Taher Armaghani

List of Publications by Year
in descending order

51 papers	2,423 citations	185998 28 h-index	214527 47 g-index
51 all docs	51 docs citations	51 times ranked	1112 citing authors

#	Article	IF	Citations
1	Entropy generation and MHD natural convection of a nanofluid in an inclined square porous cavity: Effects of a heat sink and source size and location. Chinese Journal of Physics, 2018, 56, 193-211.	2.0	188
2	Conjugate heat transfer and entropy generation in a cavity filled with a nanofluid-saturated porous media and heated by a triangular solid. Journal of the Taiwan Institute of Chemical Engineers, 2016, 59, 138-151.	2.7	168
3	Effects of heat sink and source and entropy generation on MHD mixed convection of a Cu-water nanofluid in a lid-driven square porous enclosure with partial slip. Physics of Fluids, 2017, 29, .	1.6	146
4	Natural Convection Analysis in a Cavity with an Inclined Elliptical Heater Subject to Shape Factor of Nanoparticles and Magnetic Field. Arabian Journal for Science and Engineering, 2019, 44, 7919-7931.	1.7	145
5	A comprehensive review on mixed convection of nanofluids in various shapes of enclosures. Powder Technology, 2019, 343, 880-907.	2.1	130
6	Entropy Generation and Natural Convection of CuO-Water Nanofluid in C-Shaped Cavity under Magnetic Field. Entropy, 2016, 18, 50.	1.1	129
7	Numerical investigation of water-alumina nanofluid natural convection heat transfer and entropy generation in a baffled L-shaped cavity. Journal of Molecular Liquids, 2016, 223, 243-251.	2.3	123
8	Effects of partial slip on entropy generation and MHD combined convection in a lid-driven porous enclosure saturated with a Cuâ€“water nanofluid. Journal of Thermal Analysis and Calorimetry, 2018, 132, 1291-1306.	2.0	90
9	Investigation of Hydrothermal Behavior of Fe3O4-H2O Nanofluid Natural Convection in a Novel Shape of Porous Cavity Subjected to Magnetic Field Dependent (MFD) Viscosity. Journal of Energy Storage, 2020, 30, 101395.	3.9	88
10	Magnetohydrodynamic Mixed Convection and Entropy Analysis of Nanofluid in Gamma-Shaped Porous Cavity. Journal of Thermophysics and Heat Transfer, 2020, 34, 836-847.	0.9	86
11	MHD mixed convection of localized heat source/sink in an Al2O3-Cu/water hybrid nanofluid in L-shaped cavity. AEJ - Alexandria Engineering Journal, 2021, 60, 2947-2962.	3.4	80
12	MHD mixed convection and entropy generation of nanofluid in a lid-driven U-shaped cavity with internal heat and partial slip. Physics of Fluids, 2019, 31, .	1.6	70
13	MHD natural convection and entropy analysis of a nanofluid inside T-shaped baffled enclosure. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 2916-2941.	1.6	66
14	Forced Convection Heat Transfer of Nanofluids in a Porous Channel. Transport in Porous Media, 2012, 93, 401-413.	1.2	65
15	MHD free convection heat transfer of a waterâ€“Fe3O4 nanofluid in a baffled C-shaped enclosure. Journal of Thermal Analysis and Calorimetry, 2019, 135, 685-695.	2.0	54
16	On the natural convection of nanofluids in diverse shapes of enclosures: an exhaustive review. Journal of Thermal Analysis and Calorimetry, 2022, 147, 1-22.	2.0	52
17	Inclined magneto: convection, internal heat, and entropy generation of nanofluid in an I-shaped cavity saturated with porous media. Journal of Thermal Analysis and Calorimetry, 2020, 142, 2273-2285.	2.0	47
18	Two-phase nanofluid model and magnetic field effects on mixed convection in a lid-driven cavity containing heated triangular wall. AEJ - Alexandria Engineering Journal, 2020, 59, 129-148.	3.4	46

