Mikhail A Sheremet

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4669612/publications.pdf

Version: 2024-02-01

338 papers	12,013 citations	19608 61 h-index	51492 86 g-index

341 all docs	341 docs citations	341 times ranked	3045 citing authors

#	Article	IF	Citations
1	Variable magnetic forces impact on magnetizable hybrid nanofluid heat transfer through a circular cavity. Journal of Molecular Liquids, 2019, 277, 388-396.	2.3	225
2	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.	1.0	188
3	Numerical simulation of natural convection heat transfer inside a â”´ shaped cavity filled by a MWCNT-Fe3O4/water hybrid nanofluids using LBM. Chemical Engineering and Processing: Process Intensification, 2018, 125, 56-66.	1.8	173
4	Conjugate natural convection in a square porous cavity filled by a nanofluid using Buongiornoâ€™s mathematical model. International Journal of Heat and Mass Transfer, 2014, 79, 137-145.	2.5	162
5	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.	3.6	160
6	Numerical study of MHD nanofluid natural convection in a baffled U-shaped enclosure. International Journal of Heat and Mass Transfer, 2019, 130, 123-134.	2.5	159
7	Free Convection in a Square Cavity Filled with a Porous Medium Saturated by Nanofluid Using Tiwari and Dasâ€™ Nanofluid Model. Transport in Porous Media, 2015, 106, 595-610.	1.2	154
8	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.	2.5	150
9	Natural convection in an inclined cavity with time-periodic temperature boundary conditions using nanofluids: Application in solar collectors. International Journal of Heat and Mass Transfer, 2018, 116, 751-761.	2.5	149
10	Numerical Analysis of Unsteady Conjugate Natural Convection of Hybrid Water-Based Nanofluid in a Semicircular Cavity. Journal of Thermal Science and Engineering Applications, 2017, 9, .	0.8	145
11	Natural convection and entropy generation of a ferrofluid in a square enclosure under the effect of a horizontal periodic magnetic field. Journal of Molecular Liquids, 2018, 263, 510-525.	2.3	140
12	Magnetic field effect on the unsteady natural convection in a wavy-walled cavity filled with a nanofluid: Buongiorno's mathematical model. Journal of the Taiwan Institute of Chemical Engineers, 2016, 61, 211-222.	2.7	137
13	Three-dimensional natural convection in a porous enclosure filled with a nanofluid using Buongiornoâ€™s mathematical model. International Journal of Heat and Mass Transfer, 2015, 82, 396-405.	2.5	132
14	Natural convection flow of a suspension containing nano-encapsulated phase change particles in an eccentric annulus. Journal of Energy Storage, 2020, 28, 101236.	3.9	131
15	Natural convection of magnetic hybrid nanofluid inside a double-porous medium using two-equation energy model. Journal of Molecular Liquids, 2019, 277, 959-970.	2.3	125
16	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.	1.6	123
17	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.	2.5	121
18	Turbulent natural convection heat transfer in rectangular enclosures using experimental and numerical approaches: A review. Renewable and Sustainable Energy Reviews, 2018, 82, 40-59.	8.2	116

#	Article	IF	Citations
19	Heat transfer performance of the finned nano-enhanced phase change material system under the inclination influence. International Journal of Heat and Mass Transfer, 2019, 135, 1063-1072.	2.5	116
20	Local thermal non-equilibrium analysis of conjugate free convection within a porous enclosure occupied with Agâ€“MgO hybrid nanofluid. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1381-1398.	2.0	114
21	Free convection in a partially heated wavy porous cavity filled with a nanofluid under the effects of Brownian diffusion and thermophoresis. Applied Thermal Engineering, 2017, 113, 413-418.	3.0	113
22	Mixed convection in a lid-driven square cavity filled by a nanofluid: Buongiorno's mathematical model. Applied Mathematics and Computation, 2015, 266, 792-808.	1.4	106
23	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.	2.5	105
24	MHD natural convection and entropy generation of ferrofluids in a cavity with a non-uniformly heated horizontal plate. International Journal of Mechanical Sciences, 2018, 149, 326-337.	3.6	105
25	Heat transfer inside cooling system based on phase change material with alumina nanoparticles. Applied Thermal Engineering, 2018, 144, 972-981.	3.0	104
26	MHD natural convection in a partially open trapezoidal cavity filled with a nanofluid. International Journal of Mechanical Sciences, 2016, 119, 294-302.	3.6	103
27	Conjugate heat transfer in the PCM-based heat storage system with finned copper profile: Application in electronics cooling. International Journal of Heat and Mass Transfer, 2018, 124, 1275-1284.	2.5	102
28	Natural convection of a hybrid nanofluid affected by an inclined periodic magnetic field within a porous medium. Chinese Journal of Physics, 2020, 65, 447-458.	2.0	100
29	Entropy generation due to natural convection of a nanofluid in a partially open triangular cavity. Advanced Powder Technology, 2017, 28, 244-255.	2.0	98
30	MHD thermogravitational convection and thermal radiation of a micropolar nanoliquid in a porous chamber. International Communications in Heat and Mass Transfer, 2020, 110, 104409.	2.9	98
31	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.	1.0	97
32	Natural Convection in a Square Porous Cavity with Sinusoidal Temperature Distributions on Both Side Walls Filled with a Nanofluid: Buongiornoâ€™s Mathematical Model. Transport in Porous Media, 2014, 105, 411-429.	1.2	95
33	Free Convection in a Parallelogrammic Porous Cavity Filled with a Nanofluid Using Tiwari and Dasâ€™ Nanofluid Model. PLoS ONE, 2015, 10, e0126486.	1.1	95
34	Thermo-Bioconvection in a Square Porous Cavity Filled by Oxytactic Microorganisms. Transport in Porous Media, 2014, 103, 191-205.	1.2	92
35	Effect of thermal dispersion on transient natural convection in a wavy-walled porous cavity filled with a nanofluid: Tiwari and Dasâ€™ nanofluid model. International Journal of Heat and Mass Transfer, 2016, 92, 1053-1060.	2.5	92
36	Numerical investigation of natural convection of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si58.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Al</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn> nanofluid in a wavy cavity with conductive inner block using Buongiornoâ€™s two-phase model. Advanced Powder Technology, 2019, 30, 399-414.	2.0	92

