

Mikhail A Sheremet

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322 papers	8,793 citations	55 h-index	76 g-index
341 ext. papers	10,496 ext. citations	3.5 avg, IF	7.48 L-index

#	Paper	IF	Citations
3 ²²	Variable magnetic forces impact on magnetizable hybrid nanofluid heat transfer through a circular cavity. <i>Journal of Molecular Liquids</i> , 2019 , 277, 388-396	6	194
3 ²¹	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	2.8	146
3 ²⁰	Numerical simulation of natural convection heat transfer inside a + 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	3.7	134
3 ¹⁹	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	4.9	133
3 ¹⁸	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	5.5	127
3 ¹⁷	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	3.1	122
3 ¹⁶	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	122
3 ¹⁵	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	4.9	120
3 ¹⁴	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	4.9	118
3 ¹³	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	4.9	113
3 ¹²	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	4.9	110
3 ¹¹	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,	1.9	109
3 ¹⁰	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	4.9	109
3 ⁰⁹	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	4.5	99
3 ⁰⁸	MHD natural convection in a partially open trapezoidal cavity filled with a nanofluid. <i>International Journal of Mechanical Sciences</i> , 2016 , 119, 294-302	5.5	93
3 ⁰⁷	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	5.8	91
3 ⁰⁶	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	6	91

305	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	6	90
304	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	2.7	87
303	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	16.2	86
302	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	4.1	86
301	Entropy generation due to natural convection of a nanofluid in a partially open triangular cavity. <i>Advanced Powder Technology</i> , 2017 , 28, 244-255	4.6	86
300	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	4.9	81
299	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	7.8	81
298	Effect of thermal dispersion on transient natural convection in a wavy-walled porous cavity filled with a nanofluid: Tiwari and Das nanofluid model. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 92, 1053-1060	4.9	79
297	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	3.1	79
296	Free convection in a parallelogrammic porous cavity filled with a nanofluid using Tiwari and Das' nanofluid model. <i>PLoS ONE</i> , 2015 , 10, e0126486	3.7	78
295	Analysis of Entropy Generation in Natural Convection of Nanofluid inside a Square Cavity Having Hot Solid Block: Tiwari and Das Model. <i>Entropy</i> , 2016 , 18, 9	2.8	78
294	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	5.8	77
293	Convective Flow and Heat Transfer from Wavy Surfaces		77
292	Numerical investigation of natural convection of Al ₂ O ₃ -water nanofluid in a wavy cavity with conductive inner block using Buongiorno's two-phase model. <i>Advanced Powder Technology</i> , 2019 , 30, 399-414	4.6	76
291	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	5.5	76
290	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	4.9	74
289	Heat transfer inside cooling system based on phase change material with alumina nanoparticles. <i>Applied Thermal Engineering</i> , 2018 , 144, 972-981	5.8	74
288	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	2.8	72

287	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	4.9	71
286	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	5.5	70
285	MHD thermogravitational convection and thermal radiation of a micropolar nanoliquid in a porous chamber. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 110, 104409	5.8	67
284	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	4.9	67
283	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	4.1	66
282	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	4.9	66
281	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	6	65
280	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	2.8	65
279	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	5.5	65
278	Thermo-Bioconvection in a Square Porous Cavity Filled by Oxytactic Microorganisms. <i>Transport in Porous Media</i> , 2014 , 103, 191-205	3.1	64
277	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	3	64
276	Coupled FHD-MHD free convection of a hybrid nanoliquid in an inversed T-shaped enclosure occupied by partitioned porous media. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019 , 76, 479-498	2.3	63
275	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	4.9	61
274	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	4.1	61
273	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	3.5	60
272	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	4.9	60
271	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	59
270	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	59

269	Conjugate natural convection of Al ₂ O ₃ /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	5.5	57
268	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	4.9	57
267	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	4.9	54
266	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	6	54
265	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	4.9	53
264	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	2.3	52
263	A numerical simulation of double-diffusive conjugate natural convection in an enclosure. <i>International Journal of Thermal Sciences</i> , 2011 , 50, 1878-1886	4.1	51
262	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	2.7	50
261	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	4.9	50
260	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	4.9	50
259	Free convection in a porous horizontal cylindrical annulus with a nanofluid using Buongiorno's model. <i>Computers and Fluids</i> , 2015 , 118, 182-190	2.8	49
258	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	2.8	48
257	Numerical simulation of turbulent natural convection in a rectangular enclosure having finite thickness walls. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 163-177	4.9	48
256	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	5.5	46
255	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	4.6	46
254	Thermogravitational convection of magnetic micropolar nanofluid with coupling between energy and angular momentum equations. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 145, 118748	4.9	45
253	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. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 72, 54-67	2.3	45
252	Conjugate natural convection in an enclosure with a heat source of constant heat transfer rate. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 260-268	4.9	45

