

Mohsen Sheikholeslami

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308
papers

23,584
citations

91
h-index

144
g-index

313
ext. papers

25,542
ext. citations

4.4
avg, IF

8.69
L-index

#	Paper	IF	Citations
308	Effect of thermal radiation on magnetohydrodynamics nanofluid flow and heat transfer by means of two phase model. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 374, 36-43	2.8	616
307	Three dimensional mesoscopic simulation of magnetic field effect on natural convection of nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 89, 799-808	4.9	515
306	New computational approach for exergy and entropy analysis of nanofluid under the impact of Lorentz force through a porous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 344, 319-333	5.7	442
305	Numerical approach for MHD Al ₂ O ₃ -water nanofluid transportation inside a permeable medium using innovative computer method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 344, 306-318	5.7	379
304	Heat transfer behavior of nanoparticle enhanced PCM solidification through an enclosure with V shaped fins. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 130, 1322-1342	4.9	361
303	Ferrohydrodynamic and magnetohydrodynamic effects on ferrofluid flow and convective heat transfer. <i>Energy</i> , 2014 , 75, 400-410	7.9	338
302	Forced convection heat transfer in a semi annulus under the influence of a variable magnetic field. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 92, 339-348	4.9	332
301	Heat transfer simulation of heat storage unit with nanoparticles and fins through a heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 135, 470-478	4.9	300
300	Numerical simulation of magnetic nanofluid natural convection in porous media. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 494-503	2.3	298
299	Simulation of MHD CuO-water nanofluid flow and convective heat transfer considering Lorentz forces. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 369, 69-80	2.8	295
298	Simulation of nanofluid heat transfer in presence of magnetic field: A review. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 1203-1233	4.9	283
297	Forced convection of nanofluid in presence of constant magnetic field considering shape effects of nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 111, 1039-1049	4.9	269
296	Nanofluid flow and heat transfer between parallel plates considering Brownian motion using DTM. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 283, 651-663	5.7	265
295	Review of heat transfer enhancement methods: Focus on passive methods using swirl flow devices. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 49, 444-469	16.2	263
294	CuO-water nanofluid flow due to magnetic field inside a porous media considering Brownian motion. <i>Journal of Molecular Liquids</i> , 2018 , 249, 921-929	6	257
293	Heat transfer and turbulent simulation of nanomaterial due to compound turbulator including irreversibility analysis. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 137, 1290-1300	4.9	250
292	Entropy generation of nanofluid in presence of magnetic field using Lattice Boltzmann Method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015 , 417, 273-286	3.3	250