#	Article	IF	Citations
37	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.	1.1	90
38	MHD natural convection in an inclined square porous cavity with a heat conducting solid block. Journal of Magnetism and Magnetic Materials, 2017, 426, 351-360.	1.0	87
39	Unsteady free convection in a porous open wavy cavity filled with a nanofluid using Buongiorno's mathematical model. International Communications in Heat and Mass Transfer, 2015, 67, 66-72.	2.9	86
40	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.	1.2	85
41	Melting heat transfer of power-law non-Newtonian phase change nano-enhanced n-octadecane-mesoporous silica (MPSiO2). International Journal of Heat and Mass Transfer, 2020, 151, 119385.	2.5	84
42	Natural convection in a square cavity filled with a porous medium saturated with a nanofluid using the thermal nonequilibrium model with a Tiwari and Das nanofluid model. International Journal of Mechanical Sciences, 2015, 100, 312-321.	3.6	82
43	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.	2.5	82
44	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.	2.5	80
45	Numerical simulation of thermogravitational energy transport of a hybrid nanoliquid within a porous triangular chamber using the two-phase mixture approach. Advanced Powder Technology, 2020, 31, 2493-2504.	2.0	77
46	Conjugate natural convection of Al2O3â€“water nanofluid in a square cavity with a concentric solid insert using Buongiornoâ€™s two-phase model. International Journal of Mechanical Sciences, 2018, 136, 200-219.	3.6	76
47	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
48	Conjugate natural convection combined with surface thermal radiation in a three-dimensional enclosure with a heat source. International Journal of Heat and Mass Transfer, 2014, 73, 340-353.	2.5	75
49	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.	2.5	75
50	Dual solutions for Casson hybrid nanofluid flow due to a stretching/shrinking sheet: A new combination of theoretical and experimental models. Chinese Journal of Physics, 2021, 71, 574-588.	2.0	74
51	Effect of thermal stratification on free convection in a square porous cavity filled with a nanofluid using Tiwari and Das' nanofluid model. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 69, 332-341.	1.3	73
52	Natural convection of CuO-water micropolar nanofluids inside a porous enclosure using local thermal non-equilibrium condition. Journal of the Taiwan Institute of Chemical Engineers, 2018, 88, 89-103.	2.7	73
53	Nanoparticle migration and natural convection heat transfer of Cu-water nanofluid inside a porous undulant-wall enclosure using LTNE and two-phase model. Journal of Molecular Liquids, 2018, 261, 357-372.	2.3	71
54	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.	2.5	71

#	Article	IF	Citations
55	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.	2.9	70
56	Free convective melting-solidification heat transfer of nano-encapsulated phase change particles suspensions inside a coaxial pipe. Advanced Powder Technology, 2020, 31, 4470-4481.	2.0	70
57	Comprehensive investigation of solid and porous fins influence on natural convection in an inclined rectangular enclosure. International Journal of Heat and Mass Transfer, 2019, 133, 729-744.	2.5	69
58	Conjugate natural convection combined with surface thermal radiation in an air filled cavity with internal heat source. International Journal of Thermal Sciences, 2014, 76, 51-67.	2.6	68
59	CVFEM approach for EHD flow of nanofluid through porous medium within a wavy chamber under the impacts of radiation and moving walls. Journal of Thermal Analysis and Calorimetry, 2019, 138, 573-581.	2.0	68
60	A numerical simulation of double-diffusive conjugate natural convection in an enclosure. International Journal of Thermal Sciences, 2011, 50, 1878-1886.	2.6	67
61	Mixed convection of hybrid nanofluid in a porous trapezoidal chamber. International Communications in Heat and Mass Transfer, 2020, 116, 104627.	2.9	67
62	Time-dependent natural convection of micropolar fluid in a wavy triangular cavity. International Journal of Heat and Mass Transfer, 2017, 105, 610-622.	2.5	66
63	The influence of cross effects on the characteristics of heat and mass transfer in the conditions of conjugate natural convection. Journal of Engineering Thermophysics, 2010, 19, 119-127.	0.6	65
64	Effect of nanoparticle shape on the performance of thermal systems utilizing nanofluids: A critical review. Journal of Molecular Liquids, 2021, 321, 114430.	2.3	63
65	Free convection in a porous wavy cavity filled with a nanofluid using Buongiorno's mathematical model with thermal dispersion effect. Applied Mathematics and Computation, 2017, 299, 1-15.	1.4	62
66	Analysis of conjugate natural convection within a porous square enclosure occupied with micropolar nanofluid using local thermal non-equilibrium model. Journal of Molecular Liquids, 2018, 250, 353-368.	2.3	62
67	Conjugate heat transfer in an enclosure under the condition of internal mass transfer and in the presence of the local heat source. International Journal of Heat and Mass Transfer, 2009, 52, 1-8.	2.5	61
68	Unsteady conjugate natural convection in a square enclosure filled with a porous medium. International Journal of Heat and Mass Transfer, 2010, 53, 5308-5320.	2.5	60
69	Effect of inclined magnetic field on natural convection melting in a square cavity with a local heat source. Journal of Magnetism and Magnetic Materials, 2016, 419, 476-484.	1.0	60
70	Flow and heat transfer evolution of PCM due to natural convection melting in a square cavity with a local heater. International Journal of Mechanical Sciences, 2017, 134, 610-619.	3.6	60
71	Examining of nanofluid natural convection heat transfer in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e828" altimg="si8.gif"><mml:mi>Î“</mml:mi></mml:math>-shaped enclosure including a rectangular hot obstacle using the lattice Boltzmann method. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 120831.	1.2	60
72	Unsteady Conjugate Natural Convection in a Vertical Cylinder Partially Filled with a Porous Medium. Numerical Heat Transfer; Part A: Applications, 2013, 64, 994-1015.	1.2	56

#	Article	IF	Citations
73	Conjugate natural convection in an enclosure with a heat source of constant heat transfer rate. International Journal of Heat and Mass Transfer, 2011, 54, 260-268.	2.5	55
74	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
75	Mixed convection of Al2O3â€“H2O nanoliquid in a square chamber with complicated fin. International Journal of Mechanical Sciences, 2020, 165, 105192.	3.6	55
76	Numerical simulation of turbulent natural convection in a rectangular enclosure having finite thickness walls. International Journal of Heat and Mass Transfer, 2010, 53, 163-177.	2.5	54
77	Free convection in a porous horizontal cylindrical annulus with a nanofluid using Buongiornoâ€™s model. Computers and Fluids, 2015, 118, 182-190.	1.3	54
78	Thermogravitational convection of magnetic micropolar nanofluid with coupling between energy and angular momentum equations. International Journal of Heat and Mass Transfer, 2019, 145, 118748.	2.5	54
79	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.	1.2	53
80	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.	2.5	53
81	Magnetohydrodynamics flow of a nanofluid driven by a stretching/shrinking sheet with suction. SpringerPlus, 2016, 5, 1901.	1.2	52
82	Natural convection of micropolar fluid in a wavy differentially heated cavity. Journal of Molecular Liquids, 2016, 221, 518-525.	2.3	52
83	Simulation of nanoliquid thermogravitational convection within a porous chamber imposing magnetic and radiation impacts. Physica A: Statistical Mechanics and Its Applications, 2020, 550, 124058.	1.2	52
84	Double-Diffusive Mixed Convection in a Porous Open Cavity Filled with a Nanofluid Using Buongiornoâ€™s Model. Transport in Porous Media, 2015, 109, 131-145.	1.2	50
85	Free convection in a square cavity filled with a Casson fluid under the effects of thermal radiation and viscous dissipation. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 2318-2332.	1.6	50
86	MHD natural convection of Cu/H₂O nanofluid in a horizontal semi-cylinder with a local triangular heater. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 2979-2996.	1.6	50
87	Free Convection in Shallow and Slender Porous Cavities Filled by a Nanofluid Using Buongiorno's Model. Journal of Heat Transfer, 2014, 136, .	1.2	49
88	Conjugate natural convection with radiation in an enclosure. International Journal of Heat and Mass Transfer, 2009, 52, 2215-2223.	2.5	47
89	Laminar natural convection in an inclined cylindrical enclosure having finite thickness walls. International Journal of Heat and Mass Transfer, 2012, 55, 3582-3600.	2.5	47
90	Free convection in a trapezoidal cavity filled with a micropolar fluid. International Journal of Heat and Mass Transfer, 2016, 99, 831-838.	2.5	47

