

M M Rashidi

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342
papers

13,461
citations

64
h-index

101
g-index

374
ext. papers

15,074
ext. citations

3.1
avg, IF

7.43
L-index

#	Paper	IF	Citations
342	Entropy generation in steady MHD flow due to a rotating porous disk in a nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 62, 515-525	4.9	515
341	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
340	Effect of non-uniform magnetic field on forced convection heat transfer of Fe ₃ O ₄ /water nanofluid. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 294, 299-312	5.7	277
339	Buoyancy effect on MHD flow of nanofluid over a stretching sheet in the presence of thermal radiation. <i>Journal of Molecular Liquids</i> , 2014 , 198, 234-238	6	272
338	Effects of thermo-diffusion and thermal radiation on Williamson nanofluid over a porous shrinking/stretching sheet. <i>Journal of Molecular Liquids</i> , 2016 , 221, 567-573	6	241
337	Free convection of magnetic nanofluid considering MFD viscosity effect. <i>Journal of Molecular Liquids</i> , 2016 , 218, 393-399	6	220
336	Investigation of entropy generation in MHD and slip flow over a rotating porous disk with variable properties. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 70, 892-917	4.9	219
335	Magnetic field effect on unsteady nanofluid flow and heat transfer using Buongiorno model. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 416, 164-173	2.8	213
334	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
333	Entropy analysis for an unsteady MHD flow past a stretching permeable surface in nano-fluid. <i>Powder Technology</i> , 2014 , 267, 256-267	5.2	190
332	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
331	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
330	Analytical modeling of entropy generation for Casson nano-fluid flow induced by a stretching surface. <i>Advanced Powder Technology</i> , 2015 , 26, 542-552	4.6	168
329	Homotopy simulation of nanofluid dynamics from a non-linearly stretching isothermal permeable sheet with transpiration. <i>Meccanica</i> , 2014 , 49, 469-482	2.1	164
328	Parametric analysis and optimization of entropy generation in unsteady MHD flow over a stretching rotating disk using artificial neural network and particle swarm optimization algorithm. <i>Energy</i> , 2013 , 55, 497-510	7.9	160
327	Magnetic field and internal heat generation effects on the free convection in a rectangular cavity filled with a porous medium saturated with Cu/water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 878-889	4.9	152
326	Analytic approximate solutions for heat transfer of a micropolar fluid through a porous medium with radiation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011 , 16, 1874-1889	3.7	150

325	Unsteady MHD free convective flow past a permeable stretching vertical surface in a nano-fluid. <i>International Journal of Thermal Sciences</i> , 2015 , 87, 136-145	4.1	149
324	Numerical and analytical solutions for Falkner-Skan flow of MHD Oldroyd-B fluid. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2014 , 24, 390-401	4.5	144
323	Free convective heat and mass transfer for MHD fluid flow over a permeable vertical stretching sheet in the presence of the radiation and buoyancy effects. <i>Ain Shams Engineering Journal</i> , 2014 , 5, 901-912	4.4	143
322	Entropy Generation on MHD Casson Nanofluid Flow over a Porous Stretching/Shrinking Surface. <i>Entropy</i> , 2016 , 18, 123	2.8	136
321	Non-uniform heat source/sink and Soret effects on MHD non-Darcian convective flow past a stretching sheet in a micropolar fluid with radiation. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 93, 674-682	4.9	131
320	Numerical simulation of natural convection of the nanofluid in heat exchangers using a Buongiorno model. <i>Applied Mathematics and Computation</i> , 2015 , 254, 183-203	2.7	130
319	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
318	Ferrofluid heat transfer treatment in the presence of variable magnetic field. <i>European Physical Journal Plus</i> , 2015 , 130, 1	3.1	117
317	Two-phase mixture modeling of mixed convection of nanofluids in a square cavity with internal and external heating. <i>Powder Technology</i> , 2015 , 275, 304-321	5.2	114
316	Approximate solutions for the Burger and regularized long wave equations by means of the homotopy analysis method. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009 , 14, 708-717	3.7	114
315	Numerical simulation of natural convection heat transfer of a nanofluid in an L-shaped enclosure with a heating obstacle. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 72, 70-84	5.3	109
314	MHD convective heat transfer of Ag-MgO/water hybrid nanofluid in a channel with active heaters and coolers. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 137, 714-726	4.9	107
313	Analytic approximate solutions for steady flow over a rotating disk in porous medium with heat transfer by homotopy analysis method. <i>Computers and Fluids</i> , 2012 , 54, 1-9	2.8	107
312	Influence of a uniform transverse magnetic field on the thermo-hydrodynamic stability in water-based nanofluids with metallic nanoparticles using the generalized Buongiorno's mathematical model. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	106
311	Simultaneous effects of partial slip and thermal-diffusion and diffusion-thermo on steady MHD convective flow due to a rotating disk. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011 , 16, 4303-4317	3.7	103
310	Entropy analysis of convective MHD flow of third grade non-Newtonian fluid over a stretching sheet. <i>Ain Shams Engineering Journal</i> , 2017 , 8, 77-85	4.4	102
309	Entropy Generation in a Circular Tube Heat Exchanger Using Nanofluids: Effects of Different Modeling Approaches. <i>Heat Transfer Engineering</i> , 2017 , 38, 853-866	1.7	102
308	Comparative numerical study of single and two-phase models of nanofluid heat transfer in wavy channel. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2014 , 35, 831-848	3.2	100

