between two parallel disks by considering Joule heating, thermal radiation, and adding different nanoparticles. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 30, 659-680	4.5	51
47	A computational framework for natural convective hydromagnetic flow via inclined cavity: An analysis subjected to entropy generation. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 287, 110863	6	50
46	Entropy generation and economic analyses in a nanofluid filled L-shaped enclosure subjected to an oriented magnetic field. <i>Applied Thermal Engineering</i> , <b>2020</b> , 168, 114789	5.8	49
45	The influence of different shapes of nanoparticle on Cu-H <sub>2</sub> O nanofluids in a partially heated irregular wavy enclosure. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2020</b> , 540, 123034	3.3	49
44	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. <i>European Physical Journal Plus</i> , <b>2019</b> , 134, 1	3.1	45
43	Magnetohydrodynamic natural convection and entropy generation analyses inside a nanofluid-filled incinerator-shaped porous cavity with wavy heater block. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 141, 2033-2045	4.1	45
42	Numerical simulation for thermal radiation and porous medium characteristics in flow of CuO-H <sub>2</sub> O nanofluid. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2019</b> , 41, 1	2	39
41	Entropy generation in a nanofluid-filled semi-annulus cavity by considering the shape of nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 138, 1607-1621	4.1	39
40	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. <i>Journal of Central South University</i> , <b>2019</b> , 26, 1161-1171	2.1	37
39	Numerical and experimental analysis of a rectangular single-phase natural circulation loop with asymmetric heater position. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 130, 1343-1357	4.9	35
38	Simulation of a control rod ejection accident in a VVER-1000/V446 using RELAP5/Mod3.2. <i>Annals of Nuclear Energy</i> , <b>2012</b> , 45, 106-114	1.7	32
37	Simulation of Fe <sub>3</sub> O <sub>4</sub> -H <sub>2</sub> O nanofluid in a triangular enclosure subjected to Cattaneo-Christov theory of heat conduction. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 29, 4430-4444	4.5	31

36	Analysis of a single-phase natural circulation loop with hybrid-nanofluid. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 112, 104498	5.8	29
35	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. <i>Journal of Energy Storage</i> , <b>2020</b> , 31, 101720	7.8	24
34	Simulation of the dynamic behavior of a rectangular single-phase natural circulation vertical loop with asymmetric heater. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 139, 974-981	4.9	20
33	A theoretical nanofluid analysis exhibiting hydromagnetics characteristics employing CVFEM. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2020</b> , 42, 1	2	18
32	Effect of the baffle on the performance of a micro pin fin heat sink. <i>Thermal Science and Engineering Progress</i> , <b>2019</b> , 14, 100417	3.6	14
31	Forced reflood modeling in a 2 $\times$ 2 rod bundle with a 90% partially blocked region. <i>Annals of Nuclear Energy</i> , <b>2019</b> , 131, 425-432	1.7	12
30	Exergy and exergoeconomic analyses of a novel integration of a 1000 MW pressurized water reactor power plant and a gas turbine cycle through a superheater. <i>Annals of Nuclear Energy</i> , <b>2018</b> , 115, 161-172	1.7	12
29	Thermal-hydraulic analysis of VVER-1000 residual heat removal system using RELAP5 code, an evaluation at the boundary of reactor repair mode. <i>AEJ - Alexandria Engineering Journal</i> , <b>2018</b> , 57, 1249-1259	6.1	12
28	HAZOP-study on heavy water research reactor primary cooling system. <i>Annals of Nuclear Energy</i> , <b>2010</b> , 37, 428-433	1.7	12
27	Sub-channel analysis of 8 $\times$ 8 and 9 $\times$ 9 BWR fuel assemblies with different two-phase flow models. <i>Annals of Nuclear Energy</i> , <b>2013</b> , 62, 264-268	1.7	11
26	Numerical solution of the point reactor kinetics equations with fuel burn-up and temperature feedback. <i>Annals of Nuclear Energy</i> , <b>2010</b> , 37, 265-269	1.7	11
25	Effect of Inclined Magnetic Field on the Entropy Generation in an Annulus Filled with NEPCM Suspension. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-14	1.1	11