#	Article	IF	Citations
91	Natural convection heat transfer combined with melting process in a cubical cavity under the effects of uniform inclined magnetic field and local heat source. International Journal of Heat and Mass Transfer, 2017, 108, 1057-1067.	2.5	47
92	A comparative study of Al₂O₃ and TiO₂ nanofluid flow over a wedge with non-linear thermal radiation. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 1291-1317.	1.6	47
93	MHD free convection flow in an inclined square cavity filled with both nanofluids and gyrotactic microorganisms. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 4642-4659.	1.6	46
94	Impact of hybrid nanofluids on MHD flow and heat transfer near a vertical plate with ramped wall temperature. Case Studies in Thermal Engineering, 2021, 28, 101557.	2.8	46
95	Thermal conductivity and dynamic viscosity modeling of Fe₂O₃/water nanofluid by applying various connectionist approaches. Numerical Heat Transfer; Part A: Applications, 2018, 74, 1301-1322.	1.2	44
96	Characteristics of Rosseland and P-1 approximations in modeling nonstationary conditions of convection-radiation heat transfer in an enclosure with a local energy source. Journal of Engineering Thermophysics, 2012, 21, 111-118.	0.6	43
97	Effect of local heater size and position on natural convection in a tilted nanofluid porous cavity using LTNE and Buongiorno's models. Journal of Molecular Liquids, 2018, 266, 19-28.	2.3	43
98	Mass transpiration on Newtonian flow over a porous stretching/shrinking sheet with slip. Chinese Journal of Physics, 2020, 63, 130-137.	2.0	43
99	Shape factor effect of radiative Cuâ€“Al2O3/H2O hybrid nanofluid flow towards an EMHD plate. Case Studies in Thermal Engineering, 2021, 26, 101199.	2.8	43
100	Effects of Dufour and Soret mechanisms on MHD mixed convective-radiative non-Newtonian liquid flow and heat transfer over a porous sheet. Thermal Science and Engineering Progress, 2020, 16, 100459.	1.3	42
101	A two-phase closed thermosyphon operated with nanofluids for solar energy collectors: Thermodynamic modeling and entropy generation analysis. Solar Energy, 2020, 211, 192-209.	2.9	42
102	Mixed Convection of Silicaâ€“Molybdenum Disulphide/Water Hybrid Nanoliquid over a Rough Sphere. Symmetry, 2021, 13, 236.	1.1	42
103	Convective heat transfer of micropolar fluid in a horizontal wavy channel under the local heating. International Journal of Mechanical Sciences, 2017, 128-129, 541-549.	3.6	41
104	Natural convection combined with thermal radiation in a square cavity filled with a viscoelastic fluid. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 624-640.	1.6	40
105	Two-dimensional problem of natural convection in a rectangular domain with local heating and heat-conducting boundaries of finite thickness. Fluid Dynamics, 2006, 41, 881-890.	0.2	39
106	Mixed Convection in a Ventilated Cavity Filled with a Triangular Porous Layer. Transport in Porous Media, 2017, 120, 1-21.	1.2	39
107	The influence of thermal radiation on unsteady free convection in inclined enclosures filled by a nanofluid with sinusoidal boundary conditions. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 1738-1753.	1.6	39
108	Nonsimilar convective thermal transport analysis of EMHD stagnation Casson nanofluid flow subjected to particle shape factor and thermal radiations. International Communications in Heat and Mass Transfer, 2022, 137, 106230.	2.9	39

#	Article	IF	Citations
109	Free convection in a square porous cavity filled with a nanofluid using thermal non equilibrium and Buongiorno models. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 671-693.	1.6	38
110	Entropy generation analysis of triple diffusive flow past a horizontal plate in porous medium. Chemical Engineering Science, 2020, 228, 115980.	1.9	38
111	Mathematical modelling of complex heat transfer in a rectangular enclosure. Thermophysics and Aeromechanics, 2009, 16, 119-128.	0.1	37
112	Transient natural convection in a partially open trapezoidal cavity filled with a water-based nanofluid under the effects of Brownian diffusion and thermophoresis. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 606-623.	1.6	37
113	Numerical simulation of MHD natural convection flow in a wavy cavity filled by a hybrid Cu-Al2O3-water nanofluid with discrete heating. Applied Mathematics and Mechanics (English) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.4	37
114	3D natural convection melting in a cubical cavity with a heat source. International Journal of Thermal Sciences, 2017, 115, 43-53.	2.6	36
115	Natural Convection and Entropy Generation in a Square Cavity with Variable Temperature Side Walls Filled with a Nanofluid: Buongiornoâ€™s Mathematical Model. Entropy, 2017, 19, 337.	1.1	36
116	Natural convection in a cubical cavity with different heat source configurations. Thermal Science and Engineering Progress, 2018, 7, 138-145.	1.3	36
117	Forced Convection of Fe3O4-Water Nanofluid in a Bifurcating Channel under the Effect of Variable Magnetic Field. Energies, 2019, 12, 666.	1.6	36
118	Natural convection in a trapezoidal cavity filled with a micropolar fluid under the effect of a local heat source. International Journal of Mechanical Sciences, 2017, 120, 182-189.	3.6	35
119	Turbulent natural convection combined with thermal surface radiation inside an inclined cavity having local heater. International Journal of Thermal Sciences, 2018, 124, 122-130.	2.6	35
120	Mixed convection heat transfer in a square porous cavity filled with a nanofluid with suction/injection effect. Computers and Mathematics With Applications, 2018, 76, 2665-2677.	1.4	35
121	Unsteady General Three-Dimensional Stagnation Point Flow of a Maxwell/Buongiorno Non-Newtonian Nanofluid. Journal of Nanofluids, 2019, 8, 1544-1559.	1.4	35
122	Mixed convection with entropy generation of nanofluid in a lid-driven cavity under the effects of a heat-conducting solid wall and vertical temperature gradient. European Journal of Mechanics, B/Fluids, 2018, 70, 148-159.	1.2	34
123	Unsteady Conjugate Natural Convection in a Vertical Cylinder Containing a Horizontal Porous Layer: Darcy Model and Brinkman-Extended Darcy Model. Transport in Porous Media, 2014, 101, 437-463.	1.2	33
124	Effect of uniform inclined magnetic field on natural convection and entropy generation in an open cavity having a horizontal porous layer saturated with a ferrofluid. Numerical Heat Transfer; Part A: Applications, 2017, 72, 479-494.	1.2	33
125	Magnetohydrodynamic in partially heated square cavity with variable properties: Discrepancy in experimental and theoretical conductivity correlations. International Journal of Heat and Mass Transfer, 2018, 116, 532-548.	2.5	32
126	Mixed convection heat transfer of a nanofluid in a lid-driven enclosure with two adherent porous blocks. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1095-1105.	2.0	32

