Hakan F Oztop

List of Publications by Year
in descending order

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498 papers	22,793 citations	8181 76 h-index	19190 118 g-index
498 all docs	498 docs citations	498 times ranked	6305 citing authors

#	Article	IF	Citations
1	Numerical study of natural convection in partially heated rectangular enclosures filled with nanofluids. International Journal of Heat and Fluid Flow, 2008, 29, 1326-1336.	2.4	1,691
2	Effects of inclination angle on natural convection in enclosures filled with Cuâ€“water nanofluid. International Journal of Heat and Fluid Flow, 2009, 30, 669-678.	2.4	431
3	Effect of nanofluid variable properties on natural convection in enclosures. International Journal of Thermal Sciences, 2010, 49, 479-491.	4.9	297
4	Mixed convection in two-sided lid-driven differentially heated square cavity. International Journal of Heat and Mass Transfer, 2004, 47, 1761-1769.	4.8	286
5	A review of melting and freezing processes of PCM/nano-PCM and their application in energy storage. Energy, 2020, 211, 118698.	8.8	271
6	A review on entropy generation in natural and mixed convection heat transfer for energy systems. Renewable and Sustainable Energy Reviews, 2012, 16, 911-920.	16.4	260
7	A review on how the researchers prepare their nanofluids. International Journal of Thermal Sciences, 2014, 76, 168-189.	4.9	249
8	A review on natural convective heat transfer of nanofluids. Renewable and Sustainable Energy Reviews, 2012, 16, 5363-5378.	16.4	245
9	Energy and exergy analysis of a latent heat storage system with phase change material for a solar collector. Renewable Energy, 2008, 33, 567-574.	8.9	232
10	Natural convection in nanofluids: Are the thermophoresis and Brownian motion effects significant in nanofluid heat transfer enhancement?. International Journal of Thermal Sciences, 2012, 57, 152-162.	4.9	220
11	Numerical study of MHD mixed convection in a nanofluid filled lid driven square enclosure with a rotating cylinder. International Journal of Heat and Mass Transfer, 2014, 78, 741-754.	4.8	193
12	MHD natural convection in an inclined wavy cavity with corner heater filled with a nanofluid. Journal of Magnetism and Magnetic Materials, 2016, 416, 37-47.	2.3	188
13	Corrugated conductive partition effects on MHD free convection of CNT-water nanofluid in a cavity. International Journal of Heat and Mass Transfer, 2019, 129, 265-277.	4.8	183
14	A brief review of natural convection in enclosures under localized heating with and without nanofluids. International Communications in Heat and Mass Transfer, 2015, 60, 37-44.	5.6	167
15	Natural convection heat transfer in partially open inclined square cavities. International Journal of Heat and Mass Transfer, 2005, 48, 1470-1479.	4.8	161
16	MHD mixed convection and entropy generation of nanofluid filled lid driven cavity under the influence of inclined magnetic fields imposed to its upper and lower diagonal triangular domains. Journal of Magnetism and Magnetic Materials, 2016, 406, 266-281.	2.3	160
17	MHD natural convection and entropy generation of ferrofluid in an open trapezoidal cavity partially filled with a porous medium. International Journal of Mechanical Sciences, 2018, 136, 493-502.	6.7	160
18	MHD mixed convection in a lid-driven cavity with corner heater. International Journal of Heat and Mass Transfer, 2011, 54, 3494-3504.	4.8	157

#	Article	IF	Citations
19	MHD free convection in a wavy open porous tall cavity filled with nanofluids under an effect of corner heater. International Journal of Heat and Mass Transfer, 2016, 103, 955-964.	4.8	150
20	Conjugate natural convection in a cavity with a conductive partition and filled with different nanofluids on different sides of the partition. Journal of Molecular Liquids, 2016, 216, 67-77.	4.9	144
21	Natural convection and entropy generation of nanofluid filled cavity having different shaped obstacles under the influence of magnetic field and internal heat generation. Journal of the Taiwan Institute of Chemical Engineers, 2015, 56, 42-56.	5.3	143
22	Estimation of solar radiation using artificial neural networks with different input parameters for Mediterranean region of Anatolia in Turkey. Expert Systems With Applications, 2011, 38, 8756-8762.	7.6	142
23	Effect of a rotating cylinder in forced convection of ferrofluid over a backward facing step. International Journal of Heat and Mass Transfer, 2014, 71, 142-148.	4.8	135