#	Article	IF	Citations
19	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, , .	1.2	42
20	Role of Rotating Cylinder toward Mixed Convection inside a Wavy Heated Cavity via Two-Phase Nanofluid Concept. Nanomaterials, 2020, 10, 1138.	1.9	41
21	Entropy generation and nanofluid mixed convection in a C-shaped cavity with heat corner and inclined magnetic field. European Physical Journal: Special Topics, 2019, 228, 2619-2645.	1.2	40
22	Effects of discrete heat source location on heat transfer and entropy generation of nanofluid in an open inclined L-shaped cavity. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1363-1377.	1.6	40
23	Pseudoplastic natural convection flow and heat transfer in a cylindrical vertical cavity partially filled with a porous layer. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 1096-1114.	1.6	38
24	Analysis of entropy generation and natural convection in an inclined partially porous layered cavity filled with a nanofluid. Canadian Journal of Physics, 2017, 95, 238-252.	0.4	37
25	MIXED CONVECTION AND ENTROPY GENERATION IN A LID-DRIVEN CAVITY FILLED WITH A HYBRID NANOFLUID AND HEATED BY A TRIANGULAR SOLID. Heat Transfer Research, 2018, 49, 1645-1665.	0.9	37
26	Magnetoconvection and Entropy Analysis in T-Shaped Porous Enclosure Using Finite Element Method. Journal of Thermophysics and Heat Transfer, 2020, 34, 203-214.	0.9	36
27	MHD mixed convection flow and heat transfer in an open C-shaped enclosure using water-copper oxide nanofluid. Heat and Mass Transfer, 2018, 54, 1791-1801.	1.2	34
28	Effects of two-phase nanofluid model on convection in a double lid-driven cavity in the presence of a magnetic field. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1272-1299.	1.6	34
29	Conjugate heat transfer of Al2O3â€“water nanofluid in a square cavity heated by a triangular thick wall using Buongiornoâ€™s two-phase model. Journal of Thermal Analysis and Calorimetry, 2019, 135, 161-176.	2.0	29
30	Conjugate natural convection of non-Newtonian hybrid nanofluid in wavy-shaped enclosure. Applied Mathematics and Mechanics (English Edition), 2022, 43, 447-466.	1.9	29
31	Impact of magnetic field and entropy generation of Casson fluid on double diffusive natural convection in staggered cavity. International Communications in Heat and Mass Transfer, 2021, 127, 105520.	2.9	27
32	NUMERICAL ANALYSIS OF A NANOFLUID FORCED CONVECTION IN A POROUS CHANNEL: A NEW HEAT FLUX MODEL IN LTNE CONDITION. Journal of Porous Media, 2014, 17, 637-646.	1.0	26
33	Numerical study of forced convection flow and heat transfer of a nanofluid flowing inside a straight circular pipe filled with a saturated porous medium. European Physical Journal Plus, 2016, 131, 1.	1.2	17
34	A different look at the effect of temperature on the nanofluids thermal conductivity: focus on the experimental-based models. Journal of Thermal Analysis and Calorimetry, 2022, 147, 4553-4577.	2.0	14
35	A New Thermal Conductivity Model and Two-Phase Mixed Convection of CuOâ€“Water Nanofluids in a Novel I-Shaped Porous Cavity Heated by Oriented Triangular Hot Block. Nanomaterials, 2020, 10, 2219.	1.9	13
36	Mixed Convection and Entropy Generation of an Ag-Water Nanofluid in an Inclined L-Shaped Channel. Energies, 2019, 12, 1150.	1.6	12

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37	Effects of Particle Migration on Nanofluid Forced Convection Heat Transfer in a Local Thermal Non-Equilibrium Porous Channel. Journal of Nanofluids, 2014, 3, 51-59.	1.4	12
38	New models for heat flux splitting at the boundary of a porous medium: three energy equations for nanofluid flow under local thermal nonequilibrium conditions. Canadian Journal of Physics, 2014, 92, 1312-1319.	0.4	10
39	Forced Convection Heat Transfer of Nanofluids in a Channel Filled with Porous Media Under Local Thermal Non-Equilibrium Condition with Three New Models for Absorbed Heat Flux. Journal of Nanofluids, 2017, 6, 362-367.	1.4	10
40	Turbulent combined forced and natural convection of nanofluid in a 3D rectangular channel using two-phase model approach. Journal of Thermal Analysis and Calorimetry, 2019, 135, 3247-3257.	2.0	9
41	Numerical analysis of mixed convection of different nanofluids in concentric annulus. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1506-1525.	1.6	8
42	Statistical study and a complete overview of nanofluid viscosity correlations: a new look. Journal of Thermal Analysis and Calorimetry, 2022, 147, 7099-7132.	2.0	8
43	Effects of magnetic field inclination and internal heat sources on nanofluid heat transfer and entropy generation in a double lid driven L-shaped cavity. Thermal Science, 2021, 25, 1033-1046.	0.5	7
44	The Effects of Hot Blocks Geometry and Particle Migration on Heat Transfer and Entropy Generation of a Novel I-Shaped Porous Enclosure. Sustainability, 2021, 13, 7190.	1.6	7
45	Effects of nanoparticle volume fraction in hydrodynamic and thermal characteristics of forced plane jet. Thermal Science, 2012, 16, 455-468.	0.5	7
46	Thermal and entropy analysis in Lâ€shaped nonâ€Darcian porous cavity saturated with nanofluids using Buongiorno model: Comparative study. Mathematical Methods in the Applied Sciences, 0, , .	1.2	6
47	Twoâ€phase study of nanofluids mixed convection and entropy generation in an Iâ€shaped porous cavity with triangular hot block and different aspect ratios. Mathematical Methods in the Applied Sciences, 0, , .	1.2	6
48	MHD Mixed Convection and Entropy Analysis of Non-Newtonian Hybrid Nanofluid in a Novel Wavy Elbow-Shaped Cavity with a Quarter Circle Hot Block and a Rotating Cylinder. Experimental Techniques, 2023, 47, 17-36.	0.9	6
49	Recent Studies on the Forced Convection of Nano-Fluids in Channels and Tubes: A Comprehensive Review. Experimental Techniques, 2023, 47, 47-81.	0.9	5
50	Entropy generation analysis of mixed convection with considering magnetohydrodynamic effects in an open C-shaped cavity. Thermal Science, 2019, 23, 3455-3465.	0.5	2
51	Numerical investigation of flow and thermal pattern in unbounded flow using nanofluid - Case study: Laminar 2-D plane jet. Thermal Science, 2016, 20, 1575-1584.	0.5	1