#	Article	IF	Citations
127	Precise prediction of biogas thermodynamic properties by using ANN algorithm. Renewable Energy, 2020, 147, 179-191.	4.3	32
128	Numerical study of mixed bio-convection associated with a micropolar fluid. Thermal Science and Engineering Progress, 2020, 18, 100539.	1.3	32
129	Natural convection in a partially heated wavy cavity filled with a nanofluid using Buongiornoâ€™s nanofluid model. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 924-940.	1.6	31
130	Natural convective heat transfer through two entrapped triangular cavities filled with a nanofluid: Buongiorno's mathematical model. International Journal of Mechanical Sciences, 2017, 133, 484-494.	3.6	31
131	Natural Convection of Non-Newtonian Power-Law Fluid in a Square Cavity with a Heat-Generating Element. Energies, 2019, 12, 2149.	1.6	31
132	Computational Study of Heat Transfer inside Different PCMs Enhanced by Al2O3 Nanoparticles in a Copper Heat Sink at High Heat Loads. Nanomaterials, 2020, 10, 284.	1.9	31
133	Enhancement of heat and mass transfer rates through various porous cavities for triple convective-diffusive free convection. Energy, 2020, 201, 117702.	4.5	31
134	Thermal convection of nano-liquid in an electronic cabinet with finned heat sink and heat generating element. AEJ - Alexandria Engineering Journal, 2021, 60, 2769-2778.	3.4	31
135	Onset of double-diffusive convection of a sparsely packed micropolar fluid in a porous medium layer saturated with a nanofluid. Microfluidics and Nanofluidics, 2017, 21, 1.	1.0	30
136	Unsteady Natural Convection with Temperature-Dependent Viscosity in a Square Cavity Filled with a Porous Medium. Transport in Porous Media, 2015, 110, 113-126.	1.2	29
137	Unsteady natural convection in a cubical cavity with a triangular heat source. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 1795-1813.	1.6	29
138	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
139	CONJUGATE NATURAL CONVECTION IN AN ENCLOSURE WITH LOCAL HEAT SOURCES. Computational Thermal Sciences, 2009, 1, 341-360.	0.5	29
140	Conjugate mixed convection in a rectangular cavity with a local heater. International Journal of Mechanical Sciences, 2018, 136, 243-251.	3.6	28
141	Effects of uniform rotation and porous layer on free convection in an enclosure having local heat source. International Journal of Thermal Sciences, 2019, 138, 276-284.	2.6	28
142	Thermo-hydrodynamic and entropy generation analysis of a dilute aqueous suspension enhanced with nano-encapsulated phase change material. International Journal of Mechanical Sciences, 2020, 178, 105609.	3.6	28
143	Effect of time-dependent wall temperature on natural convection of a non-Newtonian fluid in an enclosure. International Journal of Thermal Sciences, 2021, 166, 106973.	2.6	28
144	Natural Convection Coupled with Thermal Radiation in a Square Porous Cavity Having a Heated Plate Inside. Transport in Porous Media, 2016, 114, 843-857.	1.2	27

#	Article	IF	Citations
145	Entropy generation on double diffusive MHD Casson nanofluid flow with convective heat transfer and activation energy. Indian Journal of Physics, 2021, 95, 1423-1436.	0.9	27
146	Influence of temperature dependent conductivity of a nanofluid in a vertical rectangular duct. International Journal of Non-Linear Mechanics, 2016, 78, 17-28.	1.4	26
147	Convective heat transfer in a lid-driven cavity with a heat-conducting solid backward step under the effect of buoyancy force. International Journal of Heat and Mass Transfer, 2017, 112, 158-168.	2.5	26
148	Enhancement of heat transfer of nanofluids in the presence of sinusoidal side obstacles between two parallel plates through the lattice Boltzmann method. International Journal of Mechanical Sciences, 2019, 156, 159-169.	3.6	26
149	Unsteady natural convection in a partially porous cavity having a heat-generating source using local thermal non-equilibrium model. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1902-1919.	1.6	26
150	Marangoni natural convection in a cubical cavity filled with a nanofluid. Journal of Thermal Analysis and Calorimetry, 2019, 135, 357-369.	2.0	26
151	Effect of Nano-Sized Heat Transfer Enhancers on PCM-Based Heat Sink Performance at Various Heat Loads. Nanomaterials, 2020, 10, 17.	1.9	26
152	Natural convection in a triangular cavity filled with a micropolar fluid. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 504-515.	1.6	25
153	Heat flow visualization for unsteady Casson fluid past a vertical slender hollow cylinder. Thermal Science and Engineering Progress, 2018, 5, 172-181.	1.3	25
154	Natural convection of an alumina-water nanofluid inside an inclined wavy-walled cavity with a non-uniform heating using Tiwari and Dasâ€™ nanofluid model. Applied Mathematics and Mechanics (English Edition), 2018, 39, 1425-1436.	1.9	25
155	Radiation effect on conjugate turbulent natural convection in a cavity with a discrete heater. Applied Mathematics and Computation, 2018, 321, 358-371.	1.4	24
156	Inclusion of nanoparticles in PCM for heat release unit. Journal of Molecular Liquids, 2020, 313, 113544.	2.3	24
157	Thermogravitational Convection of Hybrid Nanofluid in a Porous Chamber with a Central Heat-Conducting Body. Symmetry, 2020, 12, 593.	1.1	24
158	Natural convection in a closed parallelepiped with a local energy source. Journal of Applied Mechanics and Technical Physics, 2013, 54, 588-595.	0.1	23
159	Effect of Mass Transfer and MHD Induced Navierâ€™s Slip Flow Due to a non Linear Stretching Sheet. Journal of Engineering Thermophysics, 2019, 28, 578-590.	0.6	23
160	Heat and mass transfer in a vertical double passage channel filled with electrically conducting fluid. Physica A: Statistical Mechanics and Its Applications, 2017, 465, 195-216.	1.2	22
161	Transient natural convection with temperature-dependent viscosity in a square partially porous cavity having a heat-generating source. Numerical Heat Transfer; Part A: Applications, 2018, 73, 849-862.	1.2	22
162	Impacts of moving wall and heat-generating element on heat transfer and entropy generation of Al2O3/H2O nanofluid. Journal of Thermal Analysis and Calorimetry, 2019, 136, 673-686.	2.0	22

#	Article	IF	Citations
163	Triple-Diffusive Natural Convection in a Square Porous Cavity. Transport in Porous Media, 2016, 111, 59-79.	1.2	21
164	Thermal convection in Al2O3â€“water nanoliquid rotating chamber with a local isothermal heater. International Journal of Mechanical Sciences, 2019, 156, 137-145.	3.6	21
165	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
166	Entropy generation on double-diffusive MHD slip flow of nanofluid over a rotating disk with nonlinear mixed convection and Arrhenius activation energy. Indian Journal of Physics, 2022, 96, 525-541.	0.9	21
167	Unsteady Conjugate Natural Convection in a Three-Dimensional Porous Enclosure. Numerical Heat Transfer; Part A: Applications, 2015, 68, 243-267.	1.2	20
168	Triple-Diffusive Mixed Convection in a Porous Open Cavity. Transport in Porous Media, 2017, 116, 473-491.	1.2	20
169	Thermal and Fluid Dynamic Behaviors of Confined Slot Jets Impinging on an Isothermal Moving Surface with Nanofluids. Energies, 2019, 12, 2074.	1.6	20
170	Investigation of thermal-hydro dynamical behavior on nano-encapsulated PCM suspension: Effect of fin position, fractioning and aspect ratio. Chemical Engineering and Processing: Process Intensification, 2020, 157, 108122.	1.8	20
171	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
172	Phase change heat transfer and energy storage in a wavy-tube thermal storage unit filled with a nano-enhanced phase change material and metal foams. Journal of Energy Storage, 2022, 54, 105277.	3.9	20
173	Numerical analysis of convective heat transfer in a closed two-phase thermosyphon. Journal of Engineering Thermophysics, 2011, 20, 201-210.	0.6	19
174	Double-Diffusive Natural Convection in a Differentially Heated Wavy Cavity Under Thermophoresis Effect. Journal of Thermophysics and Heat Transfer, 2018, 32, 1045-1058.	0.9	19
175	Free Convection of Hybrid Nanofluids in a C-Shaped Chamber under Variable Heat Flux and Magnetic Field: Simulation, Sensitivity Analysis, and Artificial Neural Networks. Energies, 2019, 12, 2807.	1.6	19
176	Non-equilibrium natural convection in a differentially-heated nanofluid cavity partially filled with a porous medium. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 2524-2544.	1.6	19
177	Nanoliquid thermal convection in I-shaped multiple-pipe heat exchanger under magnetic field influence. Physica A: Statistical Mechanics and Its Applications, 2020, 550, 124028.	1.2	19
178	Heat transfer analysis of rectangular porous fins in local thermal non-equilibrium model. Applied Thermal Engineering, 2021, 195, 117237.	3.0	19
179	UNSTEADY FREE CONVECTION IN A SQUARE POROUS CAVITY SATURATED WITH NANOFLUID: THE CASE OF LOCAL THERMAL NONEQUILIBRIUM AND BUONGIORNO'S MATHEMATICAL MODELS. Journal of Porous Media, 2017, 20, 999-1016.	1.0	19
180	Natural convective heat transfer and nanofluid flow in a cavity with top wavy wall and corner heater. Journal of Hydrodynamics, 2016, 28, 873-885.	1.3	18