24	Experimental study for the application of different cooling techniques in photovoltaic (PV) panels. Energy Conversion and Management, 2020, 212, 112789.	9.2	129
25	Fluid flow due to combined convection in lid-driven enclosure having a circular body. International Journal of Heat and Fluid Flow, 2009, 30, 886-901.	2.4	128
26	Pulsating nanofluids jet impingement cooling of a heated horizontal surface. International Journal of Heat and Mass Transfer, 2014, 69, 54-65.	4.8	128
27	Energy and exergy analyses of porous baffles inserted solar air heaters for building applications. Energy and Buildings, 2013, 57, 338-345.	6.7	124
28	Natural convection of nanofluid inside a wavy cavity with a non-uniform heating. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 958-980.	2.8	123
29	Mixed convection of nanofluids in a three dimensional cavity with two adiabatic inner rotating cylinders. International Journal of Heat and Mass Transfer, 2018, 117, 331-343.	4.8	123
30	Heatline visualization of MHD natural convection in an inclined wavy open porous cavity filled with a nanofluid with a local heater. International Journal of Heat and Mass Transfer, 2016, 99, 872-881.	4.8	121
31	Natural convection in wavy enclosures with volumetric heat sources. International Journal of Thermal Sciences, 2011, 50, 502-514.	4.9	118
32	Flow of hybrid nanofluid across a permeable longitudinal moving fin along with thermal radiation and natural convection. Computer Methods and Programs in Biomedicine, 2020, 185, 105166.	4.7	114
33	Effects of different fin parameters on temperature and efficiency for cooling of photovoltaic panels under natural convection. Solar Energy, 2019, 188, 484-494.	6.1	112
34	Effects of partial shading on energy and exergy efficiencies for photovoltaic panels. Journal of Cleaner Production, 2017, 164, 58-69.	9.3	111
35	Insight into the investigation of diamond (C) and Silica (SiO2) nanoparticles suspended in water-based hybrid nanofluid with application in solar collector. Journal of Molecular Liquids, 2022, 357, 119134.	4.9	110
36	Analysis of MHD mixed convection in a flexible walled and nanofluids filled lid-driven cavity with volumetric heat generation. International Journal of Mechanical Sciences, 2016, 118, 113-124.	6.7	108

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37	Forecasting of thermal energy storage performance of Phase Change Material in a solar collector using soft computing techniques. Expert Systems With Applications, 2010, 37, 2724-2732.	7.6	105
38	Effect of uniform inclined magnetic field on mixed convection in a lid-driven cavity having a horizontal porous layer saturated with a ferrofluid. International Journal of Heat and Mass Transfer, 2017, 114, 1086-1097.	4.8	105
39	Heat transport of magnetized Newtonian nanoliquids in an annular space between porous vertical cylinders with discrete heat source. International Communications in Heat and Mass Transfer, 2020, 117, 104737.	5.6	105
40	MHD mixed convection of nanofluid filled partially heated triangular enclosure with a rotating adiabatic cylinder. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 2150-2162.	5.3	104
41	MHD natural convection in a partially open trapezoidal cavity filled with a nanofluid. International Journal of Mechanical Sciences, 2016, 119, 294-302.	6.7	103
42	Modeling and optimization of MHD mixed convection in a lid-driven trapezoidal cavity filled with aluminaâ€“water nanofluid: Effects of electrical conductivity models. International Journal of Mechanical Sciences, 2018, 136, 264-278.	6.7	101
43	A review on exergy analysis of solar electricity production. Renewable and Sustainable Energy Reviews, 2017, 74, 755-770.	16.4	99
44	Natural convection in a triangle enclosure with flush mounted heater on the wall. International Communications in Heat and Mass Transfer, 2006, 33, 951-958.	5.6	98
45	Entropy generation due to natural convection of a nanofluid in a partially open triangular cavity. Advanced Powder Technology, 2017, 28, 244-255.	4.1	98
46	MHD thermogravitational convection and thermal radiation of a micropolar nanoliquid in a porous chamber. International Communications in Heat and Mass Transfer, 2020, 110, 104409.	5.6	98
47	MHD natural convection and entropy generation in an open cavity having different horizontal porous blocks saturated with a ferrofluid. Journal of Magnetism and Magnetic Materials, 2018, 452, 193-204.	2.3	97
