

Mikhail A Sheremet

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Numerical Simulation of Solid and Porous Fins Impact on Heat Transfer Performance in a Differentially Heated Chamber. <i>Mathematics</i> , 2022 , 10, 263	2.3	1
3 ²¹	Numerical Analysis of Heat Transfer through Hollow Brick Using Finite-Difference Method. <i>Axioms</i> , 2022 , 11, 37	1.6	1
3 ²⁰	Influence of Liquid Hydrogen Diffusion on Nonlinear Mixed Convective Circulation around a Yawed Cylinder. <i>Symmetry</i> , 2022 , 14, 337	2.7	1
3 ¹⁹	Effects of temperature oscillation on unsteady MHD hybrid nanofluid motion over a semi-infinite moving vertical sheet. <i>Heat Transfer</i> , 2022 , 51, 818	3.1	1
3 ¹⁸	Entropy Analysis of the Thermal Convection of Nanosuspension within a Chamber with a Heat-Conducting Solid Fin.. <i>Entropy</i> , 2022 , 24,	2.8	1
3 ¹⁷	Effect of Non-Identical Magnetic Fields on Thermomagnetic Convective Flow of a Nanoliquid Using Buongiorno Model. <i>Mathematics</i> , 2022 , 10, 1222	2.3	0
3 ¹⁶	Thermogravitational Convective Flow and Energy Transport in an Electronic Cabinet with a Heat-Generating Element and Solid/Porous Finned Heat Sink. <i>Mathematics</i> , 2022 , 10, 34	2.3	1
3 ¹⁵	The Coriolis Effect on Thermal Convection in a Rotating Sparsely Packed Porous Layer in Presence of Cross-Diffusion. <i>Coatings</i> , 2022 , 12, 23	2.9	2
3 ¹⁴	The effect of nano encapsulated phase change materials and nanoparticles on turbulent heat transport: A conical diffuser scenario. <i>Journal of Energy Storage</i> , 2022 , 52, 104703	7.8	1
3 ¹³	Convection in a differentially heated cubic cavity rolling about horizontal axis. <i>International Journal of Thermal Sciences</i> , 2022 , 179, 107639	4.1	1
3 ¹²	Influence of PCM heat sink shape on cooling of heat-generating elements in electronics. <i>Applied Thermal Engineering</i> , 2022 , 213, 118695	5.8	0
3 ¹¹	Transient thermogravitational convection for magneto hybrid nanofluid in a deep cavity with multiple isothermal source-sink pairs. <i>International Journal of Thermal Sciences</i> , 2021 , 173, 107376	4.1	0
3 ¹⁰	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. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 129, 105712	5.8	1
3 ⁰⁹	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	5.6	14
3 ⁰⁸	Thermal convection and entropy generation of ferrofluid in an enclosure containing a solid body. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , 31, 2940-2961	4.5	1
3 ⁰⁷	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	5.8	15
3 ⁰⁶	Natural convection of Al ₂ O ₃ -water nanosuspension in a semi-open domain with composite fin. <i>Physics of Fluids</i> , 2021 , 33, 033606	4.4	4