291	Nanofluid flow and heat transfer in a rotating system in the presence of a magnetic field. <i>Journal of Molecular Liquids</i> , 2014 , 190, 112-120	6	248
290	Numerical simulation for solidification in a LHTESS by means of nano-enhanced PCM. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018 , 86, 25-41	5.3	247
289	Investigation of squeezing unsteady nanofluid flow using ADM. <i>Powder Technology</i> , 2013 , 239, 259-265	5.2	244
288	Application of nano-refrigerant for boiling heat transfer enhancement employing an experimental study. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 141, 974-980	4.9	242
287	Magnetic field influence on nanofluid thermal radiation in a cavity with tilted elliptic inner cylinder. <i>Journal of Molecular Liquids</i> , 2017 , 229, 137-147	6	241
286	Heat transfer of nanoparticles employing innovative turbulator considering entropy generation. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 136, 1233-1240	4.9	240
285	Simulation of nanofluid flow and natural convection in a porous media under the influence of electric field using CVFEM. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 120, 772-781	4.9	226
284	Enhancement of PCM solidification using inorganic nanoparticles and an external magnetic field with application in energy storage systems. <i>Journal of Cleaner Production</i> , 2019 , 215, 963-977	10.3	224
283	Simulation of CuO-water nanofluid heat transfer enhancement in presence of melting surface. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 116, 909-919	4.9	222
282	Numerical investigation of nanofluid free convection under the influence of electric field in a porous enclosure. <i>Journal of Molecular Liquids</i> , 2018 , 249, 1212-1221	6	215
281	Magnetohydrodynamic nanofluid forced convection in a porous lid driven cubic cavity using Lattice Boltzmann method. <i>Journal of Molecular Liquids</i> , 2017 , 231, 555-565	6	214
280	Influence of Lorentz forces on nanofluid flow in a porous cylinder considering Darcy model. <i>Journal of Molecular Liquids</i> , 2017 , 225, 903-912	6	211
279	Analytical investigation of MHD nanofluid flow in a semi-porous channel. <i>Powder Technology</i> , 2013 , 246, 327-336	5.2	211
278	Numerical simulation of MHD nanofluid flow and heat transfer considering viscous dissipation. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 79, 212-222	4.9	207
277	Effects of Heat Transfer in Flow of Nanofluids Over a Permeable Stretching Wall in a Porous Medium. <i>Journal of Computational and Theoretical Nanoscience</i> , 2014 , 11, 486-496	0.3	207
276	Lattice Boltzmann method simulation for MHD non-Darcy nanofluid free convection. <i>Physica B: Condensed Matter</i> , 2017 , 516, 55-71	2.8	205
275	Heat transfer improvement and pressure drop during condensation of refrigerant-based nanofluid; an experimental procedure. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 122, 643-650	4.9	204
274	Analysis of flow and heat transfer in water based nanofluid due to magnetic field in a porous enclosure with constant heat flux using CVFEM. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 320, 68-81	5.7	201

273	Flow and convective heat transfer of a ferro-nanofluid in a double-sided lid-driven cavity with a wavy wall in the presence of a variable magnetic field. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016 , 69, 1186-1200	2.3	200
272	Effect of space dependent magnetic field on free convection of Fe ₃ O ₄ /water nanofluid. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015 , 56, 6-15	5.3	199
271	Acceleration of discharge process of clean energy storage unit with insertion of porous foam considering nanoparticle enhanced paraffin. <i>Journal of Cleaner Production</i> , 2020 , 261, 121206	10.3	196
270	Magnetic field influence on CuO/Al ₂ O ₃ nanofluid convective flow in a permeable cavity considering various shapes for nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 19611-19621	6.7	194
269	Mesoscopic method for MHD nanofluid flow inside a porous cavity considering various shapes of nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 113, 106-114	4.9	190
268	Magnetic field effects on natural convection flow of a nanofluid in a horizontal cylindrical annulus using Lattice Boltzmann method. <i>International Journal of Thermal Sciences</i> , 2013 , 64, 240-250	4.1	184
267	Ferrofluid flow and heat transfer in a semi annulus enclosure in the presence of magnetic source considering thermal radiation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015 , 47, 6-17	5.3	183
266	Simulation of water based nanofluid convective flow inside a porous enclosure via non-equilibrium model. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 120, 1200-1212	4.9	183
265	Effect of a magnetic field on natural convection in an inclined half-annulus enclosure filled with Cu/water nanofluid using CVFEM. <i>Advanced Powder Technology</i> , 2013 , 24, 980-991	4.6	183
264	Fe ₃ O ₄ /Al ₂ O ₃ nanofluid natural convection in presence of thermal radiation. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 5708-5718	6.7	176
263	Three dimensional heat and mass transfer in a rotating system using nanofluid. <i>Powder Technology</i> , 2014 , 253, 789-796	5.2	175
262	Numerical investigation of magnetic nanofluid forced convective heat transfer in existence of variable magnetic field using two phase model. <i>Journal of Molecular Liquids</i> , 2015 , 212, 117-126	6	172
261	. <i>IEEE Nanotechnology Magazine</i> , 2015 , 14, 561-569	2.6	171
260	Effect of uniform suction on nanofluid flow and heat transfer over a cylinder. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2015 , 37, 1623-1633	2	168
259	Nanofluid turbulent convective flow in a circular duct with helical turbulators considering CuO nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 124, 980-989	4.9	168
258	Melting heat transfer influence on nanofluid flow inside a cavity in existence of magnetic field. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 114, 517-526	4.9	168
257	Free convection of ferrofluid in a cavity heated from below in the presence of an external magnetic field. <i>Powder Technology</i> , 2014 , 256, 490-498	5.2	166
256	Simulation of Ferrofluid Flow for Magnetic Drug Targeting Using the Lattice Boltzmann Method. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2015 , 70, 115-124	1.4	166