#	Article	IF	Citations
181	Effect of trapezoidal heater on natural convection heat transfer and fluid flow inside a cubical cavity. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1232-1248.	1.6	18
182	Impacts of rotation and local element of variable heat generation on convective heat transfer in a partially porous cavity using local thermal non-equilibrium model. International Journal of Thermal Sciences, 2020, 155, 106427.	2.6	18
183	Influence of thermal radiation on thermogravitational convection in a tilted chamber having heat-producing solid body. International Communications in Heat and Mass Transfer, 2020, 115, 104611.	2.9	18
184	MHD flow in a vertical channel under the effect of temperature dependent physical parameters. Chinese Journal of Physics, 2019, 58, 324-338.	2.0	17
185	Analysis of supercritical free convection in Newtonian and couple stress fluids through EOS approach. International Journal of Heat and Mass Transfer, 2020, 152, 119542.	2.5	17
186	The influence of external temperature and convective heat exchange with an environment on heat transfer inside phase change material embedded brick. Journal of Energy Storage, 2021, 33, 102087.	3.9	17
187	Numerical study of turbulent natural convection in a cube having finite thickness heat-conducting walls. Heat and Mass Transfer, 2015, 51, 1559-1569.	1.2	16
188	Influence of uniform magnetic field on laminar regimes of natural convection in an enclosure. Thermophysics and Aeromechanics, 2015, 22, 203-216.	0.1	16
189	Unsteady Conjugate Natural Convective Heat Transfer and Entropy Generation in a Porous Semicircular Cavity. Journal of Heat Transfer, 2018, 140, .	1.2	16
190	Natural convection combined with surface radiation in a rotating cavity with an element of variable volumetric heat generation. Energy, 2020, 210, 118543.	4.5	16
191	Nanomaterial thermal performance within a pipe in presence of turbulator. Applied Nanoscience (Switzerland), 2020, 10, 3421-3430.	1.6	16
192	Free Convection Heat Transfer and Entropy Generation in an Odd-Shaped Cavity Filled with a Cu-Al2O3 Hybrid Nanofluid. Symmetry, 2021, 13, 122.	1.1	16
193	Numerical analysis of nonsteady-state conjugate natural convection between two concentric spheres. Journal of Engineering Thermophysics, 2011, 20, 1-12.	0.6	15
194	Effect of surface radiation on transient natural convection in a wavy-walled cavity. Numerical Heat Transfer; Part A: Applications, 2016, 69, 369-382.	1.2	15
195	Entropy generation and natural convection flow of a suspension containing nano-encapsulated phase change particles in a semi-annular cavity. Journal of Energy Storage, 2020, 32, 101834.	3.9	15
196	Brownian motion of magnetonanofluid flow in an undulated partially heated enclosure. International Journal of Mechanical Sciences, 2021, 198, 106346.	3.6	15
197	Nonlinear Mixed Convective Flow over a Moving Yawed Cylinder Driven by Buoyancy. Mathematics, 2021, 9, 1275.	1.1	15
198	Transient thermogravitational convection for magneto hybrid nanofluid in a deep cavity with multiple isothermal source-sink pairs. International Journal of Thermal Sciences, 2022, 173, 107376.	2.6	15

#	Article	IF	Citations
199	Unsteady conjugate thermogravitational convection in a cylindrical region with local energy source. Thermophysics and Aeromechanics, 2011, 18, 447-458.	0.1	14
200	Transient entropy analysis for the flow of a second-grade fluid over a vertical cylinder. Canadian Journal of Physics, 2018, 96, 978-991.	0.4	14
201	Convectiveâ€“radiative heat transfer in a cavity filled with a nanofluid under the effect of a nonuniformly heated plate. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 1392-1409.	1.6	14
202	MHD Buoyancy Flow of Nanofluids over an Inclined Plate Immersed in Uniform Porous Medium in the Presence of Solar Radiation. Journal of Mechanics, 2019, 35, 563-576.	0.7	14
203	Effect of Porous Medium and Copper Heat Sink on Cooling of Heat-Generating Element. Energies, 2020, 13, 2538.	1.6	14
204	Applications of Nanofluids. Nanomaterials, 2021, 11, 1716.	1.9	14
205	Numerical Analysis of Spatial Unsteady Regimes of Conjugate Convective-Radiative Heat Transfer in a Closed Volume with an Energy Source. Journal of Engineering Physics and Thermophysics, 2014, 87, 124-134.	0.2	13
206	Turbulent natural convection combined with surface thermal radiation in a square cavity with local heater. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 1698-1715.	1.6	13
207	Impacts of Non-Uniform Border Temperature Variations on Time-Dependent Nanofluid Free Convection within a Trapezium: Buongiornoâ€™s Nanofluid Model. Energies, 2019, 12, 1461.	1.6	13
208	Heat transfer of viscous fluid in a vertical channel sandwiched between nanofluid porous zones. Journal of Thermal Analysis and Calorimetry, 2021, 144, 1389-1399.	2.0	13
209	Thermal radiation and natural convection in a large-scale enclosure heated from below: Building application. Building Simulation, 2021, 14, 681-691.	3.0	13
210	NUMERICAL ANALYSIS OF CONJUGATE NATURAL CONVECTION AND SURFACE RADIATION IN AN ENCLOSURE WITH LOCAL HEAT SOURCE. Computational Thermal Sciences, 2013, 5, 11-25.	0.5	13
211	Influence of PCM heat sink shape on cooling of heat-generating elements in electronics. Applied Thermal Engineering, 2022, 213, 118695.	3.0	13
212	Study of tree-shaped optimized fins in a heat sink filled by solid-solid nanocomposite phase change material. International Communications in Heat and Mass Transfer, 2022, 136, 106195.	2.9	13
213	Numerical analysis of 3D regimes of natural convection and surface radiation in a differentially heated enclosure. Journal of Engineering Thermophysics, 2015, 24, 22-32.	0.6	12
214	Convective heat transfer combined with surface radiation in a rotating square cavity with a local heater. Numerical Heat Transfer; Part A: Applications, 2017, 72, 697-707.	1.2	12
215	Simulation for melting of paraffin for saving energy with utilize of nanoparticles. Journal of Molecular Liquids, 2020, 313, 113574.	2.3	12
216	NATURAL CONVECTION IN A CUBICAL POROUS CAVITY SATURATED WITH NANOFLUID USING TIWARI AND DAS' NANOFLUID MODEL. Journal of Porous Media, 2015, 18, 585-596.	1.0	12

