

Taher Armaghani

List of Publications by Citations

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51
papers

1,595
citations

22
h-index

39
g-index

51
ext. papers

1,987
ext. citations

3.3
avg, IF

5.64
L-index

#	Paper	IF	Citations
51	Conjugate heat transfer and entropy generation in a cavity filled with a nanofluid-saturated porous media and heated by a triangular solid. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 59, 138-151	5.3	142
50	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. <i>Chinese Journal of Physics</i> , 2018 , 56, 193-211	3.5	135
49	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. <i>Physics of Fluids</i> , 2017 , 29, 052001	4.4	115
48	Natural Convection Analysis in a Cavity with an Inclined Elliptical Heater Subject to Shape Factor of Nanoparticles and Magnetic Field. <i>Arabian Journal for Science and Engineering</i> , 2019 , 44, 7919-7931	2.5	107
47	Numerical investigation of water-alumina nanofluid natural convection heat transfer and entropy generation in a baffled L-shaped cavity. <i>Journal of Molecular Liquids</i> , 2016 , 223, 243-251	6	96
46	Entropy Generation and Natural Convection of CuO-Water Nanofluid in C-Shaped Cavity under Magnetic Field. <i>Entropy</i> , 2016 , 18, 50	2.8	90
45	A comprehensive review on mixed convection of nanofluids in various shapes of enclosures. <i>Powder Technology</i> , 2019 , 343, 880-907	5.2	73
44	Effects of partial slip on entropy generation and MHD combined convection in a lid-driven porous enclosure saturated with a Cu-water nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 132, 1291-1306	4.1	71
43	Investigation of Hydrothermal Behavior of Fe ₃ O ₄ -H ₂ O Nanofluid Natural Convection in a Novel Shape of Porous Cavity Subjected to Magnetic Field Dependent (MFD) Viscosity. <i>Journal of Energy Storage</i> , 2020 , 30, 101395	7.8	61
42	Magnetohydrodynamic Mixed Convection and Entropy Analysis of Nanofluid in Gamma-Shaped Porous Cavity. <i>Journal of Thermophysics and Heat Transfer</i> , 2020 , 34, 836-847	1.3	55
41	Forced Convection Heat Transfer of Nanofluids in a Porous Channel. <i>Transport in Porous Media</i> , 2012 , 93, 401-413	3.1	54
40	MHD natural convection and entropy analysis of a nanofluid inside T-shaped baffled enclosure. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018 , 28, 2916-2941	4.5	47
39	MHD free convection heat transfer of a water-Fe ₃ O ₄ nanofluid in a baffled C-shaped enclosure. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 685-695	4.1	42
38	MHD mixed convection and entropy generation of nanofluid in a lid-driven U-shaped cavity with internal heat and partial slip. <i>Physics of Fluids</i> , 2019 , 31, 042006	4.4	38
37	Two-phase nanofluid model and magnetic field effects on mixed convection in a lid-driven cavity containing heated triangular wall. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 129-148	6.1	38
36	MHD mixed convection of localized heat source/sink in an Al ₂ O ₃ -Cu/water hybrid nanofluid in L-shaped cavity. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 60, 2947-2962	6.1	32
35	Role of Rotating Cylinder toward Mixed Convection inside a Wavy Heated Cavity via Two-Phase Nanofluid Concept. <i>Nanomaterials</i> , 2020 , 10,	5.4	29