255	Electrohydrodynamic free convection heat transfer of a nanofluid in a semi-annulus enclosure with a sinusoidal wall. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016 , 69, 781-793	2.3	163
254	Micropolar fluid flow and heat transfer in a permeable channel using analytical method. <i>Journal of Molecular Liquids</i> , 2014 , 194, 30-36	6	162
253	Natural convection heat transfer in a cavity with sinusoidal wall filled with CuO/water nanofluid in presence of magnetic field. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014 , 45, 40-49	5.3	154
252	Effect of electric field on hydrothermal behavior of nanofluid in a complex geometry. <i>Journal of Molecular Liquids</i> , 2016 , 213, 153-161	6	146
251	Nanofluid flow and heat transfer due to a stretching cylinder in the presence of magnetic field. <i>Heat and Mass Transfer</i> , 2013 , 49, 427-436	2.2	146
250	Influence of CuO nanoparticles on heat transfer behavior of PCM in solidification process considering radiative source term. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 126, 1252-1264	4.9	146
249	CVFEM for magnetic nanofluid convective heat transfer in a porous curved enclosure. <i>European Physical Journal Plus</i> , 2016 , 131, 1	3.1	144
248	Two phase simulation of nanofluid flow and heat transfer using heatline analysis. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 47, 73-81	5.8	143
247	Magnetic nanofluid flow and convective heat transfer in a porous cavity considering Brownian motion effects. <i>Physics of Fluids</i> , 2018 , 30, 012003	4.4	142
246	Electrohydrodynamic Nanofluid Hydrothermal Treatment in an Enclosure with Sinusoidal Upper Wall. <i>Applied Sciences (Switzerland)</i> , 2015 , 5, 294-306	2.6	141
245	Lattice Boltzmann simulation of magnetohydrodynamic natural convection heat transfer of Al ₂ O ₃ /water nanofluid in a horizontal cylindrical enclosure with an inner triangular cylinder. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 80, 16-25	4.9	140
244	Impact of Lorentz forces on Fe ₃ O ₄ -water ferrofluid entropy and exergy treatment within a permeable semi annulus. <i>Journal of Cleaner Production</i> , 2019 , 221, 885-898	10.3	129
243	Application of LBM in simulation of natural convection in a nanofluid filled square cavity with curve boundaries. <i>Powder Technology</i> , 2013 , 247, 87-94	5.2	127
242	Nanofluid hydrothermal behavior in existence of Lorentz forces considering Joule heating effect. <i>Journal of Molecular Liquids</i> , 2016 , 224, 526-537	6	124
241	Numerical investigation for two phase modeling of nanofluid in a rotating system with permeable sheet. <i>Journal of Molecular Liquids</i> , 2014 , 194, 13-19	6	122
240	MHD free convection in an eccentric semi-annulus filled with nanofluid. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014 , 45, 1204-1216	5.3	120
239	Heat flux boundary condition for nanofluid filled enclosure in presence of magnetic field. <i>Journal of Molecular Liquids</i> , 2014 , 193, 174-184	6	118
238	Nanofluid heat transfer in a permeable enclosure in presence of variable magnetic field by means of CVFEM. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 114, 1169-1180	4.9	117

