Ammar Alsabery

List of Publications by Year
in descending order

82 papers	2,899 citations	147726 31 h-index	197736 49 g-index
82 all docs	82 docs citations	82 times ranked	1169 citing authors

#	Article	IF	Citations
1	Modification for helical turbulator to augment heat transfer behavior of nanomaterial via numerical approach. Applied Thermal Engineering, 2021, 182, 115935.	3.0	165
2	Effect of local thermal non-equilibrium model on natural convection in a nanofluid-filled wavy-walled porous cavity containing inner solid cylinder. Chemical Engineering Science, 2019, 201, 247-263.	1.9	130
3	Mixed convection of Al2O3-water nanofluid in a double lid-driven square cavity with a solid inner insert using Buongiorno's two-phase model. International Journal of Heat and Mass Transfer, 2018, 119, 939-961.	2.5	127
4	Numerical investigation of natural convection of Al_2O_3 nanofluid in a wavy cavity with conductive inner block using Buongiorno's two-phase model. Advanced Powder Technology, 2019, 30, 399-414.	2.0	92
5	Fluid-structure interaction analysis of entropy generation and mixed convection inside a cavity with flexible right wall and heated rotating cylinder. International Journal of Heat and Mass Transfer, 2019, 140, 331-345.	2.5	88
6	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.	2.9	87
7	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.	4.4	85
8	Effect of nonhomogeneous nanofluid model on transient natural convection in a non-Darcy porous cavity containing an inner solid body. International Communications in Heat and Mass Transfer, 2020, 110, 104442.	2.9	82
9	Heatline visualization of conjugate natural convection in a square cavity filled with nanofluid with sinusoidal temperature variations on both horizontal walls. International Journal of Heat and Mass Transfer, 2016, 100, 835-850.	2.5	81
10	Internal heat generation effect on transient natural convection in a nanofluid-saturated local thermal non-equilibrium porous inclined cavity. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 275-293.	1.2	78
11	Conjugate natural convection of Al2O3–water nanofluid in a square cavity with a concentric solid insert using Buongiorno's two-phase model. International Journal of Mechanical Sciences, 2018, 136, 200-219.	3.6	76
12	Impact of nonhomogeneous nanofluid model on transient mixed convection in a double lid-driven wavy cavity involving solid circular cylinder. International Journal of Mechanical Sciences, 2019, 150, 637-655.	3.6	76
13	Natural Convection Flow of a Nanofluid in an Inclined Square Enclosure Partially Filled with a Porous Medium. Scientific Reports, 2017, 7, 2357.	1.6	74
14	Effects of finite wall thickness and sinusoidal heating on convection in nanofluid-saturated local thermal non-equilibrium porous cavity. Physica A: Statistical Mechanics and Its Applications, 2017, 470, 20-38.	1.2	66
15	Heatline visualization of natural convection in a trapezoidal cavity partly filled with nanofluid porous layer and partly with non-Newtonian fluid layer. Advanced Powder Technology, 2015, 26, 1230-1244.	2.0	62
16	MHD convective heat transfer in a discretely heated square cavity with conductive inner block using two-phase nanofluid model. Scientific Reports, 2018, 8, 7410.	1.6	62
17	Effects of two-phase nanofluid model on MHD mixed convection in a lid-driven cavity in the presence of conductive inner block and corner heater. Journal of Thermal Analysis and Calorimetry, 2019, 135, 729-750.	2.0	60
18	Numerical Investigation of Mixed Convection and Entropy Generation in a Wavy-Walled Cavity Filled with Nanofluid and Involving a Rotating Cylinder. Entropy, 2018, 20, 664.	1.1	56