#	Article	IF	Citations
217	Studying regimes of convective heat transfer in the production of high-temperature silicate melts. Thermophysics and Aeromechanics, 2016, 23, 755-765.	0.1	11
218	Mathematical simulation of melting inside a square cavity with a local heat source. Thermophysics and Aeromechanics, 2016, 23, 553-565.	0.1	11
219	Free Convection in an Open Triangular Cavity Filled With a Nanofluid Under the Effects of Brownian Diffusion, Thermophoresis and Local Heater. Journal of Heat Transfer, 2018, 140, .	1.2	11
220	MHD natural convection in a square porous cavity filled with a water-based magnetic fluid in the presence of geothermal viscosity. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 2111-2131.	1.6	11
221	Flow and heat transfer of couple stress nanofluid sandwiched between viscous fluids. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 4262-4276.	1.6	11
222	Effect of porous insertion on convective energy transport in a chamber filled with a temperature-dependent viscosity liquid in the presence of a heat source term. International Journal of Heat and Mass Transfer, 2019, 144, 118530.	2.5	11
223	Thermal performance in transient MHD thermogravitational convection of nanofluid with various heating effects. Journal of Thermal Analysis and Calorimetry, 2021, 146, 1255-1281.	2.0	11
224	Thermal Convection of Nanoliquid in a Double-Connected Chamber. Nanomaterials, 2020, 10, 588.	1.9	11
225	Study of paraffin-based composite-phase change materials for a shell and tube energy storage system: A mesh adaptation approach. Applied Thermal Engineering, 2021, 190, 116793.	3.0	11
226	Influence of phase change material melting point and its location on heat and mass transfer in a brick. Journal of Energy Storage, 2021, 42, 103122.	3.9	11
227	Effect of thermal radiation on natural convection in a square porous cavity filled with a fluid of temperature-dependent viscosity. Thermal Science, 2018, 22, 391-399.	0.5	11
228	Numerical Simulation of Convective Heat Transfer Modes in a Rectangular Area With a Heat Source and Conducting Walls. Journal of Heat Transfer, 2010, 132, .	1.2	10
229	Unsteady natural convection with entropy generation in partially open triangular cavities with a local heat source. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 2696-2716.	1.6	10
230	Discharging of PCM for ventilation system incorporating nanoparticles. Journal of Molecular Liquids, 2020, 315, 113696.	2.3	10
231	Cooling System with Porous Finned Heat Sink for Heat-Generating Element. Transport in Porous Media, 2020, 133, 459-478.	1.2	10
232	Effects of internal heat generation and Lorentz force on unsteady hybrid nanoliquid flow and heat transfer along a moving plate with nonuniform temperature. Heat Transfer, 2021, 50, 2975-2996.	1.7	10
233	The effect of nano encapsulated phase change materials and nanoparticles on turbulent heat transport: A conical diffuser scenario. Journal of Energy Storage, 2022, 52, 104703.	3.9	10
234	UNSTEADY NATURAL CONVECTION OF NANOFLUIDS IN AN ENCLOSURE HAVING FINITE THICKNESS WALLS. Computational Thermal Sciences, 2011, 3, 427-443.	0.5	9

#	Article	IF	Citations
235	Mixed convectionâ€“radiation in lid-driven cavities with nanofluids and time-dependent heat-generating body. Journal of Thermal Analysis and Calorimetry, 2021, 146, 725-738.	2.0	9
236	Influence of the chamber inclination angle and heat-generating element location on thermal convection of power-law medium in a chamber. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 134-153.	1.6	9
237	Thermal convection in a cubical region saturated with a temperature-dependent viscosity fluid under the non-uniform temperature profile at vertical wall. International Communications in Heat and Mass Transfer, 2021, 126, 105442.	2.9	9
238	Irreversibilities in a triple diffusive flow in various porous cavities. Chinese Journal of Physics, 2021, 73, 239-255.	2.0	9
239	Numerical Simulation of Solid and Porous Finsâ€™ Impact on Heat Transfer Performance in a Differentially Heated Chamber. Mathematics, 2022, 10, 263.	1.1	9
240	Turbulent Natural Convection and Surface Radiation in a Closed Air Cavity with a Local Energy Source. Journal of Engineering Physics and Thermophysics, 2017, 90, 557-563.	0.2	8
241	The Influence of Surface Radiation on the Passive Cooling of a Heat-Generating Element. Energies, 2019, 12, 980.	1.6	8
242	Thermal convection in a chamber filled with a nanosuspension driven by a chemical reaction using Tiwari and Dasâ€™ model. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 452-470.	1.6	8
243	Numerical Investigation of Mixing by Induced Electrokinetic Flow in T-Micromixer with Conductive Curved Arc Plate. Symmetry, 2021, 13, 915.	1.1	8
244	Impacts of Uniform Magnetic Field and Internal Heated Vertical Plate on Ferrofluid Free Convection and Entropy Generation in a Square Chamber. Entropy, 2021, 23, 709.	1.1	8
245	Analysis and modeling of magnetic dipole for the radiative flow of nonâ€Newtonian nanomaterial with Arrhenius activation energy. Mathematical Methods in the Applied Sciences, 0, , .	1.2	8
246	Thermogravitational convection of powerâ€law nanofluid in a cavity with a heatâ€generated section on the bottom wall. Mathematical Methods in the Applied Sciences, 2023, 46, 11479-11494.	1.2	8
247	Three-dimensional conjugate natural convection in a vertical cylinder under heat transfer to the surroundings. Fluid Dynamics, 2011, 46, 647-657.	0.2	7
248	Unsteady regimes of hydrodynamics and heat transfer at production of high-temperature silicate melts. Thermophysics and Aeromechanics, 2013, 20, 621-629.	0.1	7
249	Comparative study of standardkâ€“Îµ andkâ€“Ï‰ turbulence models by giving an analysis of turbulent natural convection in an enclosure. EPJ Web of Conferences, 2015, 82, 01057.	0.1	7
250	Impacts of Heat-Conducting Solid Wall and Heat-Generating Element on Free Convection of Al2O3/H2O Nanofluid in a Cavity with Open Border. Energies, 2018, 11, 3434.	1.6	7
251	Natural convection in differentially heated enclosures subjected to variable temperature boundaries. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 4130-4141.	1.6	7
252	Eco-friendly and scalable radiative cooling for metal substrates with electrophoretically deposited chitosan. Solar Energy Materials and Solar Cells, 2020, 216, 110707.	3.0	7

