

Mikhail A Sheremet

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Variable magnetic forces impact on magnetizable hybrid nanofluid heat transfer through a circular cavity. <i>Journal of Molecular Liquids</i> , 2019, 277, 388-396.	4.9	225
2	MHD natural convection in an inclined wavy cavity with corner heater filled with a nanofluid. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 416, 37-47.	2.3	188
3	Numerical simulation of natural convection heat transfer inside a $\hat{\omega}$ shaped cavity filled by a MWCNT-Fe ₃ O ₄ /water hybrid nanofluids using LBM. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 125, 56-66.	3.6	173
4	Conjugate natural convection in a square porous cavity filled by a nanofluid using Buongiorno's mathematical model. <i>International Journal of Heat and Mass Transfer</i> , 2014, 79, 137-145.	4.8	162
5	MHD natural convection and entropy generation of ferrofluid in an open trapezoidal cavity partially filled with a porous medium. <i>International Journal of Mechanical Sciences</i> , 2018, 136, 493-502.	6.7	160
6	Numerical study of MHD nanofluid natural convection in a baffled U-shaped enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2019, 130, 123-134.	4.8	159
7	Free Convection in a Square Cavity Filled with a Porous Medium Saturated by Nanofluid Using Tiwari and Das's Nanofluid Model. <i>Transport in Porous Media</i> , 2015, 106, 595-610.	2.6	154
8	MHD free convection in a wavy open porous tall cavity filled with nanofluids under an effect of corner heater. <i>International Journal of Heat and Mass Transfer</i> , 2016, 103, 955-964.	4.8	150
9	Natural convection in an inclined cavity with time-periodic temperature boundary conditions using nanofluids: Application in solar collectors. <i>International Journal of Heat and Mass Transfer</i> , 2018, 116, 751-761.	4.8	149
10	Numerical Analysis of Unsteady Conjugate Natural Convection of Hybrid Water-Based Nanofluid in a Semicircular Cavity. <i>Journal of Thermal Science and Engineering Applications</i> , 2017, 9, .	1.5	145
11	Natural convection and entropy generation of a ferrofluid in a square enclosure under the effect of a horizontal periodic magnetic field. <i>Journal of Molecular Liquids</i> , 2018, 263, 510-525.	4.9	140
12	Magnetic field effect on the unsteady natural convection in a wavy-walled cavity filled with a nanofluid: Buongiorno's mathematical model. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 61, 211-222.	5.3	137
13	Three-dimensional natural convection in a porous enclosure filled with a nanofluid using Buongiorno's mathematical model. <i>International Journal of Heat and Mass Transfer</i> , 2015, 82, 396-405.	4.8	132
14	Natural convection flow of a suspension containing nano-encapsulated phase change particles in an eccentric annulus. <i>Journal of Energy Storage</i> , 2020, 28, 101236.	8.1	131
15	Natural convection of magnetic hybrid nanofluid inside a double-porous medium using two-equation energy model. <i>Journal of Molecular Liquids</i> , 2019, 277, 959-970.	4.9	125
16	Natural convection of nanofluid inside a wavy cavity with a non-uniform heating. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017, 27, 958-980.	2.8	123
17	Heatline visualization of MHD natural convection in an inclined wavy open porous cavity filled with a nanofluid with a local heater. <i>International Journal of Heat and Mass Transfer</i> , 2016, 99, 872-881.	4.8	121
18	Turbulent natural convection heat transfer in rectangular enclosures using experimental and numerical approaches: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 40-59.	16.4	116

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19	Heat transfer performance of the finned nano-enhanced phase change material system under the inclination influence. <i>International Journal of Heat and Mass Transfer</i> , 2019, 135, 1063-1072.	4.8	116
20	Local thermal non-equilibrium analysis of conjugate free convection within a porous enclosure occupied with Ag-MgO hybrid nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 1381-1398.	3.6	114
