

Mehdi Hashemi-Tilehnoee

List of Publications by Year in descending order

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55
papers

1,614
citations

304602

22
h-index

302012

39
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57
all docs

57
docs citations

57
times ranked

788
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 Fe ₃ O ₄ -H ₂ O 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	Magneto-hydrodynamic 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	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. $\frac{1}{2}$ 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	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
13	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
14	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
15	Numerical simulation for thermal radiation and porous medium characteristics in flow of CuO-H ₂ O nanofluid. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	43
16	Analysis of a single-phase natural circulation loop with hybrid-nanofluid. International Communications in Heat and Mass Transfer, 2020, 112, 104498.	2.9	43
17	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
18	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

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19	Simulation of a control rod ejection accident in a VVER-1000/V446 using RELAP5/Mod3.2. <i>Annals of Nuclear Energy</i> , 2012, 45, 106-114.	0.9	34
20	Simulation of $Fe_3O_4-H_2O$ nanoliquid in a triangular enclosure subjected to Cattaneo-Christov theory of heat conduction. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 4430-4444.	1.6	33
21	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> , 2019, 139, 974-981.	2.5	32
22	Effect of Inclined Magnetic Field on the Entropy Generation in an Annulus Filled with NEPCM Suspension. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-14.	0.6	29
23	Effect of the baffle on the performance of a micro pin fin heat sink. <i>Thermal Science and Engineering Progress</i> , 2019, 14, 100417.	1.3	22
24	Forced reflood modeling in a 2×2 rod bundle with a 90% partially blocked region. <i>Annals of Nuclear Energy</i> , 2019, 131, 425-432.	0.9	17
25	HAZOP-study on heavy water research reactor primary cooling system. <i>Annals of Nuclear Energy</i> , 2010, 37, 428-433.	0.9	16
26	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> , 2021, 2021, 1-14.	0.6	16
27	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> , 2018, 115, 161-172.	0.9	15
28	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> , 2022, 134, 106053.	2.9	15
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> , 2018, 57, 1249-1259.	3.4	14
30	Numerical solution of the point reactor kinetics equations with fuel burn-up and temperature feedback. <i>Annals of Nuclear Energy</i> , 2010, 37, 265-269.	0.9	13
31	Sub-channel analysis of 8 and 9 BWR fuel assemblies with different two-phase flow models. <i>Annals of Nuclear Energy</i> , 2013, 62, 264-268.	0.9	11
32	Benchmarking a sub-channel program based on a drift-flux model with 8 NUPEC BWR rod bundle. <i>Annals of Nuclear Energy</i> , 2013, 58, 202-212.	0.9	10
33	Investigation of sedimentation process of soluble spherical particles in a non-Newtonian medium. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 532-537.	5.0	9
34	Pressure distribution in the containment of VVER-1000 during the first seconds of large break LOCA. <i>Progress in Nuclear Energy</i> , 2016, 88, 211-217.	1.3	8
35	Power calculation of VVER-1000 reactor using a thermal method, applied to primary-secondary circuits. <i>Annals of Nuclear Energy</i> , 2015, 77, 129-132.	0.9	7
36	Entropy generation in concentric annuli of 400-kV gas-insulated transmission line. <i>Thermal Science and Engineering Progress</i> , 2020, 19, 100614.	1.3	7

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37	PCA-based ANN approach to leak classification in the main pipes of VVER-1000. <i>Kerntechnik</i> , 2012, 77, 365-370.	0.2	6
38	Calculating the inventory of heavy metals in the fuel assemblies of VVER-1000 during the first cycle. <i>Annals of Nuclear Energy</i> , 2013, 58, 33-35.	0.9	6
39	Sensitivity analysis of thermal-hydraulic parameters to study the corrosion intensity in nuclear power plant steam generators. <i>Nuclear Engineering and Technology</i> , 2019, 51, 394-401.	1.1	6
40	Optimizing the performance of a neutron detector in the power monitoring channel of Tehran Research Reactor (TRR). <i>Nuclear Engineering and Design</i> , 2009, 239, 1260-1266.	0.8	5
41	Optimizing a gap conductance model applicable to VVER-1000 thermal-hydraulic model. <i>Annals of Nuclear Energy</i> , 2012, 50, 263-267.	0.9	5
42	Thermoeconomic analysis of a solar-driven hydrogen production system with proton exchange membrane water electrolysis unit. <i>Thermal Science and Engineering Progress</i> , 2022, 30, 101274.	1.3	5
43	Validation of RELAP5/MOD3.2 Code for Flashing-Induced Instabilities in a Single Channel. <i>World Journal of Nuclear Science and Technology</i> , 2015, 05, 6-17.	0.2	4
44	Improving the Performance of the Power Monitoring Channel. , 0, , .		3
45	Sub-channel analysis in hot fuel assembly™s of VVER-1000 reactor using drift-flux model. <i>Indian Journal of Science and Technology</i> , 2015, 8, .	0.5	3
46	Evaluating wind energy potential in Gorganâ€“Iran using two methods of Weibull distribution function. <i>International Journal of Renewable Energy Development</i> , 2016, 5, 43-48.	1.2	3
47	Allocating the residues cost of a typical HTGR directly integrated with steam cycle using distributed entropy method. <i>Arab Journal of Nuclear Sciences and Applications</i> , 2019, 52, 221-233.	0.1	3
48	A Novel Control-rod Drive Mechanism via Electromagnetic Levitation in MNSR. <i>Nukleonika</i> , 2014, 59, 73-79.	0.3	3
49	Radon Concentration in the Drinking Water of Aliabad Katoul, Iran. <i>Iranian Red Crescent Medical Journal</i> , 2016, 18, e27300.	0.5	3
50	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> , 2019, 48, 182-215.	2.8	2
51	A new model to measure the performance of the fins based on exergy analysis. <i>Thermal Science</i> , 2017, , 228-228.	0.5	2
52	Producing Hydrogen-3 by irradiating lithium orthosilicate targets in a fission research reactor. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 7181-7184.	3.8	1
53	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> , 2019, 8, 320-328.	2.0	1
54	Assessment of Wind Energy Potential in Golestan Province of Iran. <i>International Journal of Renewable Energy Development</i> , 2016, 5, 25-31.	1.2	0

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55	Thermal Hydraulic Modeling of Once-Through Steam Generator by Two-Fluid U-Tube Steam Generator Code. Atom Indonesia, 2017, 43, 145.	0.2	0