#	Article	IF	Citations
253	Influence of the Fin Shape on Heat Transport in Phase Change Material Heat Sink with Constant Heat Loads. Energies, 2021, 14, 1389.	1.6	7
254	Numerical Investigation of Conjugate Natural Convection in a Cavity with a Local Heater by the Lattice Boltzmann Method. Fluids, 2021, 6, 316.	0.8	7
255	Soft Computing Approaches for Thermal Conductivity Estimation of CNT/Water Nanofluid. Revue Des Composites Et Des Materiaux Avances, 2019, 29, 71-82.	0.2	7
256	On the possibility of controlling thermal conditions of a typical element of electronic equipment with a local heat source via Natural Convection. Russian Microelectronics, 2010, 39, 427-442.	0.1	6
257	MATHEMATICAL SIMULATION OF UNSTEADY NATURAL CONVECTION INSIDE A SPHERE. Computational Thermal Sciences, 2011, 3, 277-287.	0.5	6
258	Mathematical simulation of conjugate turbulent natural convection in an enclosure with local heat source. Thermophysics and Aeromechanics, 2011, 18, 107-121.	0.1	6
259	Mathematical modeling of the laminar regime of conjugate convective heat transfer in an enclosure with an energy source under surface-radiation conditions. Journal of Engineering Physics and Thermophysics, 2013, 86, 110-119.	0.2	6
260	Combined natural convection heat and mass transfer in an enclosure having finite thickness walls. Meccanica, 2013, 48, 851-862.	1.2	6
261	Free convection in wavy porous enclosures with non-uniform temperature boundary conditions filled with a nanofluid: Buongiornoâ€™s mathematical model. Thermal Science, 2017, 21, 1183-1193.	0.5	6
262	Natural convection with evaporation in a vertical cylindrical cavity under the effect of temperature-dependent surface tension. Continuum Mechanics and Thermodynamics, 2018, 30, 83-94.	1.4	6
263	Numerical investigation of the two-dimensional natural convection inside the system based on phase change material with a source of volumetric heat generation. Thermophysics and Aeromechanics, 2018, 25, 525-537.	0.1	6
264	Double diffusion in a rectangular duct using metals or oxides suspended in a viscous fluid. Thermal Science and Engineering Progress, 2021, 21, 100793.	1.3	6
265	Mixed convection in a chamber saturated with MWCNT-Fe3O4/water hybrid nanofluid under the upper wall velocity modulation. European Physical Journal Plus, 2021, 136, 1.	1.2	6
266	Latent Heat Thermal Storage of Nano-Enhanced Phase Change Material Filled by Copper Foam with Linear Porosity Variation in Vertical Direction. Energies, 2021, 14, 1508.	1.6	6
267	Magnetized Dissipative Soret Effect on Chemically Reactive Maxwell Fluid over a Stretching Sheet with Joule Heating. Coatings, 2021, 11, 528.	1.2	6
268	Natural Convection Melting Influence on the Thermal Resistance of a Brick Partially Filled with Phase Change Material. Fluids, 2021, 6, 258.	0.8	6
269	Impact of porous complicated fin and sinusoidal-heated wall on thermogravitational convection of different nanofluids in a square domain. International Journal of Thermal Sciences, 2021, 168, 107053.	2.6	6
270	Effect of third size on natural convection of variable viscosity fluid in a closed parallelepiped. International Communications in Heat and Mass Transfer, 2021, 128, 105618.	2.9	6

#	Article	IF	Citations
271	Thermogravitational convection of ferrofluid combined with the second law of thermodynamics for an open chamber with a heat-generating solid block under an influence of uniform magnetic field. International Communications in Heat and Mass Transfer, 2021, 129, 105712.	2.9	6
272	Entropy Analysis of the Thermal Convection of Nanosuspension within a Chamber with a Heat-Conducting Solid Fin. Entropy, 2022, 24, 523.	1.1	6
273	Forced convection of turbulent flow into the wavy parallel channel. Journal of Thermal Analysis and Calorimetry, 2022, 147, 11183-11194.	2.0	6
274	Modelling of thermogravitation convection in closed volume with local sources of heat release. Thermophysics and Aeromechanics, 2006, 13, 565-574.	0.1	5
275	Conjugate heat transfer in a closed domain with a locally lumped heat-release source. Journal of Engineering Physics and Thermophysics, 2006, 79, 57-64.	0.2	5
276	Complex for production of silicate melt from ash wastes. Glass and Ceramics (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.2	5
277	Interaction of two-dimensional thermal â€œplumesâ€• from local sources of energy under conditions of conjugate natural convection in a horizontal cylinder. Journal of Applied Mechanics and Technical Physics, 2012, 53, 566-576.	0.1	5
278	Natural convection in a differentially heated enclosure having two adherent porous blocks saturated with a nanofluid. European Physical Journal Plus, 2017, 132, 1.	1.2	5
279	Convection in a vertical duct under the chemical reaction influence using Robin boundary conditions. Thermal Science and Engineering Progress, 2020, 15, 100440.	1.3	5
280	Soret effects on the mixed convection flow using Robin boundary conditions. Heat Transfer - Asian Research, 2020, 49, 154-179.	2.8	5
281	Effect of the time-dependent volumetric heat flux on heat transfer performance inside a heat sink based on the phase change materials. Clean Technologies and Environmental Policy, 2021, 23, 1151-1160.	2.1	5
282	Phase-Transition Thermal Charging of a Channel-Shape Thermal Energy Storage Unit: Taguchi Optimization Approach and Copper Foam Inserts. Molecules, 2021, 26, 1235.	1.7	5
283	Simulation of Thermal Radiation and Turbulent Free Convection in an Enclosure with a Glass Wall and a Local Heater. Fluids, 2021, 6, 91.	0.8	5
284	Effects of temperature oscillation on unsteady MHD hybrid nanofluid motion over a semiâ€•infinite moving vertical sheet. Heat Transfer, 2022, 51, 818-840.	1.7	5
285	Automation of the heated floor system in a room under the influence of ambient conditions. Applied Thermal Engineering, 2021, 196, 117298.	3.0	5
286	Thermoelectric Generation with Impinging Nano-Jets. Energies, 2021, 14, 492.	1.6	5
287	Numerical study of PCMs arrangement effect on heat transfer performance in plate-finned heat sink for passive cooling system. Journal of Thermal Analysis and Calorimetry, 2022, 147, 10305-10317.	2.0	5
288	Mathematical simulation of nonstationary regimes of natural convection in a cubical enclosure with finite-thickness heat-conducting walls. Journal of Engineering Thermophysics, 2013, 22, 298-308.	0.6	4