21	Free convection in a partially heated wavy porous cavity filled with a nanofluid under the effects of Brownian diffusion and thermophoresis. <i>Applied Thermal Engineering</i> , 2017, 113, 413-418.	6.0	113
22	Mixed convection in a lid-driven square cavity filled by a nanofluid: Buongiorno's mathematical model. <i>Applied Mathematics and Computation</i> , 2015, 266, 792-808.	2.2	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. <i>International Journal of Heat and Mass Transfer</i> , 2017, 114, 1086-1097.	4.8	105
24	MHD natural convection and entropy generation of ferrofluids in a cavity with a non-uniformly heated horizontal plate. <i>International Journal of Mechanical Sciences</i> , 2018, 149, 326-337.	6.7	105
25	Heat transfer inside cooling system based on phase change material with alumina nanoparticles. <i>Applied Thermal Engineering</i> , 2018, 144, 972-981.	6.0	104
26	MHD natural convection in a partially open trapezoidal cavity filled with a nanofluid. <i>International Journal of Mechanical Sciences</i> , 2016, 119, 294-302.	6.7	103
27	Conjugate heat transfer in the PCM-based heat storage system with finned copper profile: Application in electronics cooling. <i>International Journal of Heat and Mass Transfer</i> , 2018, 124, 1275-1284.	4.8	102
28	Natural convection of a hybrid nanofluid affected by an inclined periodic magnetic field within a porous medium. <i>Chinese Journal of Physics</i> , 2020, 65, 447-458.	3.9	100
29	Entropy generation due to natural convection of a nanofluid in a partially open triangular cavity. <i>Advanced Powder Technology</i> , 2017, 28, 244-255.	4.1	98
30	MHD thermogravitational convection and thermal radiation of a micropolar nanofluid in a porous chamber. <i>International Communications in Heat and Mass Transfer</i> , 2020, 110, 104409.	5.6	98
31	MHD natural convection and entropy generation in an open cavity having different horizontal porous blocks saturated with a ferrofluid. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 452, 193-204.	2.3	97
32	Natural Convection in a Square Porous Cavity with Sinusoidal Temperature Distributions on Both Side Walls Filled with a Nanofluid: Buongiorno's Mathematical Model. <i>Transport in Porous Media</i> , 2014, 105, 411-429.	2.6	95
33	Free Convection in a Parallelogrammic Porous Cavity Filled with a Nanofluid Using Tiwari and Das's Nanofluid Model. <i>PLoS ONE</i> , 2015, 10, e0126486.	2.5	95
34	Thermo-Bioconvection in a Square Porous Cavity Filled by Oxytactic Microorganisms. <i>Transport in Porous Media</i> , 2014, 103, 191-205.	2.6	92
35	Effect of thermal dispersion on transient natural convection in a wavy-walled porous cavity filled with a nanofluid: Tiwari and Das's nanofluid model. <i>International Journal of Heat and Mass Transfer</i> , 2016, 92, 1053-1060.	4.8	92
36	Numerical investigation of natural convection of Al_2O_3 nanofluid in a wavy cavity with conductive inner block using Buongiorno's two-phase model. <i>Advanced Powder Technology</i> , 2019, 30, 399-414.	4.1	92

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37	Analysis of Entropy Generation in Natural Convection of Nanofluid inside a Square Cavity Having Hot Solid Block: Tiwari and Das's™ Model. <i>Entropy</i> , 2016, 18, 9.	2.2	90
38	MHD natural convection in an inclined square porous cavity with a heat conducting solid block. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 426, 351-360.	2.3	87
39	Unsteady free convection in a porous open wavy cavity filled with a nanofluid using Buongiorno's mathematical model. <i>International Communications in Heat and Mass Transfer</i> , 2015, 67, 66-72.	5.6	86
40	Coupled FHD's™ MHD free convection of a hybrid nanofluid in an inversed T-shaped enclosure occupied by partitioned porous media. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019, 76, 479-498.	2.1	85
41	Melting heat transfer of power-law non-Newtonian phase change nano-enhanced n-octadecane-mesoporous silica (MPSiO ₂). <i>International Journal of Heat and Mass Transfer</i> , 2020, 151, 119385.	4.8	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. <i>International Journal of Mechanical Sciences</i> , 2015, 100, 312-321.	6.7	82