251	Simulation of nanoliquid thermogravitational convection within a porous chamber imposing magnetic and radiation impacts. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 550, 124058	3.3	45
250	Natural convection of micropolar fluid in a wavy differentially heated cavity. <i>Journal of Molecular Liquids</i> , 2016 , 221, 518-525	6	44
249	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	4.9	43
248	Free Convection in Shallow and Slender Porous Cavities Filled by a Nanofluid Using Buongiorno's Model. <i>Journal of Heat Transfer</i> , 2014 , 136,	1.8	43
247	Double-Diffusive Mixed Convection in a Porous Open Cavity Filled with a Nanofluid Using Buongiorno's Model. <i>Transport in Porous Media</i> , 2015 , 109, 131-145	3.1	42
246	MHD natural convection of Cu/H ₂ O nanofluid in a horizontal semi-cylinder with a local triangular heater. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018 , 28, 2979-2996	4.5	42
245	Fluid-structure interaction in natural convection heat transfer in an oblique cavity with a flexible oscillating fin and partial heating. <i>Applied Thermal Engineering</i> , 2018 , 145, 80-97	5.8	42
244	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	4.9	41
243	Conjugate natural convection with radiation in an enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 2215-2223	4.9	41
242	Laminar natural convection in an inclined cylindrical enclosure having finite thickness walls. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 3582-3600	4.9	40
241	Free convection in a trapezoidal cavity filled with a micropolar fluid. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 99, 831-838	4.9	40
240	Examining of nanofluid natural convection heat transfer in a E-shaped enclosure including a rectangular hot obstacle using the lattice Boltzmann method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 526, 120831	3.3	39
239	Natural convection of Al ₂ O ₃ /H ₂ O nanofluid in an open inclined cavity with a heat-generating element. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 126, 184-191	4.9	39
238	Numerical simulation of thermogravitational energy transport of a hybrid nanoliquid within a porous triangular chamber using the two-phase mixture approach. <i>Advanced Powder Technology</i> , 2020 , 31, 2493-2504	4.6	38
237	Mixed convection of Al ₂ O ₃ -H ₂ O nanoliquid in a square chamber with complicated fin. <i>International Journal of Mechanical Sciences</i> , 2020 , 165, 105192	5.5	37
236	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	6	37
235	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	2.3	36
234	Free convection in a square porous cavity filled with a nanofluid using thermal non equilibrium and Buongiorno models. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2016 , 26, 671-693	4.5	35

233	Mathematical modelling of complex heat transfer in a rectangular enclosure. <i>Thermophysics and Aeromechanics</i> , 2009 , 16, 119-128	0.9	34
232	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	4.5	34
231	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	5.5	33
230	Transient natural convection in a partially open trapezoidal cavity filled with a water-based nanofluid under the effects of Brownian diffusion and thermophoresis. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018 , 28, 606-623	4.5	33
229	Turbulent natural convection combined with thermal surface radiation inside an inclined cavity having local heater. <i>International Journal of Thermal Sciences</i> , 2018 , 124, 122-130	4.1	33
228	Magnetohydrodynamics flow of a nanofluid driven by a stretching/shrinking sheet with suction. <i>SpringerPlus</i> , 2016 , 5, 1901		33
227	Mixed Convection in a Ventilated Cavity Filled with a Triangular Porous Layer. <i>Transport in Porous Media</i> , 2017 , 120, 1-21	3.1	32
226	Mixed convection of hybrid nanofluid in a porous trapezoidal chamber. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 116, 104627	5.8	32
225	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	32
224	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	0.7	32
223	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	4.5	31
222	Free convection in a square cavity filled with a Casson fluid under the effects of thermal radiation and viscous dissipation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017 , 27, 2318-2332	4.5	31
221	Mass transpiration on Newtonian flow over a porous stretching/shrinking sheet with slip. <i>Chinese Journal of Physics</i> , 2020 , 63, 130-137	3.5	31
220	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	3.5	30
219	3D natural convection melting in a cubical cavity with a heat source. <i>International Journal of Thermal Sciences</i> , 2017 , 115, 43-53	4.1	29
218	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> , 2019 , 30, 1291-1317	4.5	29
217	Natural convection in a cubical cavity with different heat source configurations. <i>Thermal Science and Engineering Progress</i> , 2018 , 7, 138-145	3.6	28
216	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	5.8	28