48	Conjugate natural convection in a nanofluid filled partitioned horizontal annulus formed by two isothermal cylinder surfaces under magnetic field. International Journal of Heat and Mass Transfer, 2017, 108, 156-171.	4.8	93
49	MHD Pulsating forced convection of nanofluid over parallel plates with blocks in a channel. International Journal of Mechanical Sciences, 2019, 157-158, 726-740.	6.7	93
50	Forced convection and thermal predictions of pulsating nanofluid flow over a backward facing step with a corrugated bottom wall. International Journal of Heat and Mass Transfer, 2017, 110, 231-247.	4.8	92
51	Effect of magnetic field on mixed convection and entropy generation of hybrid nanofluid in an inclined enclosure: Sensitivity analysis and optimization. European Physical Journal Plus, 2019, 134, 1.	2.6	91
52	Numerical Analysis of Al₂O₃/Water Nanofluids Natural Convection in a Wavy Walled Cavity. Numerical Heat Transfer; Part A: Applications, 2011, 59, 403-419.	2.1	90
53	Analysis of Entropy Generation in Natural Convection of Nanofluid inside a Square Cavity Having Hot Solid Block: Tiwari and Dasâ€™ Model. Entropy, 2016, 18, 9.	2.2	90
54	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

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55	Free convection and entropy generation of a nanofluid in a tilted triangular cavity exposed to a magnetic field with sinusoidal wall temperature distribution considering radiation effects. International Communications in Heat and Mass Transfer, 2020, 112, 104507.	5.6	90
56	Entropy generation between two vertical cylinders in the presence of MHD flow subjected to constant wall temperature. International Communications in Heat and Mass Transfer, 2013, 44, 87-92.	5.6	89
57	Natural convection in differentially heated and partially divided square cavities with internal heat generation. International Journal of Heat and Fluid Flow, 2006, 27, 466-475.	2.4	88
58	Identification of forced convection in pulsating flow at a backward facing step with a stationary cylinder subjected to nanofluid. International Communications in Heat and Mass Transfer, 2013, 45, 111-121.	5.6	88
59	Numerical investigation and reduced order model of mixed convection at a backward facing step with a rotating cylinder subjected to nanofluid. Computers and Fluids, 2015, 109, 27-37.	2.5	88
60	Prediction of flow fields and temperature distributions due to natural convection in a triangular enclosure using Adaptive-Network-Based Fuzzy Inference System (ANFIS) and Artificial Neural Network (ANN). International Communications in Heat and Mass Transfer, 2007, 34, 887-896.	5.6	87
61	Entropy production due to free convection in partially heated isosceles triangular enclosures. Applied Thermal Engineering, 2008, 28, 1502-1513.	6.0	86
62	Numerical analysis of natural convection for a porous rectangular enclosure with sinusoidally varying temperature profile on the bottom wall. International Communications in Heat and Mass Transfer, 2008, 35, 56-64.	5.6	86
63	Entropy generation due to natural convection in non-uniformly heated porous isosceles triangular enclosures at different positions. International Journal of Heat and Mass Transfer, 2009, 52, 1193-1205.	4.8	86
64	Numerical Study of Entropy Generation due to Coupled Laminar and Turbulent Mixed Convection and Thermal Radiation in an Enclosure Filled with a Semitransparent Medium. Scientific World Journal, The, 2014, 2014, 1-8.	2.1	86
65	Analysis of mixed convection of nanofluid in a 3D lid-driven trapezoidal cavity with flexible side surfaces and inner cylinder. International Communications in Heat and Mass Transfer, 2017, 87, 40-51.	5.6	86
66	MHD mixed convection and entropy generation of power law fluids in a cavity with a partial heater under the effect of a rotating cylinder. International Journal of Heat and Mass Transfer, 2016, 98, 40-51.	4.8	85
67	Experimental analysis and dynamic modeling of a photovoltaic module with porous fins. Renewable Energy, 2018, 125, 193-205.	8.9	85
68	3D magneto-convective heat transfer in CNT-nanofluid filled cavity under partially active magnetic field. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 99, 294-303.	2.7	85
69	Coupled FHDâ€“MHD free convection of a hybrid nanoliquid in an inversed T-shaped enclosure occupied by partitioned porous media. Numerical Heat Transfer; Part A: Applications, 2019, 76, 479-498.	2.1	85