#	Article	IF	Citations
19	Heatlines visualisation of mixed convection flow in a wavy heated cavity filled with nanofluids and having an inner solid block. International Journal of Mechanical Sciences, 2020, 175, 105529.	3.6	56
20	Fluid-structure interaction in natural convection heat transfer in an oblique cavity with a flexible oscillating fin and partial heating. Applied Thermal Engineering, 2018, 145, 80-97.	3.0	55
21	Impacts of heated rotating inner cylinder and two-phase nanofluid model on entropy generation and mixed convection in a square cavity. Heat and Mass Transfer, 2020, 56, 321-338.	1.2	52
22	Transient natural convective heat transfer in a trapezoidal cavity filled with non-Newtonian nanofluid with sinusoidal boundary conditions on both sidewalls. Powder Technology, 2017, 308, 214-234.	2.1	51
23	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
24	Entropy Generation and Natural Convection Flow of Hybrid Nanofluids in a Partially Divided Wavy Cavity Including Solid Blocks. Energies, 2020, 13, 2942.	1.6	44
25	Effects of two-phase nanofluid model and localized heat source/sink on natural convection in a square cavity with a solid circular cylinder. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 952-981.	3.4	42
26	Impact of Partial Slip on Magneto-Ferrofluids Mixed Convection Flow in Enclosure. Journal of Thermal Science and Engineering Applications, 2020, 12, .	0.8	42
27	Role of Rotating Cylinder toward Mixed Convection inside a Wavy Heated Cavity via Two-Phase Nanofluid Concept. Nanomaterials, 2020, 10, 1138.	1.9	41
28	Impacts of magnetic field and non-homogeneous nanofluid model on convective heat transfer and entropy generation in a cavity with heated trapezoidal body. Journal of Thermal Analysis and Calorimetry, 2019, 138, 1371-1394.	2.0	38
29	A review on applications and techniques of improving the performance of heat pipe-solar collector systems. Solar Energy, 2022, 236, 417-433.	2.9	36
30	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
31	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.	1.6	33
32	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.	1.6	33
33	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.	1.6	30
34	Effect of finite wall thickness on entropy generation and natural convection in a nanofluid-filled partially heated square cavity. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 1518-1546.	1.6	30
35	Transient natural convection heat transfer in nanoliquid-saturated porous oblique cavity using thermal non-equilibrium model. International Journal of Mechanical Sciences, 2016, 114, 233-245.	3.6	29
36	Effects of Nonuniform Heating and Wall Conduction on Natural Convection in a Square Porous Cavity Using LTNE Model. Journal of Heat Transfer, 2017, 139, .	1.2	29

