Emad Hasani Malekshah

List of Publications by Year
in descending order

57 papers	1,691 citations	201674 27 h-index	289244 40 g-index
57 all docs	57 docs citations	57 times ranked	767 citing authors

#	Article	IF	Citations
1	Numerical study of cavitating flow over hydrofoil in the presence of air. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 1440-1462.	2.8	6
2	Smoothed/profile lattice Boltzmann method for hydrothermal analysis of a corrugated parabolic-trough solar collector filled with nanofluid predicted by Kooâ€“Kleinstreuerâ€“Li model. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 1421-1439.	2.8	6
3	Coupling of BGK lattice Boltzmann method and experimental rheological/thermal behavior of Al2O3â€“oil nanolubricant for modeling of a finned thermal storage. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, ahead-of-print, .	2.8	3
4	MHD Natural Convection and Radiation over a Flame in a Partially Heated Semicircular Cavity Filled with a Nanofluid. Mathematics, 2022, 10, 1347.	2.2	10
5	Evaluation of modified turbulent viscosity on shedding dynamic of three-phase cloud cavitation around hydrofoil â€“ numerical/experimental analysis. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 3863-3880.	2.8	4
6	An experimental/numerical hydrothermal-Second law analysis of a finned/tubular heat exchanger using Bhatnagarâ€“Grossâ€“Krook Lattice Boltzmann (BGKLBM) and rheological-thermal behavior of Fe2O3-water. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 2308-2329.	2.8	10
7	Thermal performance of parabolic-trough solar collector using double-population LBM with single-node/curved scheme and experimental evaluation on properties of SiO2-TiO2/EG nanofluid. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, ahead-of-print, .	2.8	5
8	Cooling of an electronic processor based on numerical analysis on natural convection and entropy production over a dissipating fin equipped with copper oxide/water nanofluid with Koo-Kleinstreuer-Li model. Thermal Science and Engineering Progress, 2021, 23, 100916.	2.7	14
9	Comprehensive hydrothermal analysis of an inclined mini-channel with fin array: by dual/multi-relaxation-time LBM and experimental process on SiO₂-glycol rheological/thermal characteristics. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 2405-2429.	2.8	2
10	An experimental/numerical assessment over the influence of the dissolved air on the instantaneous characteristics/shedding frequency of cavitating flow. Ocean Engineering, 2021, 240, 109960.	4.3	8
11	Mixed convection inside lid-driven cavities filled with nanofluids. Journal of Thermal Analysis and Calorimetry, 2019, 135, 813-859.	3.6	33
12	Free convection analysis in a Î“-shaped heat exchanger using lattice Boltzmann method employing second law analysis and heatline visualization. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 3056-3074.	2.8	13
13	Fluid flow and heat transfer of a stratified system during natural convection â€“ influence of chamfered corners. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 470-486.	2.8	9
14	Study on fluid flow and heat transfer in fluid channel filled with KKL model-based nanofluid during natural convection using FVM. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 2622-2641.	2.8	10
15	Numerical modeling of nanofluid flow and heat transfer in a quartered gearwheel-shaped heat exchanger using FVM. Chinese Journal of Physics, 2019, 59, 591-605.	3.9	6
16	Heat transfer and nanofluid flow of free convection in a quarter cylinder channel considering nanoparticle shape effect. Powder Technology, 2019, 346, 160-170.	4.2	32
17	Lattice Boltzmann simulation of free convectionâ€™s hydrothermal aspects in a finned/multi-pipe cavity filled with CuO-water nanofluid. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1058-1078.	2.8	13
18	Hydrothermal investigation of a stratified system in enclosure with jagged surface for application in lead-acid batteries. Multidiscipline Modeling in Materials and Structures, 2019, 15, 283-303.	1.3	3

