

# Ammar Alsabery

## List of Publications by Citations

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78  
papers

1,944  
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27  
h-index

41  
g-index

82  
ext. papers

2,441  
ext. citations

3.9  
avg, IF

6.07  
L-index

#	Paper	IF	Citations
78	Modification for helical turbulator to augment heat transfer behavior of nanomaterial via numerical approach. <i>Applied Thermal Engineering</i> , <b>2021</b> , 182, 115935	5.8	118
77	Effect of local thermal non-equilibrium model on natural convection in a nanofluid-filled wavy-walled porous cavity containing inner solid cylinder. <i>Chemical Engineering Science</i> , <b>2019</b> , 201, 247-263	4.4	98
76	Mixed convection of Al <sub>2</sub> O <sub>3</sub> -water nanofluid in a double lid-driven square cavity with a solid inner insert using Buongiorno's two-phase model. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 119, 939-961	4.9	88
75	Numerical investigation of natural convection of Al <sub>2</sub> O <sub>3</sub> -water nanofluid in a wavy cavity with conductive inner block using Buongiorno's two-phase model. <i>Advanced Powder Technology</i> , <b>2019</b> , 30, 399-414	4.6	76
74	Impact of nonhomogeneous nanofluid model on transient mixed convection in a double lid-driven wavy cavity involving solid circular cylinder. <i>International Journal of Mechanical Sciences</i> , <b>2019</b> , 150, 637-655	5.5	65
73	Fluid-structure interaction analysis of entropy generation and mixed convection inside a cavity with flexible right wall and heated rotating cylinder. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 140, 331-345	4.9	64
72	Effect of nonhomogeneous nanofluid model on transient natural convection in a non-Darcy porous cavity containing an inner solid body. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 110, 104442	5.8	60
71	Heatline visualization of conjugate natural convection in a square cavity filled with nanofluid with sinusoidal temperature variations on both horizontal walls. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 100, 835-850	4.9	60
70	Effect of rotating solid cylinder on entropy generation and convective heat transfer in a wavy porous cavity heated from below. <i>International Communications in Heat and Mass Transfer</i> , <b>2018</b> , 95, 197-209	5.8	60
69	Conjugate natural convection of Al <sub>2</sub> O <sub>3</sub> -water nanofluid in a square cavity with a concentric solid insert using Buongiorno's two-phase model. <i>International Journal of Mechanical Sciences</i> , <b>2018</b> , 136, 200-219	5.5	57
68	Internal heat generation effect on transient natural convection in a nanofluid-saturated local thermal non-equilibrium porous inclined cavity. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2018</b> , 509, 275-293	3.3	55
67	Effects of finite wall thickness and sinusoidal heating on convection in nanofluid-saturated local thermal non-equilibrium porous cavity. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2017</b> , 470, 20-38	3.3	53
66	Natural Convection Flow of a Nanofluid in an Inclined Square Enclosure Partially Filled with a Porous Medium. <i>Scientific Reports</i> , <b>2017</b> , 7, 2357	4.9	53
65	Heatline visualization of natural convection in a trapezoidal cavity partly filled with nanofluid porous layer and partly with non-Newtonian fluid layer. <i>Advanced Powder Technology</i> , <b>2015</b> , 26, 1230-1244	4.6	52
64	MHD convective heat transfer in a discretely heated square cavity with conductive inner block using two-phase nanofluid model. <i>Scientific Reports</i> , <b>2018</b> , 8, 7410	4.9	50
63	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. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 135, 729-750	4.1	44
62	Fluid-structure interaction in natural convection heat transfer in an oblique cavity with a flexible oscillating fin and partial heating. <i>Applied Thermal Engineering</i> , <b>2018</b> , 145, 80-97	5.8	42