237	Numerical investigation of nanofluid spraying on an inclined rotating disk for cooling process. <i>Journal of Molecular Liquids</i> , 2015 , 211, 577-583	6	110
236	Analytical investigation of MHD nanofluid flow in non-parallel walls. <i>Journal of Molecular Liquids</i> , 2014 , 194, 251-259	6	110
235	Heat transfer improvement in a double pipe heat exchanger by means of perforated turbulators. <i>Energy Conversion and Management</i> , 2016 , 127, 112-123	10.6	110
234	Effect of magnetic field on Cu-water nanofluid heat transfer using GMDH-type neural network. <i>Neural Computing and Applications</i> , 2014 , 25, 171-178	4.8	109
233	Solidification inside a clean energy storage unit utilizing phase change material with copper oxide nanoparticles. <i>Journal of Cleaner Production</i> , 2020 , 245, 118888	10.3	109
232	Thermal management for free convection of nanofluid using two phase model. <i>Journal of Molecular Liquids</i> , 2014 , 194, 179-187	6	108
231	EFFECTS OF MAGNETOHYDRODYNAMICS ON PERISTALTIC FLOW OF JEFFREY FLUID IN A RECTANGULAR DUCT THROUGH A POROUS MEDIUM. <i>Journal of Porous Media</i> , 2014 , 17, 143-157	2.9	106
230	Influence of EFD viscosity on nanofluid forced convection in a cavity with sinusoidal wall. <i>Journal of Molecular Liquids</i> , 2017 , 232, 390-395	6	102
229	Nanofluid flow and heat transfer in an asymmetric porous channel with expanding or contracting wall. <i>Journal of Molecular Liquids</i> , 2014 , 195, 230-239	6	102
228	On simulation of nanofluid radiation and natural convection in an enclosure with elliptical cylinders. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 981-991	4.9	102
227	Numerical study of natural convection between a circular enclosure and a sinusoidal cylinder using control volume based finite element method. <i>International Journal of Thermal Sciences</i> , 2013 , 72, 147-158	4.1	100
226	Nanofluid flow inside a solar collector utilizing twisted tape considering exergy and entropy analysis. <i>Renewable Energy</i> , 2019 , 141, 246-258	8.1	99
225	Numerical approach for magnetic nanofluid flow in a porous cavity using CuO nanoparticles. <i>Materials and Design</i> , 2017 , 120, 382-393	8.1	98
224	Heat transfer enhancement in an air to water heat exchanger with discontinuous helical turbulators; experimental and numerical studies. <i>Energy</i> , 2016 , 116, 341-352	7.9	97
223	Effect of melting heat transfer on nanofluid flow in existence of magnetic field considering Buongiorno Model. <i>Chinese Journal of Physics</i> , 2017 , 55, 1115-1126	3.5	96
222	Homotopy perturbation method for three-dimensional problem of condensation film on inclined rotating disk. <i>Scientia Iranica</i> , 2012 , 19, 437-442	1.5	96
221	Influence of Induced Magnetic Field on Free Convection of Nanofluid Considering Koo-Kleinstreuer-Li (KKL) Correlation. <i>Applied Sciences (Switzerland)</i> , 2016 , 6, 324	2.6	96
220	Nanofluid heat transfer analysis in a microchannel heat sink (MCHS) under the effect of magnetic field by means of KKL model. <i>Powder Technology</i> , 2018 , 324, 36-47	5.2	95