#	Article	IF	Citations
289	Influence of the Geometric Parameter on the Regimes of Natural Convection and Thermal Surface Radiation in a Closed Parallelepiped. Journal of Engineering Physics and Thermophysics, 2015, 88, 1522-1529.	0.2	4
290	Thermogravitational convection of Al₂O₃-H₂O nanoliquid in a square chamber with intermittent blocks. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 1365-1378.	1.6	4
291	Natural convection of Al2O3-water nanosuspension in a semi-open domain with composite fin. Physics of Fluids, 2021, 33, 033606.	1.6	4
292	Heat transfer of chemically reacting mixed convection fluid using convective surface condition: Non-Darcy model. Thermal Science and Engineering Progress, 2021, 25, 101044.	1.3	4
293	Cooling of periodically heat-generated element under the convective-radiative heat transfer in a rotating domain with a thermally conducting base plate. International Journal of Thermal Sciences, 2021, 170, 107150.	2.6	4
294	Effect of Non-Identical Magnetic Fields on Thermomagnetic Convective Flow of a Nanoliquid Using Buongiornoâ€™s Model. Mathematics, 2022, 10, 1222.	1.1	4
295	The Coriolis Effect on Thermal Convection in a Rotating Sparsely Packed Porous Layer in Presence of Cross-Diffusion. Coatings, 2022, 12, 23.	1.2	4
296	Mathematical simulation of conjugate mixed convection in a rectangular region with a heat source. Journal of Applied Mechanics and Technical Physics, 2008, 49, 946-956.	0.1	3
297	Mathematical modelling of heat and mass transfer under conditions of mixed convection in rectangular region with heat source and heat-conducting walls. Thermophysics and Aeromechanics, 2008, 15, 99-112.	0.1	3
298	Numerical modeling of temperature fields in the elements and units of electronic systems. Russian Microelectronics, 2009, 38, 312-319.	0.1	3
299	Conjugate Natural Convection in a Closed Domain Containing a Heat-Releasing Element with a Constant Heat-Release Intensity. Journal of Applied Mechanics and Technical Physics, 2010, 51, 699-712.	0.1	3
300	Efficient control over heat transfer and hydrodynamics in closed regions due to optimal selection of materials for enclosure walls and external heat load. Russian Microelectronics, 2011, 40, 326-332.	0.1	3
301	Mathematical simulation of convective-radiative heat transfer in a ventilated rectangular cavity with consideration of internal mass transfer. Journal of Engineering Physics and Thermophysics, 2012, 85, 828-835.	0.2	3
302	Convection in a Limited Space Between Two Rotating Cylinders. Russian Physics Journal, 2014, 57, 749-754.	0.2	3
303	Natural convection melting of nano-enhanced phase change material in a cavity with finned copper profile. MATEC Web of Conferences, 2018, 240, 01006.	0.1	3
304	Numerical analysis of heat source surface emissivity impact on heat transfer performance in a rectangular enclosure at high Rayleigh numbers. International Journal for Computational Methods in Engineering Science and Mechanics, 2020, 21, 205-214.	1.4	3
305	Semi-Analytical Solution of Two-Dimensional Viscous Flow through Expanding/Contracting Gaps with Permeable Walls. Mathematical and Computational Applications, 2021, 26, 41.	0.7	3
306	Entropy generation of natural heat exchange into a porous medium accumulated by a hybrid nanoliquid applying LTNE model. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 99-119.	1.6	3

#	Article	IF	Citations
307	Influence of Liquid Hydrogen Diffusion on Nonlinear Mixed Convective Circulation around a Yawed Cylinder. Symmetry, 2022, 14, 337.	1.1	3
308	Conjugate mixed convection under mass-transfer conditions. Journal of Engineering Physics and Thermophysics, 2009, 82, 890-899.	0.2	2
309	Surface radiation influence on the regimes of conjugate natural convection in an enclosure with local energy source. Thermophysics and Aeromechanics, 2013, 20, 417-428.	0.1	2
310	Effect of inlet/outlet on thermal performance of naturally ventilated building. International Journal of Low-Carbon Technologies, 2021, 16, 1348-1362.	1.2	2
311	Thermal convection and radiation in a rotating cabinet with time-dependent heat-generated solid element and heat-conducting solid walls. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 3527-3546.	1.6	2
312	Thermal convection and entropy generation of ferrofluid in an enclosure containing a solid body. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 2940-2961.	1.6	2
313	Numerical Analysis of Heat Transfer through Hollow Brick Using Finite-Difference Method. Axioms, 2022, 11, 37.	0.9	2
314	Comparative analysis of the lattice Boltzmann method and the finite difference technique of thermal convection in closed domains with heaters. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 3579-3597.	1.6	2
315	Thermogravitational Convective Flow and Energy Transport in an Electronic Cabinet with a Heat-Generating Element and Solid/Porous Finned Heat Sink. Mathematics, 2022, 10, 34.	1.1	2
316	Thermal performance of an environmentally friendly nanoliquid in a cabinet with two l-shaped heaters: application for electronic cooling. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, ahead-of-print, .	1.6	2
317	Convection in a differentially heated cubic cavity rolling about horizontal axis. International Journal of Thermal Sciences, 2022, 179, 107639.	2.6	2
318	The Rayleigh-Benard instability in an enclosure having finite thickness walls. Journal of Physics: Conference Series, 2010, 216, 012010.	0.3	1
319	Effect of thermodiffusion on convective heat and mass transfer in enclosures with heat-conducting walls. Journal of Engineering Thermophysics, 2010, 19, 111-118.	0.6	1
320	Turbulent regime of thermogravitational convection in a closed cavity. Journal of Engineering Physics and Thermophysics, 2010, 83, 346-357.	0.2	1
321	Numerical simulation of turbulent natural convection in electronic enclosure. , 2010, , .		1
322	Numerical Simulation of Conjugate Natural Convection in an Inclined Cylinder. Heat Transfer Research, 2011, 42, 473-485.	0.9	1
323	Numerical Simulation of Melting of Phase Change Material in a Square Cavity with a Heat Source. Key Engineering Materials, 0, 685, 104-108.	0.4	1
324	Transient free convection in an inclined square porous cavity filled with a nanofluid using LTNE and Buongiornoâ€™s models. MATEC Web of Conferences, 2018, 240, 03014.	0.1	1

#	Article	IF	Citations
325	Convective energy transport in a vertical porous channel: Effects of triple diffusion and Newtonian heating/cooling. Mathematical Methods in the Applied Sciences, 0, , .	1.2	1
326	Entropy generation in MHD free convection of nanoliquid within a square open chamber with a solid body. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, ahead-of-print, .	1.6	1
327	Numerical Simulation of Convective-Radiative Heat Transfer. Energies, 2021, 14, 5399.	1.6	1
328	Numerical Simulation of Heat Transfer in an Enclosure with Time-Periodic Heat Generation Using Finite-Difference Method. Lecture Notes in Computer Science, 2020, , 149-162.	1.0	1
329	Spatial Simulation of Heat Transfer through Protective Structures in Conditions of Heterogeneous Heat Exchange on the Boundaries. Heat Transfer Research, 2005, 36, 631-639.	0.9	1
330	Numerical Simulation of Conjugate Free Convection in a Vertical Cylinder Having Porous Layer. International Journal of Materials Mechanics and Manufacturing, 2017, 5, 59-63.	0.2	1
331	Conjugate problem of thermogravitational convection in a rectangular region with a local heat source. Journal of Engineering Physics and Thermophysics, 2008, 81, 92-99.	0.2	0
332	Double-Diffusive Natural Convection in an Enclosure Having Finite Thickness Walls. , 2010, , .		0
333	Investigation of regimes of thermogravitational convection of a fluid between coaxial semicylinders with a heat-conducting shell in the presence of a local energy source. Journal of Engineering Physics and Thermophysics, 2011, 84, 1379-1387.	0.2	0
334	Natural convection in a rotating cavity partially filled with a porous medium under the effect of a local heater. MATEC Web of Conferences, 2018, 240, 01027.	0.1	0
335	THREE-DIMENSIONAL NUMERICAL SIMULATION OF UNSTEADY TURBULENT NATURAL CONVECTION IN AN ENCLOSURE HAVING FINITE THICKNESS HEAT-CONDUCTING WALLS. , 2012, , .		0
336	Natural Convection Melting of PCM: Numerical Simulation Techniques and Applications. Springer Proceedings in Mathematics and Statistics, 2020, , 311-320.	0.1	0
337	Buoyancyâ€motivated dissipative free convection flow of Waltersâ€B fluid along a stretching sheet under the Soret effect and Lorentz force influence. Heat Transfer, 0, , .	1.7	0
338	Thermal Convection in a Partially Porous Rotating Chamber Using Local Thermal Non-Equilibrium Models. Transport in Porous Media, 0, , .	1.2	0