215	Natural convection in a trapezoidal cavity filled with a micropolar fluid under the effect of a local heat source. <i>International Journal of Mechanical Sciences</i> , 2017 , 120, 182-189	5.5	27
214	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. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 72, 479-494	2.3	27
213	Forced Convection of Fe ₃ O ₄ -Water Nanofluid in a Bifurcating Channel under the Effect of Variable Magnetic Field. <i>Energies</i> , 2019 , 12, 666	3.1	27
212	Mixed convection heat transfer in a square porous cavity filled with a nanofluid with suction/injection effect. <i>Computers and Mathematics With Applications</i> , 2018 , 76, 2665-2677	2.7	27
211	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	3.1	26
210	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. <i>European Journal of Mechanics, B/Fluids</i> , 2018 , 70, 148-159	2.4	26
209	Mixed convection heat transfer of a nanofluid in a lid-driven enclosure with two adherent porous blocks. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 1095-1105	4.1	26
208	Unsteady Conjugate Natural Convection in a Vertical Cylinder Containing a Horizontal Porous Layer: Darcy Model and Brinkman-Extended Darcy Model. <i>Transport in Porous Media</i> , 2014 , 101, 437-463	3.1	26
207	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	3.6	26
206	Effect of nanoparticle shape on the performance of thermal systems utilizing nanofluids: A critical review. <i>Journal of Molecular Liquids</i> , 2021 , 321, 114430	6	26
205	Magnetohydrodynamic in partially heated square cavity with variable properties: Discrepancy in experimental and theoretical conductivity correlations. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 116, 532-548	4.9	25
204	Natural Convection and Entropy Generation in a Square Cavity with Variable Temperature Side Walls Filled with a Nanofluid: Buongiorno's Mathematical Model. <i>Entropy</i> , 2017 , 19, 337	2.8	25
203	CONJUGATE NATURAL CONVECTION IN AN ENCLOSURE WITH LOCAL HEAT SOURCES. <i>Computational Thermal Sciences</i> , 2009 , 1, 341-360	1.9	25
202	Convective heat transfer in a lid-driven cavity with a heat-conducting solid backward step under the effect of buoyancy force. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 112, 158-168	4.9	24
201	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	4.5	24
200	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	3.1	24
199	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	2.8	24
198	Marangoni natural convection in a cubical cavity filled with a nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 357-369	4.1	24

197	Natural convection in a triangular cavity filled with a micropolar fluid. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017 , 27, 504-515	4.5	23
196	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	5.5	23
195	Influence of temperature dependent conductivity of a nanofluid in a vertical rectangular duct. <i>International Journal of Non-Linear Mechanics</i> , 2016 , 78, 17-28	2.8	22
194	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	4.5	22
193	Computational Study of Heat Transfer inside Different PCMs Enhanced by AlO Nanoparticles in a Copper Heat Sink at High Heat Loads. <i>Nanomaterials</i> , 2020 , 10,	5.4	21
192	Unsteady natural convection in a partially porous cavity having a heat-generating source using local thermal non-equilibrium model. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 1902-1919	4.5	21
191	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	5.5	20
190	Unsteady General Three-Dimensional Stagnation Point Flow of a Maxwell/Buongiorno Non-Newtonian Nanofluid. <i>Journal of Nanofluids</i> , 2019 , 8, 1544-1559	2.2	20
189	Natural convection of an alumina-water nanofluid inside an inclined wavy-walled cavity with a non-uniform heating using Tiwari and Das nanofluid model. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2018 , 39, 1425-1436	3.2	20
188	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	19
187	Thermogravitational Convection of Hybrid Nanofluid in a Porous Chamber with a Central Heat-Conducting Body. <i>Symmetry</i> , 2020 , 12, 593	2.7	19
186	Natural convection in a closed parallelepiped with a local energy source. <i>Journal of Applied Mechanics and Technical Physics</i> , 2013 , 54, 588-595	0.6	19
185	Impacts of moving wall and heat-generating element on heat transfer and entropy generation of Al ₂ O ₃ /H ₂ O nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 136, 673-686	4.1	19
184	Enhancement of heat transfer of nanofluids in the presence of sinusoidal side obstacles between two parallel plates through the lattice Boltzmann method. <i>International Journal of Mechanical Sciences</i> , 2019 , 156, 159-169	5.5	18
183	Enhancement of heat and mass transfer rates through various porous cavities for triple convective-diffusive free convection. <i>Energy</i> , 2020 , 201, 117702	7.9	18
182	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	4.5	18
181	Numerical analysis of convective heat transfer in a closed two-phase thermosyphon. <i>Journal of Engineering Thermophysics</i> , 2011 , 20, 201-210	1.4	18
180	Precise prediction of biogas thermodynamic properties by using ANN algorithm. <i>Renewable Energy</i> , 2020 , 147, 179-191	8.1	18

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171	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	4.1	17
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