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19	Effect of tilt angle on the multi-pipe channel with sinusoidal/curved walls â€“ numerical modelling based on finite volume method. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1590-1605.	2.8	7
20	Three-dimensional combined radiation-magnetoconvection of low electrically conductive dielectric oxide melt. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 3611-3637.	2.8	8
21	Lattice Boltzmann simulation of 3D natural convection in a cuboid filled with KKL-model predicted nanofluid using Dual-MRT model. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 365-387.	2.8	19
22	Lattice Boltzmann method for nanofluid flow and heat transfer in a curve-ended T-shaped heat exchanger. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 21-42.	2.8	13
23	A comprehensive review on natural convection flow and heat transfer. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 834-877.	2.8	67
24	FREE CONVECTION AND ENTROPY GENERATION IN A CuO/WATER NANOFLUID-FILLED TRIANGULAR CHANNEL WITH SINUSOIDAL WALLS. Heat Transfer Research, 2019, 50, 1043-1059.	1.6	7
25	CHARACTERISTICS OF NUCLEATE BOILING IN TALL ENCLOSURES: INFLUENCE OF THE ASPECT RATIO - FOR APPLICATIONS IN HIGH-PERFORMANCE LEAD-ACID BATTERIES. Heat Transfer Research, 2019, 50, 1819-1837.	1.6	0
26	Heat transfer enhancement using Al 2 O 3 -EG/W(60/40 vol%) in multiple-pipe heat exchanger. Journal of Molecular Liquids, 2018, 261, 319-336.	4.9	28
27	Lattice Boltzmann numerical method for natural convection and entropy generation in cavity with refrigerant rigid body filled with DWCNTs-water nanofluid-experimental thermo-physical properties. Thermal Science and Engineering Progress, 2018, 5, 372-387.	2.7	47
28	3D magneto-convective heat transfer in CNT-nanofluid filled cavity under partially active magnetic field. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 99, 294-303.	2.7	85
29	Lattice Boltzmann method based on Dual-MRT model for three-dimensional natural convection and entropy generation in CuOâ€“water nanofluid filled cuboid enclosure included with discrete active walls. Computers and Mathematics With Applications, 2018, 75, 1795-1813.	2.7	50
30	Entropy generation analysis and heatline visualization of free convection in nanofluid (KKL) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td and Mathematics With Applications, 2018, 75, 1814-1830.	2.7	42
31	Influence of static bubbles at the surface of electrodes on the natural convection flow for application in high performance lead-acid battery. Thermal Science and Engineering Progress, 2018, 5, 204-212.	2.7	30
32	Thermal analysis of a cell of lead-acid battery subjected by non-uniform heat flux during natural convection. Thermal Science and Engineering Progress, 2018, 5, 317-326.	2.7	27
33	Three-dimensional investigation of the effects of external magnetic field inclination on laminar natural convection heat transfer in CNTâ€“water nanofluid filled cavity. Journal of Molecular Liquids, 2018, 252, 454-468.	4.9	98
34	Combination of Dual-MRT lattice Boltzmann method with experimental observations during free convection in enclosure filled with MWCNT-MgO/Water hybrid nanofluid. Thermal Science and Engineering Progress, 2018, 5, 422-436.	2.7	35
35	Heat transfer intensification using CuO-water nanofluid in a finned capsule-shaped heat exchanger using lattice Boltzmann method. Chemical Engineering and Processing: Process Intensification, 2018, 127, 17-27.	3.6	25
36	Natural convection analysis employing entropy generation and heatline visualization in a hollow L-shaped cavity filled with nanofluid using lattice Boltzmann method- experimental thermo-physical properties. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 97, 82-97.	2.7	72