305	Influence of the Fin Shape on Heat Transport in Phase Change Material Heat Sink with Constant Heat Loads. <i>Energies</i> , 2021 , 14, 1389	3.1	1
304	Latent Heat Thermal Storage of Nano-Enhanced Phase Change Material Filled by Copper Foam with Linear Porosity Variation in Vertical Direction. <i>Energies</i> , 2021 , 14, 1508	3.1	2
303	Magnetized Dissipative Soret Effect on Chemically Reactive Maxwell Fluid over a Stretching Sheet with Joule Heating. <i>Coatings</i> , 2021 , 11, 528	2.9	2
302	Brownian motion of magnetonano fluid flow in an undulated partially heated enclosure. <i>International Journal of Mechanical Sciences</i> , 2021 , 198, 106346	5.5	5
301	Study of paraffin-based composite-phase change materials for a shell and tube energy storage system: A mesh adaptation approach. <i>Applied Thermal Engineering</i> , 2021 , 190, 116793	5.8	4
300	Numerical Investigation of Mixing by Induced Electrokinetic Flow in T-Micromixer with Conductive Curved Arc Plate. <i>Symmetry</i> , 2021 , 13, 915	2.7	2
299	Semi-Analytical Solution of Two-Dimensional Viscous Flow through Expanding/Contracting Gaps with Permeable Walls. <i>Mathematical and Computational Applications</i> , 2021 , 26, 41	1	1
298	Impacts of Uniform Magnetic Field and Internal Heated Vertical Plate on Ferrofluid Free Convection and Entropy Generation in a Square Chamber. <i>Entropy</i> , 2021 , 23,	2.8	4
297	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	6.1	18
296	Nonlinear Mixed Convective Flow over a Moving Yawed Cylinder Driven by Buoyancy. <i>Mathematics</i> , 2021 , 9, 1275	2.3	4
295	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
294	Thermal convection in a cubical region saturated with a temperature-dependent viscosity fluid under the non-uniform temperature profile at vertical wall. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 126, 105442	5.8	1
293	Heat transfer of viscous fluid in a vertical channel sandwiched between nanofluid porous zones. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 144, 1389-1399	4.1	7
292	Effect of the time-dependent volumetric heat flux on heat transfer performance inside a heat sink based on the phase change materials. <i>Clean Technologies and Environmental Policy</i> , 2021 , 23, 1151-1160	4.3	3
291	Influence of the chamber inclination angle and heat-generating element location on thermal convection of power-law medium in a chamber. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , 31, 134-153	4.5	3
290	Entropy generation on double diffusive MHD Casson nanofluid flow with convective heat transfer and activation energy. <i>Indian Journal of Physics</i> , 2021 , 95, 1423-1436	1.4	13
289	Thermal convection in a chamber filled with a nanosuspension driven by a chemical reaction using Tiwari and Das model. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , 31, 452-470	4.5	7
288	Thermal radiation and natural convection in a large-scale enclosure heated from below: Building application. <i>Building Simulation</i> , 2021 , 14, 681-691	3.9	5

287	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
286	Effects of internal heat generation and Lorentz force on unsteady hybrid nanoliquid flow and heat transfer along a moving plate with nonuniform temperature. <i>Heat Transfer</i> , 2021 , 50, 2975-2996	3.1	5
285	Double diffusion in a rectangular duct using metals or oxides suspended in a viscous fluid. <i>Thermal Science and Engineering Progress</i> , 2021 , 21, 100793	3.6	3
284	The influence of external temperature and convective heat exchange with an environment on heat transfer inside phase change material embedded brick. <i>Journal of Energy Storage</i> , 2021 , 33, 102087	7.8	7
283	Free Convection Heat Transfer and Entropy Generation in an Odd-Shaped Cavity Filled with a Cu-Al ₂ O ₃ Hybrid Nanofluid. <i>Symmetry</i> , 2021 , 13, 122	2.7	1
282	Mixed Convection of Silica-Molybdenum Disulphide/Water Hybrid Nanoliquid over a Rough Sphere. <i>Symmetry</i> , 2021 , 13, 236	2.7	9
281	Mixed convection in a chamber saturated with MWCNT-Fe ₃ O ₄ /water hybrid nanofluid under the upper wall velocity modulation. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	5
280	Thermal convection and radiation in a rotating cabinet with time-dependent heat-generated solid element and heat-conducting solid walls. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , ahead-of-print,	4.5	2
279	Simulation of Thermal Radiation and Turbulent Free Convection in an Enclosure with a Glass Wall and a Local Heater. <i>Fluids</i> , 2021 , 6, 91	1.6	3
278	Natural Convection Melting Influence on the Thermal Resistance of a Brick Partially Filled with Phase Change Material. <i>Fluids</i> , 2021 , 6, 258	1.6	2
277	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	4.1	6
276	Heat transfer analysis of rectangular porous fins in local thermal non-equilibrium model. <i>Applied Thermal Engineering</i> , 2021 , 195, 117237	5.8	9
275	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	5.6	16
274	Numerical Investigation of Conjugate Natural Convection in a Cavity with a Local Heater by the Lattice Boltzmann Method. <i>Fluids</i> , 2021 , 6, 316	1.6	2
273	Automation of the heated floor system in a room under the influence of ambient conditions. <i>Applied Thermal Engineering</i> , 2021 , 196, 117298	5.8	0
272	Irreversibilities in a triple diffusive flow in various porous cavities. <i>Chinese Journal of Physics</i> , 2021 , 73, 239-255	3.5	1
271	Impact of porous complicated fin and sinusoidal-heated wall on thermogravitational convection of different nanofluids in a square domain. <i>International Journal of Thermal Sciences</i> , 2021 , 168, 107053	4.1	0
270	Influence of phase change material melting point and its location on heat and mass transfer in a brick. <i>Journal of Energy Storage</i> , 2021 , 42, 103122	7.8	2