307	Mixed Convective Heat Transfer for MHD Viscoelastic Fluid Flow over a Porous Wedge with Thermal Radiation. <i>Advances in Mechanical Engineering</i> , 2014 , 6, 735939	1.2	100
306	New analytical method for gas dynamics equation arising in shock fronts. <i>Computer Physics Communications</i> , 2014 , 185, 1947-1954	4.2	99
305	Numerical investigation of magnetic field effect on mixed convection heat transfer of nanofluid in a channel with sinusoidal walls. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 401, 159-168	2.8	98
304	Numerical investigation of water-alumina nanofluid natural convection heat transfer and entropy generation in a baffled L-shaped cavity. <i>Journal of Molecular Liquids</i> , 2016 , 223, 243-251	6	96
303	Forced convection of nanofluids in an extended surfaces channel using lattice Boltzmann method. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 117, 1291-1303	4.9	96
302	MHD stagnation point flow heat and mass transfer of nanofluids in porous medium with radiation, viscous dissipation and chemical reaction. <i>Advanced Powder Technology</i> , 2016 , 27, 742-749	4.6	93
301	Entropy Generation on MHD Eyring-Bowell Nanofluid through a Permeable Stretching Surface. <i>Entropy</i> , 2016 , 18, 224	2.8	93
300	Parametric analysis and optimization of regenerative Clausius and organic Rankine cycles with two feedwater heaters using artificial bees colony and artificial neural network. <i>Energy</i> , 2011 , 36, 5728-5740	7.9	89
299	An optimal analysis of radiated nanomaterial flow with viscous dissipation and heat source. <i>Microsystem Technologies</i> , 2019 , 25, 683-689	1.7	88
298	Analytical solution of fractional Navier-Stokes equation by using modified Laplace decomposition method. <i>Ain Shams Engineering Journal</i> , 2014 , 5, 569-574	4.4	88
297	Two phase simulation of natural convection and mixed convection of the nanofluid in a square cavity. <i>Powder Technology</i> , 2015 , 275, 239-256	5.2	88
296	The modified differential transform method for solving MHD boundary-layer equations. <i>Computer Physics Communications</i> , 2009 , 180, 2210-2217	4.2	88
295	A mathematical model of MHD nanofluid flow having gyrotactic microorganisms with thermal radiation and chemical reaction effects. <i>Neural Computing and Applications</i> , 2018 , 30, 1237-1249	4.8	87
294	Nature-inspired computing approach for solving non-linear singular Emden-Bowler problem arising in electromagnetic theory. <i>Connection Science</i> , 2015 , 27, 377-396	2.8	87
293	Study of a third grade non-Newtonian fluid flow between two parallel plates using the multi-step differential transform method. <i>Computers and Mathematics With Applications</i> , 2011 , 62, 2871-2891	2.7	85
292	Analytic Approximate Solutions for Unsteady Two-Dimensional and Axisymmetric Squeezing Flows between Parallel Plates. <i>Mathematical Problems in Engineering</i> , 2008 , 2008, 1-13	1.1	83
291	Analysis of a combined power and ejector-refrigeration cycle using low temperature heat. <i>Energy Conversion and Management</i> , 2013 , 65, 381-391	10.6	80
290	Numerical Simulation of Entropy Generation with Thermal Radiation on MHD Carreau Nanofluid towards a Shrinking Sheet. <i>Entropy</i> , 2016 , 18, 200	2.8	80