61	Numerical Investigation of Mixed Convection and Entropy Generation in a Wavy-Walled Cavity Filled with Nanofluid and Involving a Rotating Cylinder. <i>Entropy</i> , <b>2018</b> , 20,	2.8	39
60	Transient natural convective heat transfer in a trapezoidal cavity filled with non-Newtonian nanofluid with sinusoidal boundary conditions on both sidewalls. <i>Powder Technology</i> , <b>2017</b> , 308, 214-234	5.2	38
59	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> , <b>2020</b> , 59, 129-148	6.1	38
58	Impacts of heated rotating inner cylinder and two-phase nanofluid model on entropy generation and mixed convection in a square cavity. <i>Heat and Mass Transfer</i> , <b>2020</b> , 56, 321-338	2.2	37
57	Heatlines visualisation of mixed convection flow in a wavy heated cavity filled with nanofluids and having an inner solid block. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 175, 105529	5.5	35
56	Effects of two-phase nanofluid model and localized heat source/sink on natural convection in a square cavity with a solid circular cylinder. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2019</b> , 346, 952-981	5.7	34
55	Impacts of magnetic field and non-homogeneous nanofluid model on convective heat transfer and entropy generation in a cavity with heated trapezoidal body. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 138, 1371-1394	4.1	33
54	Impact of two-phase hybrid nanofluid approach on mixed convection inside wavy lid-driven cavity having localized solid block. <i>Journal of Advanced Research</i> , <b>2021</b> , 30, 63-74	13	33
53	Role of Rotating Cylinder toward Mixed Convection inside a Wavy Heated Cavity via Two-Phase Nanofluid Concept. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	29
52	Transient natural convection heat transfer in nanoliquid-saturated porous oblique cavity using thermal non-equilibrium model. <i>International Journal of Mechanical Sciences</i> , <b>2016</b> , 114, 233-245	5.5	27
51	Impact of Partial Slip on Magneto-Ferrofluids Mixed Convection Flow in Enclosure. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2020</b> , 12,	1.9	27
50	Conjugate heat transfer of Al <sub>2</sub> O <sub>3</sub> /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> , <b>2019</b> , 135, 161-176	4.1	26
49	Effects of Nonuniform Heating and Wall Conduction on Natural Convection in a Square Porous Cavity Using LTNE Model. <i>Journal of Heat Transfer</i> , <b>2017</b> , 139,	1.8	25
48	Transient free convective heat transfer in nanoliquid-saturated porous square cavity with a concentric solid insert and sinusoidal boundary condition. <i>Superlattices and Microstructures</i> , <b>2016</b> , 100, 1006-1028	2.8	25
47	Effect of spatial side-wall temperature variation on transient natural convection of a nanofluid in a trapezoidal cavity. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2017</b> , 27, 1365-1384	4.5	24
46	Entropy Generation and Natural Convection Flow of Hybrid Nanofluids in a Partially Divided Wavy Cavity Including Solid Blocks. <i>Energies</i> , <b>2020</b> , 13, 2942	3.1	23
45	Effects of two-phase nanofluid model on natural convection in a square cavity in the presence of an adiabatic inner block and magnetic field. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2018</b> , 28, 1613-1647	4.5	23
44	Entropy Generation Analysis and Natural Convection in a Nanofluid-Filled Square Cavity with a Concentric Solid Insert and Different Temperature Distributions. <i>Entropy</i> , <b>2018</b> , 20,	2.8	22

43	Effects of Non-Homogeneous Nanofluid Model on Natural Convection in a Square Cavity in the Presence of Conducting Solid Block and Corner Heater. <i>Energies</i> , <b>2018</b> , 11, 2507	3.1	22
42	Effect of finite wall thickness on entropy generation and natural convection in a nanofluid-filled partially heated square cavity. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 30, 1518-1546	4.5	21
41	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> , <b>2019</b> , 29, 1272-1299	4.5	17
40	Natural convection of [Formula: see text]-water nanofluid in a non-Darcian wavy porous cavity under the local thermal non-equilibrium condition. <i>Scientific Reports</i> , <b>2020</b> , 10, 18048	4.9	15
39	Impact of particles tracking model of nanofluid on forced convection heat transfer within a wavy horizontal channel. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 122, 105176	5.8	15
38	Fluid-structure interaction analysis of transient convection heat transfer in a cavity containing inner solid cylinder and flexible right wall. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 29, 3756-3780	4.5	14
37	Unsteady flow and entropy analysis of nanofluids inside cubic porous container holding inserted body and wavy bottom wall. <i>International Journal of Mechanical Sciences</i> , <b>2021</b> , 193, 106161	5.5	12
36	Magnetohydrodynamics energy transport inside a double lid-driven wavy-walled chamber: Impacts of inner solid cylinder and two-phase nanofluid approach. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 184, 105846	5.5	11
35	Fluid-structure interaction of a hot flexible thin plate inside an enclosure. <i>International Journal of Thermal Sciences</i> , <b>2020</b> , 153, 106340	4.1	11
34	Darcian Natural Convection in an Inclined Trapezoidal Cavity Partly Filled with a Porous Layer and Partly with a Nanofluid Layer <b>2017</b> , 46, 803-815		11
33	Entropy Generation and Mixed Convection Flow Inside a Wavy-Walled Enclosure Containing a Rotating Solid Cylinder and a Heat Source. <i>Entropy</i> , <b>2020</b> , 22,	2.8	10
32	Controlling the natural convection flow through a flexible baffle in an L-shaped enclosure. <i>Meccanica</i> , <b>2020</b> , 55, 1561-1584	2.1	9
31	Impact of finite wavy wall thickness on entropy generation and natural convection of nanofluid in cavity partially filled with non-Darcy porous layer. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 13679-13699	4.8	9
30	Natural convection in polygonal enclosures with inner circular cylinder. <i>Advances in Mechanical Engineering</i> , <b>2015</b> , 7, 168781401562289	1.2	9
29	Entropy generation of nanomaterial through a tube considering swirl flow tools. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 144, 1597-1612	4.1	9
28	MHD Mixed Convection in a Lid-Driven Cavity with a Bottom Trapezoidal Body: Two-Phase Nanofluid Model. <i>Energies</i> , <b>2018</b> , 11, 2943	3.1	9
27	Effects of Viscous Dissipation and Radiation on MHD Natural Convection in Oblique Porous Cavity with Constant Heat Flux. <i>Advances in Applied Mathematics and Mechanics</i> , <b>2017</b> , 9, 463-484	2.1	8
26	Nanoparticle impact on discharging of PCM through a thermal storage involving numerical modeling for heat transfer and irreversibility. <i>Powder Technology</i> , <b>2020</b> , 376, 424-437	5.2	8