43	Natural convection of alumina-water nanofluid in an open cavity having multiple porous layers. <i>International Journal of Heat and Mass Transfer</i> , 2018, 125, 648-657.	4.8	82
44	Mixed convection of Al ₂ O ₃ -water nanofluid in a lid-driven cavity having two porous layers. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 527-537.	4.8	80
45	Numerical simulation of thermogravitational energy transport of a hybrid nanofluid within a porous triangular chamber using the two-phase mixture approach. <i>Advanced Powder Technology</i> , 2020, 31, 2493-2504.	4.1	77
46	Conjugate natural convection of Al ₂ O ₃ 's™ water nanofluid in a square cavity with a concentric solid insert using Buongiorno's™ two-phase model. <i>International Journal of Mechanical Sciences</i> , 2018, 136, 200-219.	6.7	76
47	Impact of nonhomogeneous nanofluid model on transient mixed convection in a double lid-driven wavy cavity involving solid circular cylinder. <i>International Journal of Mechanical Sciences</i> , 2019, 150, 637-655.	6.7	76
48	Conjugate natural convection combined with surface thermal radiation in a three-dimensional enclosure with a heat source. <i>International Journal of Heat and Mass Transfer</i> , 2014, 73, 340-353.	4.8	75
49	Heatline visualization of natural convection in a thick walled open cavity filled with a nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2017, 109, 175-186.	4.8	75
50	Dual solutions for Casson hybrid nanofluid flow due to a stretching/shrinking sheet: A new combination of theoretical and experimental models. <i>Chinese Journal of Physics</i> , 2021, 71, 574-588.	3.9	74
51	Effect of thermal stratification on free convection in a square porous cavity filled with a nanofluid using Tiwari and Das' nanofluid model. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 69, 332-341.	2.7	73
52	Natural convection of CuO-water micropolar nanofluids inside a porous enclosure using local thermal non-equilibrium condition. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 88, 89-103.	5.3	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. <i>Journal of Molecular Liquids</i> , 2018, 261, 357-372.	4.9	71
54	Natural convection of Al ₂ O ₃ /H ₂ O nanofluid in a cavity with a heat-generating element. Heatline visualization. <i>International Journal of Heat and Mass Transfer</i> , 2019, 130, 564-574.	4.8	71

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55	Inclined Lorentz force impact on convective-radiative heat exchange of micropolar nanofluid inside a porous enclosure with tilted elliptical heater. <i>International Communications in Heat and Mass Transfer</i> , 2020, 117, 104762.	5.6	70
56	Free convective melting-solidification heat transfer of nano-encapsulated phase change particles suspensions inside a coaxial pipe. <i>Advanced Powder Technology</i> , 2020, 31, 4470-4481.	4.1	70
57	Comprehensive investigation of solid and porous fins influence on natural convection in an inclined rectangular enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2019, 133, 729-744.	4.8	69
58	Conjugate natural convection combined with surface thermal radiation in an air filled cavity with internal heat source. <i>International Journal of Thermal Sciences</i> , 2014, 76, 51-67.	4.9	68
59	CVFEM approach for EHD flow of nanofluid through porous medium within a wavy chamber under the impacts of radiation and moving walls. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 573-581.	3.6	68
60	A numerical simulation of double-diffusive conjugate natural convection in an enclosure. <i>International Journal of Thermal Sciences</i> , 2011, 50, 1878-1886.	4.9	67
61	Mixed convection of hybrid nanofluid in a porous trapezoidal chamber. <i>International Communications in Heat and Mass Transfer</i> , 2020, 116, 104627.	5.6	67
62	Time-dependent natural convection of micropolar fluid in a wavy triangular cavity. <i>International Journal of Heat and Mass Transfer</i> , 2017, 105, 610-622.	4.8	66