289	Study of nanofluid forced convection heat transfer in a bent channel by means of lattice Boltzmann method. <i>Physics of Fluids</i> , 2018 , 30, 032001	4.4	77
288	A STUDY OF NON-NEWTONIAN FLOW AND HEAT TRANSFER OVER A NON-ISOTHERMAL WEDGE USING THE HOMOTOPY ANALYSIS METHOD. <i>Chemical Engineering Communications</i> , 2012 , 199, 231-256	2.2	76
287	A comprehensive review of last experimental studies on thermal conductivity of nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 122, 863-884	4.1	75
286	New analytical method for solving Burgers' and nonlinear heat transfer equations and comparison with HAM. <i>Computer Physics Communications</i> , 2009 , 180, 1539-1544	4.2	75
285	Analytic approximate solutions for unsteady boundary-layer flow and heat transfer due to a stretching sheet by homotopy analysis method. <i>Nonlinear Analysis: Modelling and Control</i> , 2010 , 15, 83-95	1.3	73
284	Analytical method for solving steady MHD convective and slip flow due to a rotating disk with viscous dissipation and Ohmic heating. <i>Engineering Computations</i> , 2012 , 29, 562-579	1.4	72
283	Lie Group Solution for Free Convective Flow of a Nanofluid Past a Chemically Reacting Horizontal Plate in a Porous Media. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-21	1.1	71
282	A robust numerical method for solving stagnation point flow over a permeable shrinking sheet under the influence of MHD. <i>Applied Mathematics and Computation</i> , 2018 , 316, 381-389	2.7	70
281	Numerical study of heat transfer performance of nanofluids in a heat exchanger. <i>Applied Thermal Engineering</i> , 2016 , 105, 436-455	5.8	70
280	MHD flow and heat transfer characteristics of Williamson nanofluid over a stretching sheet with variable thickness and variable thermal conductivity. <i>Transactions of A Razmadze Mathematical Institute</i> , 2017 , 171, 195-211		67
279	Free convective heat transfer with hall effects, heat absorption and chemical reaction over an accelerated moving plate in a rotating system. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 422, 112-123	2.8	65
278	The modified differential transform method for investigating nano boundary-layers over stretching surfaces. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2011 , 21, 864-883	4.5	63
277	Purely analytic approximate solutions for steady three-dimensional problem of condensation film on inclined rotating disk by homotopy analysis method. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 2346-2356	2.1	63
276	Numerical study of natural convection of a water/alumina nanofluid in inclined C-shaped enclosures under the effect of magnetic field. <i>Advanced Powder Technology</i> , 2016 , 27, 661-672	4.6	62
275	Double-diffusive radiative magnetic mixed convective slip flow with Biot and Richardson number effects. <i>Journal of Engineering Thermophysics</i> , 2014 , 23, 79-97	1.4	62
274	Analysis of Entropy Generation in the Flow of Peristaltic Nanofluids in Channels With Compliant Walls. <i>Entropy</i> , 2016 , 18, 90	2.8	62
273	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
272	Numerical study of natural convection heat transfer in a heat exchanger filled with nanofluids. <i>Energy</i> , 2016 , 109, 664-678	7.9	60