269	Heat transfer of chemically reacting mixed convection fluid using convective surface condition: Non-Darcy model. <i>Thermal Science and Engineering Progress</i> , 2021 , 25, 101044	3.6	1
268	Effect of third size on natural convection of variable viscosity fluid in a closed parallelepiped. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 128, 105618	5.8	1
267	Cooling of periodically heat-generated element under the convective-radiative heat transfer in a rotating domain with a thermally conducting base plate. <i>International Journal of Thermal Sciences</i> , 2021 , 170, 107150	4.1	2
266	Thermoelectric Generation with Impinging Nano-Jets. <i>Energies</i> , 2021 , 14, 492	3.1	1
265	Heat Transfer Within PCM Heat Sink in the Presence of Copper Profile and Local Element of the Time-Dependent Internal Heat Generation 2021 , 899-902		
264	Nanoparticle impact on discharging of PCM through a thermal storage involving numerical modeling for heat transfer and irreversibility. <i>Powder Technology</i> , 2020 , 376, 424-437	5.2	8
263	Eco-friendly and scalable radiative cooling for metal substrates with electrophoretically deposited chitosan. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 216, 110707	6.4	5
262	Effect of Porous Medium and Copper Heat Sink on Cooling of Heat-Generating Element. <i>Energies</i> , 2020 , 13, 2538	3.1	7
261	Nanomaterial thermal performance within a pipe in presence of turbulator. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 3421-3430	3.3	13
260	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
259	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. <i>International Journal of Thermal Sciences</i> , 2020 , 155, 106427	4.1	12
258	Inclusion of nanoparticles in PCM for heat release unit. <i>Journal of Molecular Liquids</i> , 2020 , 313, 113544	6	15
257	Simulation for melting of paraffin for saving energy with utilize of nanoparticles. <i>Journal of Molecular Liquids</i> , 2020 , 313, 113574	6	10
256	Magnetohydrodynamics energy transport inside a double lid-driven wavy-walled chamber: Impacts of inner solid cylinder and two-phase nanoliquid approach. <i>International Journal of Mechanical Sciences</i> , 2020 , 184, 105846	5.5	11
255	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
254	Thermal Convection of Nanoliquid in a Double-Connected Chamber. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
253	Discharging of PCM for ventilation system incorporating nanoparticles. <i>Journal of Molecular Liquids</i> , 2020 , 315, 113696	6	7
252	Cooling System with Porous Finned Heat Sink for Heat-Generating Element. <i>Transport in Porous Media</i> , 2020 , 133, 459-478	3.1	5