219	Free convection of nanofluid filled enclosure using lattice Boltzmann method (LBM). <i>Applied Mathematics and Mechanics (English Edition)</i> , 2013 , 34, 833-846	3.2	94
218	Numerical analysis of discharging process acceleration in LHTESS by immersing innovative fin configuration using finite element method. <i>Applied Thermal Engineering</i> , 2016 , 107, 154-166	5.8	90
217	Nanoparticles favorable effects on performance of thermal storage units. <i>Journal of Molecular Liquids</i> , 2020 , 300, 112329	6	85
216	Numerical simulation of two phase unsteady nanofluid flow and heat transfer between parallel plates in presence of time dependent magnetic field. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015 , 46, 43-50	5.3	84
215	MHD natural convection in a nanofluid filled inclined enclosure with sinusoidal wall using CVFEM. <i>Neural Computing and Applications</i> , 2014 , 24, 873-882	4.8	79
214	Effect of thermal diffusion and heat-generation on MHD nanofluid flow past an oscillating vertical plate through porous medium. <i>Journal of Molecular Liquids</i> , 2018 , 257, 12-25	6	76
213	Convective flow of nanofluid inside a lid driven porous cavity using CVFEM. <i>Physica B: Condensed Matter</i> , 2017 , 521, 239-250	2.8	76
212	Numerical treatment for Carreau nanofluid flow over a porous nonlinear stretching surface. <i>Results in Physics</i> , 2018 , 8, 1185-1193	3.7	75
211	Nanofluid MHD natural convection through a porous complex shaped cavity considering thermal radiation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 1615-1632	2.3	74
210	Nanofluid flow and forced convection heat transfer due to Lorentz forces in a porous lid driven cubic enclosure with hot obstacle. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 338, 491-505	5.7	74
209	Effect of Lorentz forces on forced-convection nanofluid flow over a stretched surface. <i>Particuology</i> , 2016 , 26, 108-113	2.8	73
208	Simulation of turbulent flow of nanofluid due to existence of new effective turbulator involving entropy generation. <i>Journal of Molecular Liquids</i> , 2019 , 291, 111283	6	73
207	Transportation of MHD nanofluid free convection in a porous semi annulus using numerical approach. <i>Chemical Physics Letters</i> , 2017 , 669, 202-210	2.5	72
206	Influence of magnetic field on CuO/H ₂ O nanofluid flow considering Marangoni boundary layer. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 2748-2755	6.7	71
205	Numerical analysis of nanofluid transportation in porous media under the influence of external magnetic source. <i>Journal of Molecular Liquids</i> , 2017 , 233, 499-507	6	70
204	Transport of Magnetohydrodynamic nanofluid in a porous media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 520, 201-212	5.1	69
203	Free convection of Fe ₃ O ₄ -water nanofluid under the influence of an external magnetic source. <i>Journal of Molecular Liquids</i> , 2017 , 229, 530-540	6	69
202	Nanofluid heat transfer and entropy generation through a heat exchanger considering a new turbulator and CuO nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 134, 2295-2303	4.1	69