#	Article	IF	Citations
37	Entropy Generation Analysis and Natural Convection in a Nanofluid-Filled Square Cavity with a Concentric Solid Insert and Different Temperature Distributions. Entropy, 2018, 20, 336.	1.1	29
38	Conjugate heat transfer of Al2O3–water nanofluid in a square cavity heated by a triangular thick wall using Buongiorno's two-phase model. Journal of Thermal Analysis and Calorimetry, 2019, 135, 161-176.	2.0	29
39	Entropy Generation and Mixed Convection Flow Inside a Wavy-Walled Enclosure Containing a Rotating Solid Cylinder and a Heat Source. Entropy, 2020, 22, 606.	1.1	29
40	Impact of particles tracking model of nanofluid on forced convection heat transfer within a wavy horizontal channel. International Communications in Heat and Mass Transfer, 2021, 122, 105176.	2.9	29
41	Transient free convective heat transfer in nanoliquid-saturated porous square cavity with a concentric solid insert and sinusoidal boundary condition. Superlattices and Microstructures, 2016, 100, 1006-1028.	1.4	28
42	Effect of spatial side-wall temperature variation on transient natural convection of a nanofluid in a trapezoidal cavity. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 1365-1384.	1.6	28
43	Unsteady flow and entropy analysis of nanofluids inside cubic porous container holding inserted body and wavy bottom wall. International Journal of Mechanical Sciences, 2021, 193, 106161.	3.6	25
44	Entropy production and mixed convection within trapezoidal cavity having nanofluids and localised solid cylinder. Scientific Reports, 2021, 11, 14700.	1.6	22
45	Fluid-structure interaction analysis of transient convection heat transfer in a cavity containing inner solid cylinder and flexible right wall. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 3756-3780.	1.6	21
46	Magnetohydrodynamics energy transport inside a double lid-driven wavy-walled chamber: Impacts of inner solid cylinder and two-phase nanoliquid approach. International Journal of Mechanical Sciences, 2020, 184, 105846.	3.6	21
47	Heatline visualization of mixed convection inside double lid-driven cavity having heated wavy wall. Journal of Thermal Analysis and Calorimetry, 2021, 145, 3159-3176.	2.0	21
48	Mixed Convection in a Double Lid-Driven Cavity Filled with Hybrid Nanofluid by Using Finite Volume Method. Symmetry, 2020, 12, 1977.	1.1	20
49	Nanoparticle impact on discharging of PCM through a thermal storage involving numerical modeling for heat transfer and irreversibility. Powder Technology, 2020, 376, 424-437.	2.1	20
50	Darcian Natural Convection in an Inclined Trapezoidal Cavity Partly Filled with a Porous Layer and Partly with a Nanofluid Layer. Sains Malaysiana, 2017, 46, 803-815.	0.3	19
51	Impact of finite wavy wall thickness on entropy generation and natural convection of nanofluid in cavity partially filled with non-Darcy porous layer. Neural Computing and Applications, 2020, 32, 13679-13699.	3.2	18
52	Numerical study of conjugate natural convection heat transfer of a blood filled horizontal concentric annulus. International Communications in Heat and Mass Transfer, 2020, 114, 104568.	2.9	18
53	Controlling the natural convection flow through a flexible baffle in an L-shaped enclosure. Meccanica, 2020, 55, 1561-1584.	1.2	17
54	Impact of heat source on combined convection flow inside wavy-walled cavity filled with nanofluids via heatline concept. Applied Mathematics and Computation, 2021, 393, 125754.	1.4	16

#	Article	IF	Citations
55	Transient nanofluid flow and energy dissipation from wavy surface using magnetic field and two rotating cylinders. Computers and Mathematics With Applications, 2021, 97, 329-343.	1.4	16
56	Entropy generation of nanomaterial through a tube considering swirl flow tools. Journal of Thermal Analysis and Calorimetry, 2021, 144, 1597-1612.	2.0	15
57	MHD Mixed Convection in a Lid-Driven Cavity with a Bottom Trapezoidal Body: Two-Phase Nanofluid Model. Energies, 2018, 11, 2943.	1.6	14
58	Fluid-structure interaction of a hot flexible thin plate inside an enclosure. International Journal of Thermal Sciences, 2020, 153, 106340.	2.6	14
59	Impacts of amplitude and heat source on natural convection of hybrid nanofluids into a wavy enclosure via heatline approach. Waves in Random and Complex Media, 2023, 33, 1060-1084.	1.6	14
60	Natural convection in polygonal enclosures with inner circular cylinder. Advances in Mechanical Engineering, 2015, 7, 168781401562289.	0.8	12
61	Natural convection inside nanofluid superposed wavy porous layers using LTNE model. Waves in Random and Complex Media, 0, , 1-29.	1.6	12
62	Nanofluid mixed convection inside wavy cavity with heat source: A non-homogeneous study. Case Studies in Thermal Engineering, 2022, 34, 102049.	2.8	12
63	Effects of nonhomogeneous nanofluid model on convective heat transfer in partially heated square cavity with conducting solid block. Journal of Thermal Analysis and Calorimetry, 2019, 136, 1489-1514.	2.0	11
64	Energy transport of two-phase nanofluid approach inside a three-dimensional lid-driven cubic cavity containing solid cylinder and heat source. Chemical Engineering and Processing: Process Intensification, 2020, 154, 108010.	1.8	11
65	Impacts of Amplitude and Local Thermal Non-Equilibrium Design on Natural Convection within NanoflUid Superposed Wavy Porous Layers. Nanomaterials, 2021, 11, 1277.	1.9	10
66	Effects of Viscous Dissipation and Radiation on MHD Natural Convection in Oblique Porous Cavity with Constant Heat Flux. Advances in Applied Mathematics and Mechanics, 2017, 9, 463-484.	0.7	9
67	Impacts of two-phase nanofluid approach toward forced convection heat transfer within a 3D wavy horizontal channel. Chinese Journal of Physics, 2022, 77, 350-365.	2.0	9
68	Entropy generation and natural convection in a wavy-wall cavity filled with a nanofluid and containing an inner solid cylinder. IOP Conference Series: Materials Science and Engineering, 2019, 518, 032044.	0.3	8
69	Convection Heat Transfer in 3D Wavy Direct Absorber Solar Collector Based on Two-Phase Nanofluid Approach. Applied Sciences (Switzerland), 2020, 10, 7265.	1.3	7
70	Energy transport of wavy non-homogeneous hybrid nanofluid cavity partially filled with porous LTNE layer. Journal of Petroleum Science and Engineering, 2022, 208, 109655.	2.1	7
71	Forced convection of turbulent flow into the wavy parallel channel. Journal of Thermal Analysis and Calorimetry, 2022, 147, 11183-11194.	2.0	6
72	EFFECTS OF INTERNAL HEAT GENERATION AND PARTIAL HEATING ON TRANSIENT NATURAL CONVECTION IN AN INCLINED POROUS CAVITY USING LTNE MODEL. Journal of Porous Media, 2020, 23, 139-162.	1.0	5