251	Numerical analysis of heat source surface emissivity impact on heat transfer performance in a rectangular enclosure at high Rayleigh numbers. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2020 , 21, 205-214	0.7	1
250	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
249	Analysis of supercritical free convection in Newtonian and couple stress fluids through EOS approach. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 152, 119542	4.9	5
248	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
247	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
246	Thermogravitational Convection of Hybrid Nanofluid in a Porous Chamber with a Central Heat-Conducting Body. <i>Symmetry</i> , 2020 , 12, 593	2.7	19
245	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
244	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
243	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
242	Natural Convection Melting of PCM: Numerical Simulation Techniques and Applications. <i>Springer Proceedings in Mathematics and Statistics</i> , 2020 , 311-320	0.2	
241	Numerical Simulation of Heat Transfer in an Enclosure with Time-Periodic Heat Generation Using Finite-Difference Method. <i>Lecture Notes in Computer Science</i> , 2020 , 149-162	0.9	1
240	Influence of thermal radiation on thermogravitational convection in a tilted chamber having heat-producing solid body. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 115, 104611	5.8	8
239	Precise prediction of biogas thermodynamic properties by using ANN algorithm. <i>Renewable Energy</i> , 2020 , 147, 179-191	8.1	18
238	Convection in a vertical duct under the chemical reaction influence using Robin boundary conditions. <i>Thermal Science and Engineering Progress</i> , 2020 , 15, 100440	3.6	4
237	Soret effects on the mixed convection flow using Robin boundary conditions. <i>Heat Transfer - Asian Research</i> , 2020 , 49, 154-179	2.8	4
236	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
235	Nanoliquid thermal convection in I-shaped multiple-pipe heat exchanger under magnetic field influence. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 550, 124028	3.3	6
234	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

233	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
232	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
231	Investigation of thermal-hydro dynamical behavior on nano-encapsulated PCM suspension: Effect of fin position, fractioning and aspect ratio. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 157, 108122	3.7	10
230	Entropy generation and natural convection flow of a suspension containing nano-encapsulated phase change particles in a semi-annular cavity. <i>Journal of Energy Storage</i> , 2020 , 32, 101834	7.8	8
229	Natural convection combined with surface radiation in a rotating cavity with an element of variable volumetric heat generation. <i>Energy</i> , 2020 , 210, 118543	7.9	8
228	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	6.8	18
227	Mixed convection-radiation in lid-driven cavities with nanofluids and time-dependent heat-generating body. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 146, 725	4.1	6
226	Entropy generation analysis of triple diffusive flow past a horizontal plate in porous medium. <i>Chemical Engineering Science</i> , 2020 , 228, 115980	4.4	18
225	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
224	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. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020 , 41, 1345-1358	3.2	15
223	Thermal performance in transient MHD thermogravitational convection of nanofluid with various heating effects. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 146, 1255	4.1	3
222	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
221	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
220	Numerical study of mixed bio-convection associated with a micropolar fluid. <i>Thermal Science and Engineering Progress</i> , 2020 , 18, 100539	3.6	15
219	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
218	Effect of trapezoidal heater on natural convection heat transfer and fluid flow inside a cubical cavity. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 1232-1248	4.5	10
217	Natural convection in differentially heated enclosures subjected to variable temperature boundaries. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 4130-4141	4.5	5
216	Impacts of Non-Uniform Border Temperature Variations on Time-Dependent Nanofluid Free Convection within a Trapezium: Buongiorno's Nanofluid Model. <i>Energies</i> , 2019 , 12, 1461	3.1	12

215	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
214	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
213	MHD Buoyancy Flow of Nanofluids over an Inclined Plate Immersed in Uniform Porous Medium in the Presence of Solar Radiation. <i>Journal of Mechanics</i> , 2019 , 35, 563-576	1	11
212	The Influence of Surface Radiation on the Passive Cooling of a Heat-Generating Element. <i>Energies</i> , 2019 , 12, 980	3.1	5
211	Thermal convection in Al ₂ O ₃ -Water nanoliquid rotating chamber with a local isothermal heater. <i>International Journal of Mechanical Sciences</i> , 2019 , 156, 137-145	5.5	15
210	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
209	MHD flow in a vertical channel under the effect of temperature dependent physical parameters. <i>Chinese Journal of Physics</i> , 2019 , 58, 324-338	3.5	14
208	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
207	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
206	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
205	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
204	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
203	Free Convection of Hybrid Nanofluids in a C-Shaped Chamber under Variable Heat Flux and Magnetic Field: Simulation, Sensitivity Analysis, and Artificial Neural Networks. <i>Energies</i> , 2019 , 12, 2807	3.1	10
202	Flow and heat transfer of couple stress nanofluid sandwiched between viscous fluids. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 4262-4276	4.5	6
201	Thermal and Fluid Dynamic Behaviors of Confined Slot Jets Impinging on an Isothermal Moving Surface with Nanofluids. <i>Energies</i> , 2019 , 12, 2074	3.1	12
200	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
199	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. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 144, 118530	4.9	9
198	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