24	Benchmarking a sub-channel program based on a drift-flux model with 8 $\times$ 8 NUPEC BWR rod bundle. <i>Annals of Nuclear Energy</i> , <b>2013</b> , 58, 202-212	1.7	10
23	Investigation of sedimentation process of soluble spherical particles in a non-Newtonian medium. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 530, 532-537	9.3	7
22	Power calculation of VVER-1000 reactor using a thermal method, applied to primary/secondary circuits. <i>Annals of Nuclear Energy</i> , <b>2015</b> , 77, 129-132	1.7	5
21	Pressure distribution in the containment of VVER-1000 during the first seconds of large break LOCA. <i>Progress in Nuclear Energy</i> , <b>2016</b> , 88, 211-217	2.3	5
20	Calculating the inventory of heavy metals in the fuel assemblies of VVER-1000 during the first cycle. <i>Annals of Nuclear Energy</i> , <b>2013</b> , 58, 33-35	1.7	5
19	Entropy generation in concentric annuli of 400kV gas-insulated transmission line. <i>Thermal Science and Engineering Progress</i> , <b>2020</b> , 19, 100614	3.6	5

18	PCA-based ANN approach to leak classification in the main pipes of VVER-1000. <i>Kerntechnik</i> , <b>2012</b> , 77, 365-370	0.4	4
17	Impact of Fusion Temperature on Hydrothermal Features of Flow within an Annulus Loaded with Nanoencapsulated Phase Change Materials (NEPCMs) during Natural Convection Process. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-14	1.1	4
16	Validation of RELAP5/MOD3.2 Code for Flashing-Induced Instabilities in a Single Channel. <i>World Journal of Nuclear Science and Technology</i> , <b>2015</b> , 05, 6-17	0.5	4
15	Optimizing a gap conductance model applicable to VVER-1000 thermal-hydraulic model. <i>Annals of Nuclear Energy</i> , <b>2012</b> , 50, 263-267	1.7	3
14	Allocating the residues cost of a typical HTGR directly integrated with steam cycle using distributed entropy method <b>2019</b> , 52, 221-233		3
13	Evaluating wind energy potential in Gorgan-Iran using two methods of Weibull distribution function. <i>International Journal of Renewable Energy Development</i> , <b>2016</b> , 5,	1.5	3
12	Sensitivity analysis of thermal-hydraulic parameters to study the corrosion intensity in nuclear power plant steam generators. <i>Nuclear Engineering and Technology</i> , <b>2019</b> , 51, 394-401	2.6	3
11	Sub-channel analysis in hot fuel assembly of VVER-1000 reactor using drift-flux model. <i>Indian Journal of Science and Technology</i> , <b>2015</b> , 8,	1	2
10	Improving the Performance of the Power Monitoring Channel <b>2012</b> ,		2
9	Optimizing the performance of a neutron detector in the power monitoring channel of Tehran Research Reactor (TRR). <i>Nuclear Engineering and Design</i> , <b>2009</b> , 239, 1260-1266	1.8	2
8	A Novel Control-rod Drive Mechanism via Electromagnetic Levitation in MNSR. <i>Nukleonika</i> , <b>2014</b> , 59, 73-79	1	2
7	Radon Concentration in the Drinking Water of Aliabad Katoul, Iran. <i>Iranian Red Crescent Medical Journal</i> , <b>2016</b> , 18, e27300	1.3	2
6	Producing Hydrogen-3 by irradiating lithium orthosilicate targets in a fission research reactor. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 7181-7184	6.7	1
5	Improved velocity and temperature profiles for integral solution in the laminar boundary layer flow on a semi-infinite flat plate. <i>Heat Transfer - Asian Research</i> , <b>2019</b> , 48, 182-215	2.8	1
4	Thermoeconomic analysis of a solar-driven hydrogen production system with proton exchange membrane water electrolysis unit. <i>Thermal Science and Engineering Progress</i> , <b>2022</b> , 30, 101274	3.6	1
3	Magneto-turbulent natural convection and entropy generation analyses in liquid sodium-filled cavity partially heated and cooled from sidewalls with circular blocks. <i>International Communications in Heat and Mass Transfer</i> , <b>2022</b> , 134, 106053	5.8	0
2	Assessment of Wind Energy Potential in Golestan Province of Iran. <i>International Journal of Renewable Energy Development</i> , <b>2016</b> , 5, 25-31	1.5	
1	Utilizing an auxiliary portable lube oil heating system in Aliabad Katoul-Iran V94.2 gas turbine during standstill mode: a case study. <i>Propulsion and Power Research</i> , <b>2019</b> , 8, 320-328	3.6	

