Tahar Tayebi

List of Publications by Year
in descending order

51 papers	2,138 citations	236925 25 h-index	254184 43 g-index
51 all docs	51 docs citations	51 times ranked	940 citing authors

#	Article	IF	Citations
1	Natural convection analysis in a square enclosure with a wavy circular heater under magnetic field and nanoparticles. Journal of Thermal Analysis and Calorimetry, 2020, 139, 661-671.	3.6	149
2	Entropy generation analysis during MHD natural convection flow of hybrid nanofluid in a square cavity containing a corrugated conducting block. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 1115-1136.	2.8	148
3	Entropy generation analysis due to MHD natural convection flow in a cavity occupied with hybrid nanofluid and equipped with a conducting hollow cylinder. Journal of Thermal Analysis and Calorimetry, 2020, 139, 2165-2179.	3.6	146
4	Free convection enhancement in an annulus between horizontal confocal elliptical cylinders using hybrid nanofluids. Numerical Heat Transfer; Part A: Applications, 2016, 70, 1141-1156.	2.1	125
5	Thermo-economic and entropy generation analyses of magnetic natural convective flow in a nanofluid-filled annular enclosure fitted with fins. Sustainable Energy Technologies and Assessments, 2021, 46, 101274.	2.7	112
6	Analysis of thermal behavior of magnetic buoyancy-driven flow in ferrofluidâ€“filled wavy enclosure furnished with two circular cylinders. International Communications in Heat and Mass Transfer, 2021, 120, 104951.	5.6	101
7	Magnetohydrodynamic Natural Convection Heat Transfer of Hybrid Nanofluid in a Square Enclosure in the Presence of a Wavy Circular Conductive Cylinder. Journal of Thermal Science and Engineering Applications, 2020, 12, .	1.5	96
8	Natural convection and entropy production in hybrid nanofluid filled-annular elliptical cavity with internal heat generation or absorption. Thermal Science and Engineering Progress, 2020, 19, 100605.	2.7	90
9	Effect of rotating solid cylinder on entropy generation and convective heat transfer in a wavy porous cavity heated from below. International Communications in Heat and Mass Transfer, 2018, 95, 197-209.	5.6	87
10	Impact of two-phase hybrid nanofluid approach on mixed convection inside wavy lid-driven cavity having localized solid block. Journal of Advanced Research, 2021, 30, 63-74.	9.5	85
11	Convective heat transfer performance of hybrid nanofluid in a horizontal pipe considering nanoparticles shapes effect. Journal of Thermal Analysis and Calorimetry, 2020, 140, 411-425.	3.6	77
12	Thermal-natural convection and entropy production behavior of hybrid nanoliquid flow under the effects of magnetic field through a porous wavy cavity embodies three circular cylinders. Journal of the Taiwan Institute of Chemical Engineers, 2021, 124, 162-173.	5.3	70
13	Natural convection enhancement in an eccentric horizontal cylindrical annulus using hybrid nanofluids. Numerical Heat Transfer; Part A: Applications, 2017, 71, 1159-1173.	2.1	66
14	Role of various configurations of a wavy circular heater on convective heat transfer within an enclosure filled with nanofluid. International Communications in Heat and Mass Transfer, 2020, 113, 104525.	5.6	54
15	BUOYANCY-DRIVEN HEAT TRANSFER ENHANCEMENT IN A SINUSOIDALLY HEATED ENCLOSURE UTILIZING HYBRID NANOFLUID. Computational Thermal Sciences, 2017, 9, 405-421.	0.9	51
16	Entropy production during natural convection of hybrid nanofluid in an annular passage between horizontal confocal elliptic cylinders. International Journal of Mechanical Sciences, 2020, 171, 105378.	6.7	47
17	A comprehensive review on the application of hybrid nanofluids in solar energy collectors. Sustainable Energy Technologies and Assessments, 2021, 47, 101341.	2.7	46
18	Analysis of hydrothermal characteristics of magnetic Al₂O₃â€H₂O nanofluid within a novel wavy enclosure during natural convection process considering internal heat generation. Mathematical Methods in the Applied Sciences, 0, , .	2.3	42