63	The influence of cross effects on the characteristics of heat and mass transfer in the conditions of conjugate natural convection. <i>Journal of Engineering Thermophysics</i> , 2010, 19, 119-127.	1.4	65
64	Effect of nanoparticle shape on the performance of thermal systems utilizing nanofluids: A critical review. <i>Journal of Molecular Liquids</i> , 2021, 321, 114430.	4.9	63
65	Free convection in a porous wavy cavity filled with a nanofluid using Buongiorno's mathematical model with thermal dispersion effect. <i>Applied Mathematics and Computation</i> , 2017, 299, 1-15.	2.2	62
66	Analysis of conjugate natural convection within a porous square enclosure occupied with micropolar nanofluid using local thermal non-equilibrium model. <i>Journal of Molecular Liquids</i> , 2018, 250, 353-368.	4.9	62
67	Conjugate heat transfer in an enclosure under the condition of internal mass transfer and in the presence of the local heat source. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 1-8.	4.8	61
68	Unsteady conjugate natural convection in a square enclosure filled with a porous medium. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 5308-5320.	4.8	60
69	Effect of inclined magnetic field on natural convection melting in a square cavity with a local heat source. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 419, 476-484.	2.3	60
70	Flow and heat transfer evolution of PCM due to natural convection melting in a square cavity with a local heater. <i>International Journal of Mechanical Sciences</i> , 2017, 134, 610-619.	6.7	60
71	Examining of nanofluid natural convection heat transfer in a $\hat{\Gamma}$ -shaped enclosure including a rectangular hot obstacle using the lattice Boltzmann method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 526, 120831.	2.6	60
72	Unsteady Conjugate Natural Convection in a Vertical Cylinder Partially Filled with a Porous Medium. <i>Numerical Heat Transfer; Part A: Applications</i> , 2013, 64, 994-1015.	2.1	56

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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.	4.8	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.	6.0	55
75	Mixed convection of Al ₂ O ₃ -H ₂ O nanoliquid in a square chamber with complicated fin. International Journal of Mechanical Sciences, 2020, 165, 105192.	6.7	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.	4.8	54
77	Free convection in a porous horizontal cylindrical annulus with a nanofluid using Buongiorno's model. Computers and Fluids, 2015, 118, 182-190.	2.5	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.	4.8	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.	2.1	53
80	Natural convection of Al ₂ O ₃ /H ₂ O 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
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.	4.9	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.	2.6	52
84	Double-Diffusive Mixed Convection in a Porous Open Cavity Filled with a Nanofluid Using Buongiorno's Model. Transport in Porous Media, 2015, 109, 131-145.	2.6	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.	2.8	50
86	MHD natural convection of Cu/H ₂ O 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.	2.8	50
87	Free Convection in Shallow and Slender Porous Cavities Filled by a Nanofluid Using Buongiorno's Model. Journal of Heat Transfer, 2014, 136, .	2.1	49
88	Conjugate natural convection with radiation in an enclosure. International Journal of Heat and Mass Transfer, 2009, 52, 2215-2223.	4.8	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.	4.8	47
90	Free convection in a trapezoidal cavity filled with a micropolar fluid. International Journal of Heat and Mass Transfer, 2016, 99, 831-838.	4.8	47

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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. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 1057-1067.	4.8	47
92	A comparative study of Al ₂ O ₃ and TiO ₂ nanofluid flow over a wedge with non-linear thermal radiation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 1291-1317.	2.8	47
93	MHD free convection flow in an inclined square cavity filled with both nanofluids and gyrotactic microorganisms. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 4642-4659.	2.8	46