25	Numerical study of conjugate natural convection heat transfer of a blood filled horizontal concentric annulus. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 114, 104568	5.8	8
24	Impact of heat source on combined convection flow inside wavy-walled cavity filled with nanofluids via heatline concept. <i>Applied Mathematics and Computation</i> , <b>2021</b> , 393, 125754	2.7	8
23	Entropy production and mixed convection within trapezoidal cavity having nanofluids and localised solid cylinder. <i>Scientific Reports</i> , <b>2021</b> , 11, 14700	4.9	8
22	Mixed Convection in a Double Lid-Driven Cavity Filled with Hybrid Nanofluid by Using Finite Volume Method. <i>Symmetry</i> , <b>2020</b> , 12, 1977	2.7	7
21	Transient nanofluid flow and energy dissipation from wavy surface using magnetic field and two rotating cylinders. <i>Computers and Mathematics With Applications</i> , <b>2021</b> , 97, 329-343	2.7	7
20	Entropy generation and natural convection in a wavy-wall cavity filled with a nanofluid and containing an inner solid cylinder. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 518, 032044	0.4	6
19	Energy transport of two-phase nanofluid approach inside a three-dimensional lid-driven cubic cavity containing solid cylinder and heat source. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2020</b> , 154, 108010	3.7	6
18	Effects of nonhomogeneous nanofluid model on convective heat transfer in partially heated square cavity with conducting solid block. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 136, 1489-1514	4.1	6
17	Impacts of amplitude and heat source on natural convection of hybrid nanofluids into a wavy enclosure via heatline approach. <i>Waves in Random and Complex Media</i> , 1-25	1.9	4
16	Heatline visualization of mixed convection inside double lid-driven cavity having heated wavy wall. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 145, 3159-3176	4.1	4
15	A review on applications and techniques of improving the performance of heat pipe-solar collector systems. <i>Solar Energy</i> , <b>2022</b> , 236, 417-433	6.8	4
14	Convection Heat Transfer in 3D Wavy Direct Absorber Solar Collector Based on Two-Phase Nanofluid Approach. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7265	2.6	3
13	EFFECTS OF INTERNAL HEAT GENERATION AND PARTIAL HEATING ON TRANSIENT NATURAL CONVECTION IN AN INCLINED POROUS CAVITY USING LTNE MODEL. <i>Journal of Porous Media</i> , <b>2020</b> , 23, 139-162	2.9	3
12	Energy transport of wavy non-homogeneous hybrid nanofluid cavity partially filled with porous LTNE layer. <i>Journal of Petroleum Science and Engineering</i> , <b>2022</b> , 208, 109655	4.4	3
11	Impacts of Amplitude and Local Thermal Non-Equilibrium Design on Natural Convection within Nanofluid Superposed Wavy Porous Layers. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
10	Numerical and Theoretical Study of Performance and Mechanical Behavior of PEM-FC Using Innovative Channel Geometrical Configurations. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 5597	2.6	3
9	Inclination angle effect on natural convection in a square cavity partially filled with non-Newtonian fluids layer <b>2015</b> ,		2
8	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. <i>Journal of Applied Fluid Mechanics</i> , <b>2016</b> , 9, 1763-1775	1.5	2

7	MIXED CONVECTION HEAT TRANSFER OF SIO <sub>2</sub> -WATER AND ALUMINA-PAO NANO-LUBRICANTS USED IN A MECHANICAL BALL BEARING. <i>Journal of Thermal Engineering</i> , <b>2021</b> , 7, 134-161	1.1	2
6	Impacts of two-phase nanofluid approach toward forced convection heat transfer within a 3D wavy horizontal channel. <i>Chinese Journal of Physics</i> , <b>2022</b> , 77, 350-365	3.5	2
5	Impacts of non-homogeneous nanofluid approach and orientation angle on convection heat transfer within a 3D wavy cavity. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 765, 012035	0.4	0
4	Natural convection inside nanofluid superposed wavy porous layers using LTNE model. <i>Waves in Random and Complex Media</i> , 1-29	1.9	0
3	Forced convection of turbulent flow into the wavy parallel channel. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	0
2	Nanofluid mixed convection inside wavy cavity with heat source: A non-homogeneous study. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 34, 102049	5.6	0
1	Entropy generation and natural convection of nanofluids in a trapezoidal cavity having an innersolid cylinder. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 1988, 012012	0.3	