70	4S consideration (synthesis, sonication, surfactant, stability) for the thermal conductivity of CeO2 with MWCNT and water based hybrid nanofluid: An experimental assessment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125918.	4.7	85
71	A comparative numerical study on natural convection in inclined wavy and flat-plate solar collectors. Building and Environment, 2008, 43, 1535-1544.	6.9	84
72	Energetic and exergetic aspects of solar air heating (solar collector) systems. Renewable and Sustainable Energy Reviews, 2013, 21, 59-83.	16.4	84

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73	Control of natural convection via inclined plate of CNT-water nanofluid in an open sided cubical enclosure under magnetic field. International Journal of Heat and Mass Transfer, 2017, 111, 1007-1018.	4.8	84
74	The effects of Prandtl number on natural convection in triangular enclosures with localized heating from below. International Communications in Heat and Mass Transfer, 2007, 34, 511-519.	5.6	83
75	Influence of inclination angle of magnetic field on mixed convection of nanofluid flow over a backward facing step and entropy generation. Advanced Powder Technology, 2015, 26, 1663-1675.	4.1	83
76	A heatline analysis of natural convection in a square inclined enclosure filled with a CuO nanofluid under non-uniform wall heating condition. International Journal of Heat and Mass Transfer, 2012, 55, 5076-5086.	4.8	82
77	Natural convection of alumina-water nanofluid in an open cavity having multiple porous layers. International Journal of Heat and Mass Transfer, 2018, 125, 648-657.	4.8	82
78	Irreversibility analysis of a vertical annulus using TiO2/water nanofluid with MHD flow effects. International Journal of Heat and Mass Transfer, 2013, 64, 671-679.	4.8	81
79	Effects of thin fin on natural convection in porous triangular enclosures. International Journal of Thermal Sciences, 2007, 46, 1033-1045.	4.9	80
80	Mixed convection of Al2O3-water nanofluid in a lid-driven cavity having two porous layers. International Journal of Heat and Mass Transfer, 2018, 118, 527-537.	4.8	80
81	Fluid-solid interaction of elastic-step type corrugation effects on the mixed convection of nanofluid in a vented cavity with magnetic field. International Journal of Mechanical Sciences, 2019, 152, 185-197.	6.7	80
82	A Review on the Control Parameters of Natural Convection in Different Shaped Cavities with and without Nanofluid. Processes, 2020, 8, 1011.	2.8	80
83	Magnetohydrodynamics forced convection of nanofluid in multi-layered U-shaped vented cavity with a porous region considering wall corrugation effects. International Communications in Heat and Mass Transfer, 2020, 113, 104551.	5.6	79
84	Entropy generation due to conjugate natural convection in enclosures bounded by vertical solid walls with different thicknesses. International Communications in Heat and Mass Transfer, 2008, 35, 648-656.	5.6	78
85	Natural convection in a CuOâ€“water nanofluid filled cavity under the effect of an inclined magnetic field and phase change material (PCM) attached to its vertical wall. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1577-1594.	3.6	78
86	Mixed convection due to rotating cylinder in an internally heated and flexible walled cavity filled with SiO 2 â€“water nanofluids: Effect of nanoparticle shape. International Communications in Heat and Mass Transfer, 2016, 71, 9-19.	5.6	77
87	Control of mixed convection in lid-driven enclosures using conductive triangular fins. International Journal of Heat and Mass Transfer, 2011, 54, 894-909.	4.8	76
88	Computational analysis of non-isothermal temperature distribution on natural convection in nanofluid filled enclosures. Superlattices and Microstructures, 2011, 49, 453-467.	3.1	76
89	Natural convection of ferrofluids in partially heated square enclosures. Journal of Magnetism and Magnetic Materials, 2014, 372, 122-133.	2.3	76
90	Melting of phase change materials in a trapezoidal cavity: Orientation and nanoparticles effects. Journal of Molecular Liquids, 2019, 292, 110592.	4.9	76

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91	Visualization of natural convection heat transport using heatline method in porous non-isothermally heated triangular cavity. International Journal of Heat and Mass Transfer, 2008, 51, 5040-5051.	4.8	75
92	Natural convection in right-angle porous trapezoidal enclosure partially cooled from inclined wall. International Communications in Heat and Mass Transfer, 2009, 36, 6-15.	5.6	75