271	Magnetohydrodynamic biorheological transport phenomena in a porous medium: A simulation of magnetic blood flow control and filtration. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011 , 27, 805-821	2.6	60
270	A new analytical study of MHD stagnation-point flow in porous media with heat transfer. <i>Computers and Fluids</i> , 2011 , 40, 172-178	2.8	60
269	A novel analytical solution of mixed convection about an inclined flat plate embedded in a porous medium using the DTM-Padé. <i>International Journal of Thermal Sciences</i> , 2010 , 49, 2405-2412	4.1	59
268	Entropy Generation on MHD Blood Flow of Nanofluid Due to Peristaltic Waves. <i>Entropy</i> , 2016 , 18, 117	2.8	59
267	Semi-computational simulation of magneto-hemodynamic flow in a semi-porous channel using optimal homotopy and differential transform methods. <i>Computers in Biology and Medicine</i> , 2013 , 43, 1142-53	7	58
266	A reliable treatment of a homotopy analysis method for two-dimensional viscous flow in a rectangular domain bounded by two moving porous walls. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 1502-1512	2.1	56
265	Influences of an effective Prandtl number model on nano boundary layer flow of $\text{Al}_2\text{O}_3\text{-H}_2\text{O}$ and $\text{Al}_2\text{O}_3\text{-H}_2\text{O}$ over a vertical stretching sheet. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 98, 616-623	4.9	56
264	Numerical investigation of MHD effects on nanofluid heat transfer in a baffled U-shaped enclosure using lattice Boltzmann method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 3197-3213	4.1	55
263	Experimental study of nanofluid flow and heat transfer over microscale backward- and forward-facing steps. <i>Experimental Thermal and Fluid Science</i> , 2015 , 65, 13-21	3	55
262	Numerical Study of Entropy Generation with Nonlinear Thermal Radiation on Magnetohydrodynamics non-Newtonian Nanofluid Through a Porous Shrinking Sheet. <i>Journal of Magnetism</i> , 2016 , 21, 468-475	1.9	55
261	Unsteady convective heat and mass transfer in pseudoplastic nanofluid over a stretching wall. <i>Advanced Powder Technology</i> , 2015 , 26, 1319-1326	4.6	52
260	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
259	Study of pulsatile flow in a porous annulus with the homotopy analysis method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2012 , 22, 971-989	4.5	51
258	Explicit analytical solutions of the generalized Burger and Burger-Bisher equations by homotopy perturbation method. <i>Numerical Methods for Partial Differential Equations</i> , 2009 , 25, 409-417	2.5	50
257	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
256	Three dimensional peristaltic flow of hyperbolic tangent fluid in non-uniform channel having flexible walls. <i>AEJ - Alexandria Engineering Journal</i> , 2016 , 55, 653-662	6.1	49
255	An analytic solution of micropolar flow in a porous channel with mass injection using homotopy analysis method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2014 , 24, 419-437	4.5	48
254	Casson Fluid Flow near the Stagnation Point over a Stretching Sheet with Variable Thickness and Radiation. <i>Journal of Applied Fluid Mechanics</i> , 2016 , 9, 1115-1022	1.5	48

253	Entropy Generation on Nanofluid Flow through a Horizontal Riga Plate. <i>Entropy</i> , 2016 , 18, 223	2.8	48
252	Analytical solution of three-dimensional Navier-Stokes equations for the flow near an infinite rotating disk. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009 , 14, 2999-3006	3.7	47
251	Simulation of nanofluid natural convection in a U-shaped cavity equipped by a heating obstacle: Effect of cavity's aspect ratio. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018 , 93, 263-276	5.3	46
250	COMPARATIVE NUMERICAL STUDY OF SINGLE-PHASE AND TWO-PHASE MODELS FOR BIO-NANOFUID TRANSPORT PHENOMENA. <i>Journal of Mechanics in Medicine and Biology</i> , 2014 , 14, 1450011	6.7	46
249	DTM- Pad Modeling of Natural Convective Boundary Layer Flow of a Nanofluid Past a Vertical Surface. <i>CIM Journal</i> , 2011 , 4, 13-24	0.2	46
248	Analytic Approximate Solutions for MHD Boundary-Layer Viscoelastic Fluid Flow over Continuously Moving Stretching Surface by Homotopy Analysis Method with Two Auxiliary Parameters. <i>Journal of Applied Mathematics</i> , 2012 , 2012, 1-19	1.1	46
247	APPLICATION OF DRUG DELIVERY IN MAGNETOHYDRODYNAMICS PERISTALTIC BLOOD FLOW OF NANOFUID IN A NON-UNIFORM CHANNEL. <i>Journal of Mechanics in Medicine and Biology</i> , 2016 , 16, 1650052	0.7	45
246	Entropy generation as a practical tool of optimisation for non-Newtonian nanofluid flow through a permeable stretching surface using SLM. <i>Journal of Computational Design and Engineering</i> , 2017 , 4, 21-28	4.6	45
245	GROUP THEORY AND DIFFERENTIAL TRANSFORM ANALYSIS OF MIXED CONVECTIVE HEAT AND MASS TRANSFER FROM A HORIZONTAL SURFACE WITH CHEMICAL REACTION EFFECTS. <i>Chemical Engineering Communications</i> , 2012 , 199, 1012-1043	2.2	45
244	Series solutions for unsteady laminar MHD flow near forward stagnation point of an impulsively rotating and translating sphere in presence of buoyancy forces. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 1159-1169	2.1	44
243	Approximate solution of two-term fractional-order diffusion, wave-diffusion, and telegraph models arising in mathematical physics using optimal homotopy asymptotic method. <i>Waves in Random and Complex Media</i> , 2016 , 26, 365-382	1.9	42
242	Application of Multi-Step Differential Transform Method on Flow of a Second-Grade Fluid over a Stretching or Shrinking Sheet. <i>American Journal of Computational Mathematics</i> , 2011 , 01, 119-128	0.8	42
241	A study on heat transfer in a second-grade fluid through a porous medium with the modified differential transform method. <i>Heat Transfer - Asian Research</i> , 2013 , 42, 31-45	2.8	41
240	Combine effects of Magnetohydrodynamics (MHD) and partial slip on peristaltic Blood flow of Ree-Eyring fluid with wall properties 2016 , 19, 1497-1502		41
239	Experimental and numerical investigation of the effective electrical conductivity of nitrogen-doped graphene nanofluids. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	39
238	Analysis of heat transfer due to stretching cylinder with partial slip and prescribed heat flux: A Chebyshev Spectral Newton Iterative Scheme. <i>AEJ - Alexandria Engineering Journal</i> , 2015 , 54, 1029-1036	6.1	39
237	Analytical Modelling of Three-Dimensional Squeezing Nanofluid Flow in a Rotating Channel on a Lower Stretching Porous Wall. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-14	1.1	39
236	Homotopy perturbation study of nonlinear vibration of Von Karman rectangular plates. <i>Computers and Structures</i> , 2012 , 106-107, 46-55	4.5	39