#	Article	IF	Citations
73	Evaluation of convection flow and entropy generation in a wavy cubical container with nanofluid and embedded cylinder. Journal of Computational Design and Engineering, 2022, 9, 598-615.	1.5	5
74	MIXED CONVECTION HEAT TRANSFER OF SIO2-WATER AND ALUMINA-PAO NANO-LUBRICANTS USED IN A MECHANICAL BALL BEARING. Journal of Thermal Engineering, 2021, 7, 134-161.	0.8	4
75	Energy and Entropy Production of Nanofluid within an Annulus Partly Saturated by a Porous Region. Entropy, 2021, 23, 1237.	1.1	4
76	Effect of Al_2O_3–SiO_2/Water Hybrid Nanofluid Filled in a Square Enclosure on the Natural Convective Heat Transfer Characteristics: A Numerical Study. Journal of Nanofluids, 2022, 11, 772-781.	1.4	4
77	Inclination angle effect on natural convection in a square cavity partially filled with non-Newtonian fluids layer. AIP Conference Proceedings, 2015, , .	0.3	3
78	Numerical and Theoretical Study of Performance and Mechanical Behavior of PEM-FC Using Innovative Channel Geometrical Configurations. Applied Sciences (Switzerland), 2021, 11, 5597.	1.3	3
79	Mixed convection in a double lid-driven rectangular cavity filled with hybrid nanofluid subjected to non-uniform heating using finite-volume method. European Physical Journal: Special Topics, 2022, 231, 2539-2553.	1.2	3
80	Darcian Natural Convection in Inclined Square Cavity Partially Filled Between the Central Square Hole Filled with a Fluid and Inside a Square Porous Cavity Filled with Nanofluid. Journal of Applied Fluid Mechanics, 2016, 9, 1763-1775.	0.4	2
81	Impacts of non-homogeneous nanofluid approach and orientation angle on convection heat transfer within a 3D wavy cavity. IOP Conference Series: Materials Science and Engineering, 2020, 765, 012035.	0.3	1
82	Entropy generation and natural convection of nanofluids in a trapezoidal cavity having an innersolid cylinder. Journal of Physics: Conference Series, 2021, 1988, 012012.	0.3	0