93	Heatline visualization of natural convection in a thick walled open cavity filled with a nanofluid. International Journal of Heat and Mass Transfer, 2017, 109, 175-186.	4.8	75
94	Comparison of position of a heated thin plate located in a cavity for natural convection. International Communications in Heat and Mass Transfer, 2004, 31, 121-132.	5.6	74
95	Entropy generation for natural convection in Î“-shaped enclosures. International Communications in Heat and Mass Transfer, 2007, 34, 502-510.	5.6	74
96	Natural convection in partially cooled and inclined porous rectangular enclosures. International Journal of Thermal Sciences, 2007, 46, 149-156.	4.9	73
97	Magnetohydrodynamic natural convection in trapezoidal cavities. International Communications in Heat and Mass Transfer, 2012, 39, 1384-1394.	5.6	73
98	Numerical investigation of a novel tube design for the geothermal borehole heat exchanger. Applied Thermal Engineering, 2015, 79, 153-162.	6.0	73
99	Numerical and experimental analysis of moisture transfer for convective drying of some products. International Communications in Heat and Mass Transfer, 2008, 35, 169-177.	5.6	72
100	Finite element solution of MHD mixed convection in a channel with a fully or partially heated cavity. Computers and Fluids, 2013, 79, 53-64.	2.5	72
101	Mixed convection of MHD flow in nanofluid filled and partially heated wavy walled lid-driven enclosure. International Communications in Heat and Mass Transfer, 2017, 86, 42-51.	5.6	71
102	Natural convection of Al2O3/H2O nanofluid in a cavity with a heat-generating element. Heatline visualization. International Journal of Heat and Mass Transfer, 2019, 130, 564-574.	4.8	71
103	Numerical simulation of magnetohydrodynamic buoyancy-induced flow in a non-isothermally heated square enclosure. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 770-778.	3.3	70
104	Inclined Lorentz force impact on convective-radiative heat exchange of micropolar nanofluid inside a porous enclosure with tilted elliptical heater. International Communications in Heat and Mass Transfer, 2020, 117, 104762.	5.6	70
105	Analysis of cooling load on commercial building in UAE climate using building integrated photovoltaic faÃ§ade system. Solar Energy, 2020, 199, 617-629.	6.1	70
106	Analysis of hybrid nanofluid and surface corrugation in the laminar convective flow through an encapsulated PCM filled vertical cylinder and POD-based modeling. International Journal of Heat and Mass Transfer, 2021, 178, 121623.	4.8	70
107	Natural convection heat transfer by heated partitions within enclosure. International Communications in Heat and Mass Transfer, 2001, 28, 823-834.	5.6	68
108	Effects of moving lid direction on MHD mixed convection in a linearly heated cavity. International Journal of Heat and Mass Transfer, 2012, 55, 1103-1112.	4.8	68

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109	Forced convection of ferrofluids in a vented cavity with a rotating cylinder. International Journal of Thermal Sciences, 2014, 86, 258-275.	4.9	68
110	Combined convection heat transfer in a porous lid-driven enclosure due to heater with finite length. International Communications in Heat and Mass Transfer, 2006, 33, 772-779.	5.6	66
111	Analysis and predictive modeling of nanofluid-jet impingement cooling of an isothermal surface under the influence of a rotating cylinder. International Journal of Heat and Mass Transfer, 2018, 121, 233-245.	4.8	66
112	Investigation of pollutant reduction by simulation of turbulent non-premixed pulverized coal combustion. Applied Thermal Engineering, 2014, 73, 1222-1235.	6.0	65
113	Mixed convection in a partially heated triangular cavity filled with nanofluid having a partially flexible wall and internal heat generation. Journal of the Taiwan Institute of Chemical Engineers, 2017, 70, 168-178.	5.3	65
114	Magnetic field effects on the forced convection of CuO-water nanofluid flow in a channel with circular cylinders and thermal predictions using ANFIS. International Journal of Mechanical Sciences, 2018, 146-147, 9-24.	6.7	65
115	Optimal entropy generation in Darcy-Forchheimer magnetized flow in a square enclosure filled with silver based water nanoliquid. Journal of Thermal Analysis and Calorimetry, 2022, 147, 1571-1581.	3.6	65
116	Numerical analysis of laminar pulsating flow at a backward facing step with an upper wall mounted adiabatic thin fin. Computers and Fluids, 2013, 88, 93-107.	2.5	64