197	Soft Computing Approaches for Thermal Conductivity Estimation of CNT/Water Nanofluid. <i>Revue Des Composites Et Des Materiaux Avances</i> , 2019 , 29, 71-82	2.1	6
196	Effect of Nano-Sized Heat Transfer Enhancers on PCM-Based Heat Sink Performance at Various Heat Loads. <i>Nanomaterials</i> , 2019 , 10,	5.4	18
195	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
194	Thermogravitational convection of Al ₂ O ₃ -H ₂ O nanoliquid in a square chamber with intermittent blocks. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 1365-1378	4.5	2
193	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
192	Non-equilibrium natural convection in a differentially-heated nanofluid cavity partially filled with a porous medium. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 2524-2544	4.5	16
191	Effect of Mass Transfer and MHD Induced Navier-Slip Flow Due to a non Linear Stretching Sheet. <i>Journal of Engineering Thermophysics</i> , 2019 , 28, 578-590	1.4	9
190	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
189	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
188	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
187	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
186	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
185	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
184	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
183	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
182	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
181	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
180	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

179	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
178	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
177	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
176	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
175	Unsteady Conjugate Natural Convective Heat Transfer and Entropy Generation in a Porous Semicircular Cavity. <i>Journal of Heat Transfer</i> , 2018 , 140,	1.8	12
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173	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
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170	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
169	Conjugate mixed convection in a rectangular cavity with a local heater. <i>International Journal of Mechanical Sciences</i> , 2018 , 136, 243-251	5.5	17
168	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
167	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
166	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
165	Double-Diffusive Natural Convection in a Differentially Heated Wavy Cavity Under Thermophoresis Effect. <i>Journal of Thermophysics and Heat Transfer</i> , 2018 , 32, 1045-1058	1.3	12
164	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
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161	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
160	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
159	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
158	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
157	Convective-radiative heat transfer in a cavity filled with a nanofluid under the effect of a nonuniformly heated plate. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018 , 28, 1392-1409	4.5	13
156	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
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148	Natural convection melting of nano-enhanced phase change material in a cavity with finned copper profile. <i>MATEC Web of Conferences</i> , 2018 , 240, 01006	0.3	2
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133	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
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118	Unsteady natural convection with entropy generation in partially open triangular cavities with a local heat source. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017 , 27, 2696-2716	4.5	8
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84	Magnetohydrodynamics flow of a nanofluid driven by a stretching/shrinking sheet with suction. <i>SpringerPlus</i> , 2016 , 5, 1901		33
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81	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
80	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
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78	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
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47	Mathematical simulation of nonstationary regimes of natural convection in a cubical enclosure with finite-thickness heat-conducting walls. <i>Journal of Engineering Thermophysics</i> , 2013 , 22, 298-308	1.4	4
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38	Numerical Simulation of Conjugate Natural Convection in an Inclined Cylinder. <i>Heat Transfer Research</i> , 2011 , 42, 473-485	3.9	0
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24	Effect of thermodiffusion on convective heat and mass transfer in enclosures with heat-conducting walls. <i>Journal of Engineering Thermophysics</i> , 2010 , 19, 111-118	1.4	0
23	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
22	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
21	Turbulent regime of thermogravitational convection in a closed cavity. <i>Journal of Engineering Physics and Thermophysics</i> , 2010 , 83, 346-357	0.6	
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18	Conjugate natural convection with radiation in an enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 2215-2223	4.9	41

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14	Numerical modeling of temperature fields in the elements and units of electronic systems. <i>Russian Microelectronics</i> , 2009 , 38, 312-319	0.5	3
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12	Conjugate problem of thermogravitational convection in a rectangular region with a local heat source. <i>Journal of Engineering Physics and Thermophysics</i> , 2008 , 81, 92-99	0.6	
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