94	Impact of hybrid nanofluids on MHD flow and heat transfer near a vertical plate with ramped wall temperature. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101557.	5.7	46
95	Thermal conductivity and dynamic viscosity modeling of Fe ₂ O ₃ /water nanofluid by applying various connectionist approaches. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018, 74, 1301-1322.	2.1	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. <i>Journal of Engineering Thermophysics</i> , 2012, 21, 111-118.	1.4	43
97	Effect of local heater size and position on natural convection in a tilted nanofluid porous cavity using LTNE and Buongiorno's models. <i>Journal of Molecular Liquids</i> , 2018, 266, 19-28.	4.9	43
98	Mass transpiration on Newtonian flow over a porous stretching/shrinking sheet with slip. <i>Chinese Journal of Physics</i> , 2020, 63, 130-137.	3.9	43
99	Shape factor effect of radiative Cu-Al ₂ O ₃ /H ₂ O hybrid nanofluid flow towards an EMHD plate. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101199.	5.7	43
100	Effects of Dufour and Soret mechanisms on MHD mixed convective-radiative non-Newtonian liquid flow and heat transfer over a porous sheet. <i>Thermal Science and Engineering Progress</i> , 2020, 16, 100459.	2.7	42
101	A two-phase closed thermosyphon operated with nanofluids for solar energy collectors: Thermodynamic modeling and entropy generation analysis. <i>Solar Energy</i> , 2020, 211, 192-209.	6.1	42
102	Mixed Convection of Silica-Molybdenum Disulphide/Water Hybrid Nanoliquid over a Rough Sphere. <i>Symmetry</i> , 2021, 13, 236.	2.2	42
103	Convective heat transfer of micropolar fluid in a horizontal wavy channel under the local heating. <i>International Journal of Mechanical Sciences</i> , 2017, 128-129, 541-549.	6.7	41
104	Natural convection combined with thermal radiation in a square cavity filled with a viscoelastic fluid. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018, 28, 624-640.	2.8	40
105	Two-dimensional problem of natural convection in a rectangular domain with local heating and heat-conducting boundaries of finite thickness. <i>Fluid Dynamics</i> , 2006, 41, 881-890.	0.9	39
106	Mixed Convection in a Ventilated Cavity Filled with a Triangular Porous Layer. <i>Transport in Porous Media</i> , 2017, 120, 1-21.	2.6	39
107	The influence of thermal radiation on unsteady free convection in inclined enclosures filled by a nanofluid with sinusoidal boundary conditions. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018, 28, 1738-1753.	2.8	39
108	Nonsimilar convective thermal transport analysis of EMHD stagnation Casson nanofluid flow subjected to particle shape factor and thermal radiations. <i>International Communications in Heat and Mass Transfer</i> , 2022, 137, 106230.	5.6	39

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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.	2.8	38
110	Entropy generation analysis of triple diffusive flow past a horizontal plate in porous medium. Chemical Engineering Science, 2020, 228, 115980.	3.8	38
111	Mathematical modelling of complex heat transfer in a rectangular enclosure. Thermophysics and Aeromechanics, 2009, 16, 119-128.	0.5	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.	2.8	37
113	Numerical simulation of MHD natural convection flow in a wavy cavity filled by a hybrid Cu-Al ₂ O ₃ -water nanofluid with discrete heating. Applied Mathematics and Mechanics (English) Tj ETQq1 1 0.7843146rgBT / 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.	4.9	36
115	Natural Convection and Entropy Generation in a Square Cavity with Variable Temperature Side Walls Filled with a Nanofluid: Buongiorno's Mathematical Model. Entropy, 2017, 19, 337.	2.2	36
116	Natural convection in a cubical cavity with different heat source configurations. Thermal Science and Engineering Progress, 2018, 7, 138-145.	2.7	36
117	Forced Convection of Fe ₃ O ₄ -Water Nanofluid in a Bifurcating Channel under the Effect of Variable Magnetic Field. Energies, 2019, 12, 666.	3.1	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.	6.7	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.	4.9	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.	2.7	35