117	Role of magnetic field on forced convection of nanofluid in a branching channel. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 30, 1755-1772.	2.8	64
118	Mixed convection in a PCM filled cavity under the influence of a rotating cylinder. Solar Energy, 2020, 200, 61-75.	6.1	64
119	Natural convection in triangular enclosures with protruding isothermal heater. International Journal of Heat and Mass Transfer, 2007, 50, 2451-2462.	4.8	63
120	Numerical analysis of natural convection in an inclined trapezoidal enclosure filled with a porous medium. International Journal of Thermal Sciences, 2008, 47, 1316-1331.	4.9	63
121	Mixed convection in a two-sided elastic walled and SiO2 nanofluid filled cavity with internal heat generation: Effects of inner rotating cylinder and nanoparticle's shape. Journal of Molecular Liquids, 2015, 212, 509-516.	4.9	62
122	Natural convection in a flexible sided triangular cavity with internal heat generation under the effect of inclined magnetic field. Journal of Magnetism and Magnetic Materials, 2016, 417, 327-337.	2.3	61
123	Natural convection of CNT water-based nanofluids in a differentially heated square cavity. Journal of Thermal Analysis and Calorimetry, 2017, 128, 1765-1770.	3.6	61
124	Natural convection and entropy generation in a nanofluid filled cavity with thick bottom wall: Effects of non-isothermal heating. International Journal of Mechanical Sciences, 2017, 126, 95-105.	6.7	61
125	MHD mixed convection in a nanofluid filled vertical lid-driven cavity having a flexible fin attached to its upper wall. Journal of Thermal Analysis and Calorimetry, 2019, 135, 325-340.	3.6	61
126	Turbulence forced convection heat transfer over double forward facing step flow. International Communications in Heat and Mass Transfer, 2006, 33, 508-517.	5.6	60

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127	Natural Convection and Entropy Generation in Nanofluid Filled Entrapped Trapezoidal Cavities under the Influence of Magnetic Field. Entropy, 2016, 18, 43.	2.2	60
128	Role of magnetic field and surface corrugation on natural convection in a nanofluid filled 3D trapezoidal cavity. International Communications in Heat and Mass Transfer, 2018, 95, 182-196.	5.6	60
129	Natural convection in porous triangular enclosures with a solid adiabatic fin attached to the horizontal wall. International Communications in Heat and Mass Transfer, 2007, 34, 19-27.	5.6	59
130	Entropy analysis due to conjugate-buoyant flow in a right-angle trapezoidal enclosure filled with a porous medium bounded by a solid vertical wall. International Journal of Thermal Sciences, 2009, 48, 1161-1175.	4.9	59
131	Numerical analysis and ANFIS modeling for mixed convection of CNT-water nanofluid filled branching channel with an annulus and a rotating inner surface at the junction. International Journal of Heat and Mass Transfer, 2018, 127, 583-599.	4.8	59
132	Natural convection in a vertically divided square enclosure by a solid partition into air and water regions. International Journal of Heat and Mass Transfer, 2009, 52, 5909-5921.	4.8	58
133	Double-diffusive natural convection in a triangular solar collector. International Communications in Heat and Mass Transfer, 2012, 39, 264-269.	5.6	58
134	Mixed convection and role of multiple solutions in lid-driven trapezoidal enclosures. International Journal of Heat and Mass Transfer, 2013, 63, 366-388.	4.8	58
135	Fluidâ€“structure-magnetic field interaction in a nanofluid filled lid-driven cavity with flexible side wall. European Journal of Mechanics, B/Fluids, 2017, 61, 77-85.	2.5	58
136	Buoyancy induced heat transfer and fluid flow inside a tilted wavy solar collector. Building and Environment, 2007, 42, 2062-2071.	6.9	57
137	Natural convection and fluid flow in inclined enclosure with a corner heater. Applied Thermal Engineering, 2009, 29, 340-350.	6.0	57
138	Thermal management of water-based carbon nanotubes enclosed in a partially heated triangular cavity with heated cylindrical obstacle. International Journal of Heat and Mass Transfer, 2019, 131, 724-736.	4.8	57
139	Thermal management and performance improvement by using coupled effects of magnetic field and phase change material for hybrid nanoliquid convection through a 3D vented cylindrical cavity. International Journal of Heat and Mass Transfer, 2022, 183, 122233.	4.8	57