201	Nonlinear thermal radiation and cubic autocatalysis chemical reaction effects on the flow of stretched nanofluid under rotational oscillations. <i>Journal of Colloid and Interface Science</i> , 2017 , 505, 253-265	9.3	68
200	Lattice Boltzmann method simulation for CuO-water nanofluid flow in a porous enclosure with hot obstacle. <i>Journal of Molecular Liquids</i> , 2017 , 243, 249-256	6	68
199	Effects of heat transfer on peristaltic motion of Oldroyd fluid in the presence of inclined magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 372, 97-106	2.8	67
198	Magnetic source influence on nanofluid flow in porous medium considering shape factor effect. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 3071-3078	2.3	65
197	Influence of melting surface on MHD nanofluid flow by means of two phase model. <i>Chinese Journal of Physics</i> , 2017 , 55, 1352-1360	3.5	65
196	Entropy Analysis on Electro-Kinetically Modulated Peristaltic Propulsion of Magnetized Nanofluid Flow through a Microchannel. <i>Entropy</i> , 2017 , 19, 481	2.8	63
195	Numerical investigation of nanofluid transportation in a curved cavity in existence of magnetic source. <i>Chemical Physics Letters</i> , 2017 , 667, 307-316	2.5	63
194	Forced convection heat transfer in Fe ₃ O ₄ -ethylene glycol nanofluid under the influence of Coulomb force. <i>Journal of Molecular Liquids</i> , 2017 , 233, 203-210	6	62
193	Investigation of nanofluid entropy generation in a heat exchanger with helical twisted tapes. <i>Journal of Molecular Liquids</i> , 2018 , 266, 797-805	6	62
192	Numerical modeling for Fe ₃ O ₄ -water nanofluid flow in porous medium considering MFD viscosity. <i>Journal of Molecular Liquids</i> , 2017 , 242, 255-264	6	62
191	Magnetohydrodynamic CuO-Water Nanofluid in a Porous Complex-Shaped Enclosure. <i>Journal of Thermal Science and Engineering Applications</i> , 2017 , 9,	1.9	61
190	Heat transfer of Fe ₃ O ₄ -water nanofluid in a permeable medium with thermal radiation in existence of constant heat flux. <i>Chemical Engineering Science</i> , 2017 , 174, 326-336	4.4	61
189	Steady nanofluid flow between parallel plates considering thermophoresis and Brownian effects. <i>Journal of King Saud University - Science</i> , 2016 , 28, 380-389	3.6	60
188	Impact of electric field on nanofluid forced convection heat transfer with considering variable properties. <i>Journal of Molecular Liquids</i> , 2017 , 229, 566-573	6	60
187	Unsteady nanofluid flow and heat transfer in presence of magnetic field considering thermal radiation. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2015 , 37, 895-902	2	59
186	Nanofluid convective heat transfer intensification in a porous circular cylinder. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 120, 93-104	3.7	59
185	Forced convection in existence of Lorentz forces in a porous cavity with hot circular obstacle using nanofluid via Lattice Boltzmann method. <i>Journal of Molecular Liquids</i> , 2017 , 246, 103-111	6	58
184	Control volume finite element method for nanofluid MHD natural convective flow inside a sinusoidal annulus under the impact of thermal radiation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 338, 618-633	5.7	58

183	Irreversibility analysis of the three dimensional flow of carbon nanotubes due to nonlinear thermal radiation and quartic chemical reactions. <i>Journal of Molecular Liquids</i> , 2019 , 274, 379-392	6	58
182	Numerical simulation for forced convection flow of MHD CuO-H ₂ O nanofluid inside a cavity by means of LBM. <i>Journal of Molecular Liquids</i> , 2018 , 249, 941-948	6	57
181	The Influence of magnetic field on heat transfer of magnetic nanofluid in a sinusoidal double pipe heat exchanger. <i>Chemical Engineering Research and Design</i> , 2016 , 113, 112-124	5.5	57
180	Magnetic source impact on nanofluid heat transfer using CVFEM. <i>Neural Computing and Applications</i> , 2018 , 30, 1055-1064	4.8	56
179	Numerical investigation of MHD nanofluid free convective heat transfer in a porous tilted enclosure. <i>Engineering Computations</i> , 2017 , 34, 1939-1955	1.4	56
178	Investigation of Rotating MHD Viscous Flow and Heat Transfer between Stretching and Porous Surfaces Using Analytical Method. <i>Mathematical Problems in Engineering</i> , 2011 , 2011, 1-17	1.1	56
177	Effect of discontinuous helical turbulators on heat transfer characteristics of double pipe water to air heat exchanger. <i>Energy Conversion and Management</i> , 2016 , 118, 75-87	10.6	54
176	Entropy analysis of nanofluid convection in a heated porous microchannel under MHD field considering solid heat generation. <i>Powder Technology</i> , 2019 , 344, 914-925	5.2	54
175	Numerical investigation of forced convective heat transfer of Fe ₃ O ₄ -water nanofluid in the presence of external magnetic source. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 315, 831-845	5.7	53
174	Heat transfer enhancement of ferrofluid inside an 90°elbow channel by non-uniform magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 460, 302-311	2.8	53
173	High accuracy analysis for motion of a spherical particle in plane Couette fluid flow by Multi-step Differential Transformation Method. <i>Powder Technology</i> , 2014 , 260, 59-67	5.2	53
172	Numerical modeling of magnetohydrodynamic CuO/Water transportation inside a porous cavity considering shape factor effect. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 529, 705-714	5.1	51
171	Second law analysis for nanofluid turbulent flow inside a circular duct in presence of twisted tape turbulators. <i>Journal of Molecular Liquids</i> , 2018 , 263, 489-500	6	51
170	Non-uniform magnetic field effect on nanofluid hydrothermal treatment considering Brownian motion and thermophoresis effects. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016 , 38, 1171-1184	2	51
169	Experimental study on turbulent flow and heat transfer in an air to water heat exchanger using perforated circular-ring. <i>Experimental Thermal and Fluid Science</i> , 2016 , 70, 185-195	3	51
168	The influence of non-uniform magnetic field on heat transfer intensification of ferrofluid inside a T-junction. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018 , 123, 58-66	3.7	51
167	A novel Bayesian optimization for flow condensation enhancement using nanorefrigerant: A combined analytical and experimental study. <i>Chemical Engineering Science</i> , 2020 , 215, 115465	4.4	49
166	Macroscopic modeling for convection of Hybrid nanofluid with magnetic effects. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 534, 122136	3.3	48