235	Analysis of Stokes' Second Problem for Nanofluids Using Modern Approach of Atangana-Baleanu Fractional Derivative. <i>Journal of Nanofluids</i> , 2018 , 7, 738-747	2.2	39
234	HOMOTOPY ANALYSIS OF TRANSIENT MAGNETO-BIO-FLUID DYNAMICS OF MICROPOLAR SQUEEZE FILM IN A POROUS MEDIUM: A MODEL FOR MAGNETO-BIO-RHEOLOGICAL LUBRICATION. <i>Journal of Mechanics in Medicine and Biology</i> , 2012 , 12, 1250051	0.7	38
233	Numerical analysis of turbulent/transitional natural convection in trapezoidal enclosures. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017 , 27, 2902-2923	4.5	37
232	Performance evaluation of an irreversible Miller cycle comparing FTT (finite-time thermodynamics) analysis and ANN (artificial neural network) prediction. <i>Energy</i> , 2016 , 94, 100-109	7.9	37
231	VIM solution of squeezing MHD nanofluid flow in a rotating channel with lower stretching porous surface. <i>Advanced Powder Technology</i> , 2016 , 27, 171-178	4.6	36
230	Study of heat and mass transfer with Joule heating on magnetohydrodynamic (MHD) peristaltic blood flow under the influence of Hall effect. <i>Propulsion and Power Research</i> , 2017 , 6, 177-185	3.6	36
229	Effect of solid surface structure on the condensation flow of Argon in rough nanochannels with different roughness geometries using molecular dynamics simulation. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 117, 104741	5.8	36
228	Numerical approach to boundary layer stagnation-point flow past a stretching/shrinking sheet. <i>Journal of Molecular Liquids</i> , 2016 , 221, 860-866	6	35
227	Numerical Simulation of Entropy Generation on MHD Nanofluid Towards a Stagnation Point Flow Over a Stretching Surface. <i>International Journal of Applied and Computational Mathematics</i> , 2017 , 3, 2275-2289	1.3	35
226	The homotopy analysis method for explicit analytical solutions of JaulentMiodek equations. <i>Numerical Methods for Partial Differential Equations</i> , 2009 , 25, 430-439	2.5	35
225	Analysis and optimization of a transcritical power cycle with regenerator using artificial neural networks and genetic algorithms. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2011 , 225, 701-717	1.6	35
224	Conceptual analysis framework development to understand barriers of nanofluid commercialization. <i>Nano Energy</i> , 2021 , 92, 106736	17.1	35
223	Entropy Generation Analysis for Stagnation Point Flow in a Porous Medium over a Permeable Stretching Surface. <i>Journal of Applied Fluid Mechanics</i> , 2015 , 8, 753-765	1.5	35
222	MHD forced convection of MWCNT/Fe ₃ O ₄ /water hybrid nanofluid in a partially heated U-shaped channel using LBM. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 136, 1723-1735	4.1	35
221	Using Differential Transform Method and Padé Approximant for Solving MHD Flow in a Laminar Liquid Film from a Horizontal Stretching Surface. <i>Mathematical Problems in Engineering</i> , 2010 , 2010, 1-14	1.1	34
220	Thermodynamic analysis of the ejector refrigeration cycle using the artificial neural network. <i>Energy</i> , 2017 , 129, 201-215	7.9	33
219	THE MODIFIED DIFFERENTIAL TRANSFORM METHOD FOR SOLVING OFF-CENTERED STAGNATION FLOW TOWARD A ROTATING DISC. <i>International Journal of Computational Methods</i> , 2010 , 07, 655-670	1.1	31
218	Effects of thermal radiation and electromagnetohydrodynamics on viscous nanofluid through a Riga plate. <i>Multidiscipline Modeling in Materials and Structures</i> , 2016 , 12, 605-618	2.2	31