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37	Mixed convection and entropy generation in a nanofluid filled cubical open cavity with a central isothermal block. International Journal of Mechanical Sciences, 2018, 135, 362-375.	6.7	109
38	Analysis of natural convection in nanofluid-filled H-shaped cavity by entropy generation and heatline visualization using lattice Boltzmann method. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 97, 347-362.	2.7	85
39	Natural convection in a rectangular enclosure filled by two immiscible fluids of air and Al2O3-water nanofluid heated partially from side walls. AEJ - Alexandria Engineering Journal, 2018, 57, 1401-1412.	6.4	37
40	Lattice Boltzmann simulation of free convection in nanofluid filled cavity with partially active walls â€“ entropy generation and heatline visualization. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 2254-2283.	2.8	23
41	Lattice Boltzmann simulation for hydrothermal analysis of free convection within dumbbell-shaped heat exchanger. Chinese Journal of Physics, 2018, 56, 2865-2878.	3.9	11
42	Lattice Boltzmann simulation of nanofluid flow and heat transfer in a hollow multi-pipe heat exchanger considering nanoparticles' shapes. Powder Technology, 2018, 339, 974-984.	4.2	33
43	Double-MRT lattice Boltzmann simulation of natural convection in a C-shaped heat exchanger. Powder Technology, 2018, 336, 465-480.	4.2	32
44	THREE-DIMENSIONAL NATURAL CONVECTION AND ENTROPY GENERATION IN TALL RECTANGULAR ENCLOSURES FILLED WITH STRATIFIED NANOFLUID/AIR FLUIDS. Heat Transfer Research, 2018, 49, 685-702.	1.6	15
45	Natural convection and entropy generation analysis for 3D inclined enclosure filled with stratified fluids of Ag-MgO/Water hybrid Nanofluid and air. Heat Transfer Research, 2018, , .	1.6	3
46	NUMERICAL STUDY OF THE EFFECT OF SIDE-WALL INCLINATION ANGLES ON NATURAL CONVECTION IN A 3D TRAPEZOIDAL ENCLOSURE FILLED WITH TWO-LAYER NANOFLUID AND AIR. Heat Transfer Research, 2018, 49, 787-802.	1.6	1
47	Three-dimensional numerical analysis of the natural convection and entropy generation of MWCNTs-H₂O and air as two immiscible fluids in a rectangular cuboid with fillet corners. Numerical Heat Transfer; Part A: Applications, 2017, 71, 881-894.	2.1	11
48	Second law analysis of natural convection in a CNT-water nanofluid filled inclined 3D cavity with incorporated Ahmed body. International Journal of Mechanical Sciences, 2017, 130, 399-415.	6.7	62
49	Experimental and numerical investigation of natural convection in a rectangular cuboid filled by two immiscible fluids. Experimental Thermal and Fluid Science, 2017, 85, 388-398.	2.7	42
50	Three dimensional simulation of natural convection and entropy generation in an air and MWCNT/water nanofluid filled cuboid as two immiscible fluids with emphasis on the nanofluid height ratio's effects. Journal of Molecular Liquids, 2017, 227, 223-233.	4.9	82
51	Hydrothermal analysis of transient natural convection in a finned cavity filled with sulfuric acid-water (25â€“75%) for applications in high-performance lead-acid batteries â€“ Numerical study. Thermal Science and Engineering Progress, 2017, 4, 241-251.	2.7	26
52	3D numerical analysis of natural convection and entropy generation within tilted rectangular enclosures filled with stratified fluids of MWCNTs/water nanofluid and air. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 624-638.	5.3	31
53	Numerical analysis of turbulent/transitional natural convection in trapezoidal enclosures. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 2902-2923.	2.8	43
54	Natural convection analysis by entropy generation and heatline visualization using lattice Boltzmann method in nanofluid filled cavity included with internal heaters- Empirical thermo-physical properties. International Journal of Mechanical Sciences, 2017, 133, 199-216.	6.7	45

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55	Experimental and numerical study on heat transfer performance of three-dimensional natural convection in an enclosure filled with DWCNTs-water nanofluid. Powder Technology, 2017, 322, 340-352.	4.2	59
56	Free convection heat transfer and entropy generation analysis of MWCNT-MgO (15% â˜’ 85%)/Water nanofluid using Lattice Boltzmann method in cavity with refrigerant solid body-Experimental thermo-physical properties. Powder Technology, 2017, 322, 9-23.	4.2	63
57	Lattice Boltzmann simulation of natural convection and entropy generation in cavities filled with nanofluid in existence of internal rigid bodies-Experimental thermo-physical properties. Journal of Molecular Liquids, 2017, 242, 580-593.	4.9	31