121	Unsteady General Three-Dimensional Stagnation Point Flow of a Maxwell/Buongiorno Non-Newtonian Nanofluid. Journal of Nanofluids, 2019, 8, 1544-1559.	2.7	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.	2.5	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.	2.6	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.	2.1	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.	4.8	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.	3.6	32

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127	Precise prediction of biogas thermodynamic properties by using ANN algorithm. <i>Renewable Energy</i> , 2020, 147, 179-191.	8.9	32
128	Numerical study of mixed bio-convection associated with a micropolar fluid. <i>Thermal Science and Engineering Progress</i> , 2020, 18, 100539.	2.7	32
129	Natural convection in a partially heated wavy cavity filled with a nanofluid using Buongiorno's nanofluid model. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017, 27, 924-940.	2.8	31
130	Natural convective heat transfer through two entrapped triangular cavities filled with a nanofluid: Buongiorno's mathematical model. <i>International Journal of Mechanical Sciences</i> , 2017, 133, 484-494.	6.7	31
131	Natural Convection of Non-Newtonian Power-Law Fluid in a Square Cavity with a Heat-Generating Element. <i>Energies</i> , 2019, 12, 2149.	3.1	31
132	Computational Study of Heat Transfer inside Different PCMs Enhanced by Al ₂ O ₃ Nanoparticles in a Copper Heat Sink at High Heat Loads. <i>Nanomaterials</i> , 2020, 10, 284.	4.1	31
133	Enhancement of heat and mass transfer rates through various porous cavities for triple convective-diffusive free convection. <i>Energy</i> , 2020, 201, 117702.	8.8	31
134	Thermal convection of nano-liquid in an electronic cabinet with finned heat sink and heat generating element. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 2769-2778.	6.4	31
135	Onset of double-diffusive convection of a sparsely packed micropolar fluid in a porous medium layer saturated with a nanofluid. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	30
136	Unsteady Natural Convection with Temperature-Dependent Viscosity in a Square Cavity Filled with a Porous Medium. <i>Transport in Porous Media</i> , 2015, 110, 113-126.	2.6	29
137	Unsteady natural convection in a cubical cavity with a triangular heat source. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017, 27, 1795-1813.	2.8	29
138	Impact of particles tracking model of nanofluid on forced convection heat transfer within a wavy horizontal channel. <i>International Communications in Heat and Mass Transfer</i> , 2021, 122, 105176.	5.6	29
139	CONJUGATE NATURAL CONVECTION IN AN ENCLOSURE WITH LOCAL HEAT SOURCES. <i>Computational Thermal Sciences</i> , 2009, 1, 341-360.	0.9	29
140	Conjugate mixed convection in a rectangular cavity with a local heater. <i>International Journal of Mechanical Sciences</i> , 2018, 136, 243-251.	6.7	28
141	Effects of uniform rotation and porous layer on free convection in an enclosure having local heat source. <i>International Journal of Thermal Sciences</i> , 2019, 138, 276-284.	4.9	28
142	Thermo-hydrodynamic and entropy generation analysis of a dilute aqueous suspension enhanced with nano-encapsulated phase change material. <i>International Journal of Mechanical Sciences</i> , 2020, 178, 105609.	6.7	28
143	Effect of time-dependent wall temperature on natural convection of a non-Newtonian fluid in an enclosure. <i>International Journal of Thermal Sciences</i> , 2021, 166, 106973.	4.9	28
144	Natural Convection Coupled with Thermal Radiation in a Square Porous Cavity Having a Heated Plate Inside. <i>Transport in Porous Media</i> , 2016, 114, 843-857.	2.6	27

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158	Natural convection in a closed parallelepiped with a local energy source. <i>Journal of Applied Mechanics and Technical Physics</i> , 2013, 54, 588-595.	0.5	23
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