34	Effects of discrete heat source location on heat transfer and entropy generation of nanofluid in an open inclined L-shaped cavity. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 1363-1377	4.5	28
33	Conjugate heat transfer of Al ₂ O ₃ /water nanofluid in a square cavity heated by a triangular thick wall using Buongiorno's two-phase model. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 161-176	4.1	26
32	On the natural convection of nanofluids in diverse shapes of enclosures: an exhaustive review. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 1	4.1	25
31	Analysis of entropy generation and natural convection in an inclined partially porous layered cavity filled with a nanofluid. <i>Canadian Journal of Physics</i> , 2017 , 95, 238-252	1.1	24
30	MIXED CONVECTION AND ENTROPY GENERATION IN A LID-DRIVEN CAVITY FILLED WITH A HYBRID NANOFLUID AND HEATED BY A TRIANGULAR SOLID. <i>Heat Transfer Research</i> , 2018 , 49, 1645-1665	2.9	23
29	NUMERICAL ANALYSIS OF A NANOFLUID FORCED CONVECTION IN A POROUS CHANNEL: A NEW HEAT FLUX MODEL IN LTNE CONDITION. <i>Journal of Porous Media</i> , 2014 , 17, 637-646	2.9	21
28	Pseudoplastic natural convection flow and heat transfer in a cylindrical vertical cavity partially filled with a porous layer. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 1096-1114	4.5	21
27	Analysis of hydrothermal characteristics of magnetic Al ₂ O ₃ -H ₂ O nanofluid within a novel wavy enclosure during natural convection process considering internal heat generation. <i>Mathematical Methods in the Applied Sciences</i> , 2020 ,	2.3	21
26	Inclined magneto: convection, internal heat, and entropy generation of nanofluid in an I-shaped cavity saturated with porous media. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 2273-2285	4.1	20
25	MHD mixed convection flow and heat transfer in an open C-shaped enclosure using water-copper oxide nanofluid. <i>Heat and Mass Transfer</i> , 2018 , 54, 1791-1801	2.2	18
24	Magnetoconvection and Entropy Analysis in T-Shaped Porous Enclosure Using Finite Element Method. <i>Journal of Thermophysics and Heat Transfer</i> , 2020 , 34, 203-214	1.3	17
23	Effects of two-phase nanofluid model on convection in a double lid-driven cavity in the presence of a magnetic field. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 1272-1299	4.5	17
22	Numerical study of forced convection flow and heat transfer of a nanofluid flowing inside a straight circular pipe filled with a saturated porous medium. <i>European Physical Journal Plus</i> , 2016 , 131, 1	3.1	11
21	Entropy generation and nanofluid mixed convection in a C-shaped cavity with heat corner and inclined magnetic field. <i>European Physical Journal: Special Topics</i> , 2019 , 228, 2619-2645	2.3	11
20	Effects of Particle Migration on Nanofluid Forced Convection Heat Transfer in a Local Thermal Non-Equilibrium Porous Channel. <i>Journal of Nanofluids</i> , 2014 , 3, 51-59	2.2	10
19	New models for heat flux splitting at the boundary of a porous medium: three energy equations for nanofluid flow under local thermal nonequilibrium conditions. <i>Canadian Journal of Physics</i> , 2014 , 92, 1312-1319	1.1	9
18	Impact of magnetic field and entropy generation of Casson fluid on double diffusive natural convection in staggered cavity. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 127, 105520	5.8	9
17	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. <i>Journal of Nanofluids</i> , 2017 , 6, 362-367	2.2	8

16	Numerical analysis of mixed convection of different nanofluids in concentric annulus. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 1506-1525	4.5	7
15	Mixed Convection and Entropy Generation of an Ag-Water Nanofluid in an Inclined L-Shaped Channel. <i>Energies</i> , 2019 , 12, 1150	3.1	6
14	A New Thermal Conductivity Model and Two-Phase Mixed Convection of CuO-Water Nanofluids in a Novel I-Shaped Porous Cavity Heated by Oriented Triangular Hot Block. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
13	Effects of magnetic field inclination and internal heat sources on nanofluid heat transfer and entropy generation in a double lid driven L-shaped cavity. <i>Thermal Science</i> , 2021 , 25, 1033-1046	1.2	6
12	Turbulent combined forced and natural convection of nanofluid in a 3D rectangular channel using two-phase model approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 3247-3257	4.1	5
11	A different look at the effect of temperature on the nanofluids thermal conductivity: focus on the experimental-based models. <i>Journal of Thermal Analysis and Calorimetry</i> ,1	4.1	5
10	Effects of nanoparticle volume fraction in hydrodynamic and thermal characteristics of forced plane jet. <i>Thermal Science</i> , 2012 , 16, 455-468	1.2	3
9	Thermal and entropy analysis in L-shaped non-Darcian porous cavity saturated with nanofluids using Buongiorno model: Comparative study. <i>Mathematical Methods in the Applied Sciences</i> , 2020 ,	2.3	3
8	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. <i>Experimental Techniques</i> ,1	1.4	2
7	Recent Studies on the Forced Convection of Nano-Fluids in Channels and Tubes: A Comprehensive Review. <i>Experimental Techniques</i> ,1	1.4	2
6	Two-phase study of nanofluids mixed convection and entropy generation in an I-shaped porous cavity with triangular hot block and different aspect ratios. <i>Mathematical Methods in the Applied Sciences</i> , 2020 ,	2.3	1
5	Numerical investigation of flow and thermal pattern in unbounded flow using nanofluid - Case study: Laminar 2-D plane jet. <i>Thermal Science</i> , 2016 , 20, 1575-1584	1.2	1
4	Entropy generation analysis of mixed convection with considering magnetohydrodynamic effects in an open C-shaped cavity. <i>Thermal Science</i> , 2019 , 23, 3455-3465	1.2	1
3	The Effects of Hot Blocks Geometry and Particle Migration on Heat Transfer and Entropy Generation of a Novel I-Shaped Porous Enclosure. <i>Sustainability</i> , 2021 , 13, 7190	3.6	1
2	Statistical study and a complete overview of nanofluid viscosity correlations: a new look. <i>Journal of Thermal Analysis and Calorimetry</i> ,1	4.1	1
1	Conjugate natural convection of non-Newtonian hybrid nanofluid in wavy-shaped enclosure. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2022 , 43, 447-466	3.2	1