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19	Effects of two-phase nanofluid model on natural convection in a square cavity in the presence of an adiabatic inner block and magnetic field. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 1613-1647.	2.8	33
20	Natural convection of $$mathrm {Al}_{2}mathrm {O}_{3}$$-water nanofluid in a non-Darcian wavy porous cavity under the local thermal non-equilibrium condition. Scientific Reports, 2020, 10, 18048.	3.3	33
21	Effects of various configurations of an inserted corrugated conductive cylinder on MHD natural convection in a hybrid nanofluid-filled square domain. Journal of Thermal Analysis and Calorimetry, 2021, 143, 1399-1411.	3.6	33
22	Effect of internal heat generation or absorption on conjugate thermal-free convection of a suspension of hybrid nanofluid in a partitioned circular annulus. International Communications in Heat and Mass Transfer, 2021, 126, 105397.	5.6	33
23	Effects of Non-Homogeneous Nanofluid Model on Natural Convection in a Square Cavity in the Presence of Conducting Solid Block and Corner Heater. Energies, 2018, 11, 2507.	3.1	30
24	Natural convection in nanofluid filled and partially heated annulus: Effect of different arrangements of heaters. Physica A: Statistical Mechanics and Its Applications, 2020, 538, 122479.	2.6	30
25	Entropy Generation and Mixed Convection Flow Inside a Wavy-Walled Enclosure Containing a Rotating Solid Cylinder and a Heat Source. Entropy, 2020, 22, 606.	2.2	29
26	Local thermal non-equilibrium (LTNE) effects on thermal-free convection in a nanofluid-saturated horizontal elliptical non-Darcian porous annulus. Mathematics and Computers in Simulation, 2022, 194, 124-140.	4.4	29
27	Micropolar nanofluid thermal free convection and entropy generation through an inclined I-shaped enclosure with two hot cylinders. Case Studies in Thermal Engineering, 2022, 31, 101813.	5.7	29
28	Conjugate natural convection of non-Newtonian hybrid nanofluid in wavy-shaped enclosure. Applied Mathematics and Mechanics (English Edition), 2022, 43, 447-466.	3.6	29
29	MHD natural convection of a CNT-based nanofluid-filled annular circular enclosure with inner heat-generating solid cylinder. European Physical Journal Plus, 2021, 136, 1.	2.6	26
30	Analysis of the effects of local thermal non-equilibrium (LTNE) on thermo-natural convection in an elliptical annular space separated by a nanofluid-saturated porous sleeve. International Communications in Heat and Mass Transfer, 2021, 129, 105725.	5.6	25
31	Analysis of the local non-equilibria on the heat transfer and entropy generation during thermal natural convection in a non-Darcy porous medium. International Communications in Heat and Mass Transfer, 2022, 135, 106133.	5.6	25
32	Numerical analysis of porous flat plate solar collector under thermal radiation and hybrid nanoparticles using two-phase model. Sustainable Energy Technologies and Assessments, 2021, 47, 101404.	2.7	24
33	Natural Convective Nanofluid Flow in an Annular Space Between Confocal Elliptic Cylinders. Journal of Thermal Science and Engineering Applications, 2017, 9, .	1.5	23
34	Entropy-based analysis and economic scrutiny of magneto thermal natural convection enhancement in a nanofluid-filled porous trapezium-shaped cavity having localized baffles. Waves in Random and Complex Media, 0, , 1-21.	2.7	23
35	Nanofluid mixed convection inside wavy cavity with heat source: A non-homogeneous study. Case Studies in Thermal Engineering, 2022, 34, 102049.	5.7	12
36	Impacts of Amplitude and Local Thermal Non-Equilibrium Design on Natural Convection within NanoflUid Superposed Wavy Porous Layers. Nanomaterials, 2021, 11, 1277.	4.1	10

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37	Effect of Sinusoidal Thermal Boundary Condition on Natural Convection in a Cavity Filled with Cu-Water Nanofluid. Journal of Nanofluids, 2013, 2, 120-126.	2.7	10
38	MHD buoyancyâ€driven flow in a nanoliquid filledâ€square enclosure divided by a solid conductive wall. Mathematical Methods in the Applied Sciences, 2020, , .	2.3	9
39	Numerical Study of Natural Convection Flow in a Square Cavity with Linearly Heating on Bottom Wall Using Copper-Water Nanofluid. Journal of Nanofluids, 2015, 4, 38-49.	2.7	8
40	Toward the heat convection enhancement of nanofluids flowing in a 3D microchannel affected by a nonuniform magnetic field. Heat Transfer, 0, , .	3.0	7
41	Numerical Simulation of Natural Convection of Water Based Nanofluids in Horizontal Eccentric Cylindrical Annuli. Journal of Nanofluids, 2016, 5, 253-263.	2.7	7
42	Natural convection of CNT-water nanofluid in an annular space between confocal elliptic cylinders with constant heat flux on inner wall. Scientia Iranica, 2018, .	0.4	5
43	Recent Studies on the Forced Convection of Nano-Fluids in Channels and Tubes: A Comprehensive Review. Experimental Techniques, 2023, 47, 47-81.	1.5	5
44	NUMERICAL INVESTIGATION OF NATURAL CONVECTION NANOFLUID FLOW IN AN ANNULAR SPACE BETWEEN CONFOCAL ELLIPTIC CYLINDERS AT VARIOUS GEOMETRICAL ORIENTATIONS. Computational Thermal Sciences, 2020, 12, 99-114.	0.9	4
45	Free Convection in a Carbon Nanotube-Water Nanofluid Filled Enclosure with Power-Law Variation Wall Temperature. Journal of Nanofluids, 2016, 5, 531-542.	2.7	3
46	Effect of Periodic Heating Conditions on Natural Convection in an Enclosure Filled with Copper-Water Nanofluid. Journal of Nanofluids, 2019, 8, 1281-1294.	2.7	3
47	Improvement of Free Convection Heat Transfer in a Concentric Cylindrical Annulus Heat Exchanger Using Nanofluid. Mathematical Modelling of Engineering Problems, 2019, 6, 566-574.	0.5	3
48	Experimental and Theoretical Investigation on a Solar Chimney System for Ventilation of a Living Room. Mathematical Modelling of Engineering Problems, 2021, 8, 259-266.	0.5	2
49	Toward the thermohydrodynamic behavior of a nanofluid containing Câ€MWCNTs flowing through a 3D annulus channel under constant imposed heat flux. Heat Transfer, 2022, 51, 2524-2545.	3.0	2
50	Entropy generation analysis of convective airflow in a solar updraft tower power plant. Heat Transfer - Asian Research, 2019, 48, 3885-3901.	2.8	1
51	Effect of varying ambient temperature and solar radiation on the flow in a solar chimney collector. International Journal of Smart Grid and Clean Energy, 2016, , .	0.4	1