165	CuO-water nanofluid flow and heat transfer in a heat exchanger tube with twisted tape turbulator. <i>Powder Technology</i> , 2018 , 336, 131-143	5.2	47
164	Magnetic nanofluid natural convection in the presence of thermal radiation considering variable viscosity. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	46
163	Radiative heat transfer study for flow of non-Newtonian nanofluid past a Riga plate with variable thickness. <i>Journal of Molecular Liquids</i> , 2017 , 248, 143-152	6	46
162	Thermal management of MHD nanofluid within the porous medium enclosed in a wavy shaped cavity with square obstacle in the presence of radiation heat source. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 139, 87-94	4.9	45
161	Entropy generation on the interaction of nanoparticles over a stretched surface with thermal radiation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 570, 368-376	5.1	45
160	Exergy loss analysis for nanofluid forced convection heat transfer in a pipe with modified turbulators. <i>Journal of Molecular Liquids</i> , 2018 , 262, 104-110	6	45
159	Study of Fe ₃ O ₄ -water nanofluid with convective heat transfer in the presence of magnetic source. <i>AEJ - Alexandria Engineering Journal</i> , 2018 , 57, 565-575	6.1	45
158	Influence of Lorentz forces on nanofluid flow in a porous cavity by means of non-Darcy model. <i>Engineering Computations</i> , 2017 , 34, 2651-2667	1.4	45
157	Numerical simulation for heat transfer intensification of nanofluid in a porous curved enclosure considering shape effect of Fe ₃ O ₄ nanoparticles. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018 , 124, 71-82	3.7	45
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- 21 Nanofluid Flow in a Permeable Media by Means of Semi Analytical Methods **2018**, 433-490
- 20 Nanofluid Flow Over a Stretching Surface **2018**, 555-597
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- 15 Nanofluid Forced and Mixed Convection Heat Transfer by Means of CVFEM **2019**, 127-161
- 14 Effect of Uniform Lorentz Forces on Nanofluid Flow Using CVFEM **2019**, 163-199
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- 6 Nanofluid Convective Heat Transfer Considering Magnetic Field Dependent (MFD) Viscosity by Means of CVFEM **2019**, 707-749
- 5 Simulation of Vorticity Stream Function Formulation by Means of CVFEM **2019**, 15-32
- 4 Various Application of Nanofluid for Heat Transfer Augmentation **2019**, 33-71

- 3 Single-phase Model for Nanofluid Free Convection Heat Transfer by Means of CVFEM **2019**, 73-97
- 2 Buongiorno Model for Nanofluid Treatment Using CVFEM **2019**, 99-126
- 1 Thermal Nonequilibrium Model for Nanofluid Flow in a Porous Enclosure by Means of CVFEM **2019**, 547-580