140	Free convection in porous media filled right-angle triangular enclosures. International Communications in Heat and Mass Transfer, 2006, 33, 1190-1197.	5.6	56
141	Natural convection of a nanofluid between two eccentric cylinders saturated by porous material: Buongiornoâ€™s two phase model. International Journal of Heat and Mass Transfer, 2018, 127, 67-75.	4.8	56
142	Effects of conductive curved partition and magnetic field on natural convection and entropy generation in an inclined cavity filled with nanofluid. Physica A: Statistical Mechanics and Its Applications, 2020, 540, 123004.	2.6	56
143	Mixed convection of Al2O3â€“H2O nanoliquid in a square chamber with complicated fin. International Journal of Mechanical Sciences, 2020, 165, 105192.	6.7	55
144	Fuzzy-based estimation of mixed convection heat transfer in a square cavity in the presence of an adiabatic inclined fin. International Communications in Heat and Mass Transfer, 2012, 39, 1639-1646.	5.6	54

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145	Numerical study and identification of cooling of heated blocks in pulsating channel flow with a rotating cylinder. International Journal of Thermal Sciences, 2014, 79, 132-145.	4.9	54
146	Jet impingement cooling and optimization study for a partly curved isothermal surface with CuO-water nanofluid. International Communications in Heat and Mass Transfer, 2017, 89, 211-218.	5.6	54
147	An analysis of entropy generation through a circular duct with different shaped longitudinal fins for laminar flow. International Journal of Heat and Mass Transfer, 2005, 48, 171-181.	4.8	53
148	Numerical Study and POD-Based Prediction of Natural Convection in a Ferrofluidsâ€“Filled Triangular Cavity with Generalized Neural Networks. Numerical Heat Transfer; Part A: Applications, 2015, 67, 1136-1161.	2.1	53
149	Convective heat transfer of ferrofluid in a lid-driven cavity with a heat-conducting solid backward step under the effect of a variable magnetic field. Numerical Heat Transfer; Part A: Applications, 2017, 72, 54-67.	2.1	53
150	Effects of inclined magnetic field on mixed convection in a nanofluid filled double lid-driven cavity with volumetric heat generation or absorption using finite element method. Chinese Journal of Physics, 2018, 56, 484-501.	3.9	53
151	MHD mixed convective heat transfer in a lid-driven enclosure filled with Ag-water nanofluid with center heater. International Journal of Mechanical Sciences, 2018, 142-143, 407-419.	6.7	53
152	Natural convection of Al2O3/H2O nanofluid in an open inclined cavity with a heat-generating element. International Journal of Heat and Mass Transfer, 2018, 126, 184-191.	4.8	53
153	Exergy analysis of a circulating fluidized bed boiler cogeneration power plant. Energy Conversion and Management, 2016, 120, 346-357.	9.2	52
154	Free convection in a shallow wavy enclosure. International Communications in Heat and Mass Transfer, 2006, 33, 764-771.	5.6	51
155	MHD natural convective flow of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si33.svg"><mml:mrow><mml:msub><mml:mtext>Fe</mml:mtext><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi linebreak="goodbreak">â^'</mml:mo><mml:msub><mml:mtext>H</mml:mtext><mml:mn>2</mml:mn></mml:msub><mml:mtext>O</mml:mtext> ferrofluids in an inclined partial open complex-wavy-walls ringed enclosures using non-linear Boussinesq approximation. International Journal of Mechanical Sciences, 2020, 170, 105352.	6.7	51
156	MHD natural convection in an enclosure from two semi-circular heaters on the bottom wall. International Journal of Heat and Mass Transfer, 2012, 55, 1844-1854.	4.8	50
157	Effect of geometrical parameters on natural convection in a porous undulant-wall enclosure saturated by a nanofluid using Buongiorno's model. Journal of Molecular Liquids, 2018, 255, 148-159.	4.9	50
158	Natural convective heat transfer of Ag-water nanofluid flow inside enclosure with center heater and bottom heat source. Chinese Journal of Physics, 2018, 56, 1497-1507.	3.9	50
159	Conjugate mixed convection of nanofluid in a cubic enclosure separated with a conductive plate and having an inner rotating cylinder. International Journal of Heat and Mass Transfer, 2019, 139, 1000-1017.	4.8	50
160	A computational work on a three dimensional analysis of natural convection and entropy generation in nanofluid filled enclosures with triangular solid insert at the corners. Journal of Molecular Liquids, 2016, 218, 260-274.	4.9	49
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