217	Effect of Al ₂ O ₃ /water nanofluid on performance of parallel flow heat exchangers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 625-643	4.1	31
216	A study of heat and mass transfer on magnetohydrodynamic (MHD) flow of nanoparticles. <i>Propulsion and Power Research</i> , 2018 , 7, 72-77	3.6	29
215	Two phase flow simulation of conjugate natural convection of the nanofluid in a partitioned heat exchanger containing several conducting obstacles. <i>International Journal of Mechanical Sciences</i> , 2017 , 130, 282-306	5.5	28
214	A new and efficient mechanism for spark ignition engines. <i>Energy Conversion and Management</i> , 2015 , 96, 418-429	10.6	28
213	Numerical simulation of flow over a square cylinder with upstream and downstream circular bar using lattice Boltzmann method. <i>International Journal of Modern Physics C</i> , 2018 , 29, 1850030	1.1	28
212	Numerical simulation of Fluid flow over a shrinking porous sheet by Successive linearization method. <i>AEJ - Alexandria Engineering Journal</i> , 2016 , 55, 51-56	6.1	28
211	Gegenbauer wavelets collocation-based scheme to explore the solution of free bio-convection of nanofluid in 3D nearby stagnation point. <i>Neural Computing and Applications</i> , 2019 , 31, 8003-8019	4.8	28
210	Entropy Generation with Nonlinear Thermal Radiation in MHD Boundary Layer Flow Over a Permeable Shrinking/Stretching Sheet: Numerical Solution. <i>Journal of Nanofluids</i> , 2016 , 5, 543-548	2.2	28
209	Modified cubic B-spline differential quadrature method for numerical solution of three-dimensional coupled viscous Burger equation. <i>Modern Physics Letters B</i> , 2016 , 30, 1650110	1.6	28
208	Effect of hot obstacle position on natural convection heat transfer of MWCNTs-water nanofluid in U-shaped enclosure using lattice Boltzmann method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 223-250	4.5	28
207	Heat transfer analysis due to an unsteady stretching/shrinking cylinder with partial slip condition and suction. <i>Ain Shams Engineering Journal</i> , 2015 , 6, 939-945	4.4	27
206	Homotopy simulation of axisymmetric laminar mixed convection nanofluid boundary layer flow over a vertical cylinder. <i>Theoretical and Applied Mechanics</i> , 2012 , 39, 365-390	0.4	27
205	A hybrid computational approach for Jeffery-Hamel flow in non-parallel walls. <i>Neural Computing and Applications</i> , 2019 , 31, 2407-2413	4.8	26
204	Conjugate-mixed convection heat transfer in a two-sided lid-driven cavity filled with nanofluid using Manninen's two phase model. <i>International Journal of Mechanical Sciences</i> , 2017 , 131-132, 1026-1048	5.5	25
203	Generalized Magnetic Field Effects in Burgers' Nanofluid Model. <i>PLoS ONE</i> , 2017 , 12, e0168923	3.7	25
202	A New Numerical Simulation of MHD Stagnation-Point Flow Over a Permeable Stretching/Shrinking Sheet in Porous Media with Heat Transfer 2017 , 41, 779-785		24
201	An experimental study of flow patterns pertinent to waxy crude oil-water two-phase flows. <i>Chemical Engineering Science</i> , 2017 , 164, 313-332	4.4	24
200	Functionalization and exfoliation of graphite into mono layer graphene for improved heat dissipation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 71, 480-493	5.3	24

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