M M Rashidi

List of Publications by Year
in descending order

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Version: 2024-02-01

366 papers	17,084 citations	10986 71 h-index	22832 112 g-index
375 all docs	375 docs citations	375 times ranked	4902 citing authors

#	Article	IF	Citations
1	Entropy generation in steady MHD flow due to a rotating porous disk in a nanofluid. International Journal of Heat and Mass Transfer, 2013, 62, 515-525.	4.8	621
2	Forced convection heat transfer in a semi annulus under the influence of a variable magnetic field. International Journal of Heat and Mass Transfer, 2016, 92, 339-348.	4.8	365
3	Buoyancy effect on MHD flow of nanofluid over a stretching sheet in the presence of thermal radiation. Journal of Molecular Liquids, 2014, 198, 234-238.	4.9	332
4	Effect of non-uniform magnetic field on forced convection heat transfer of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si32.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mstyle mathvariant="normal"><mml:mi>Fe</mml:mi></mml:mstyle></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:ms mathvariant="normal"><mml:mi>O</mml:mi></mml:mstyle></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:ms nanofluid. Computer Methods in Applied Mechanics and Engineering, 2015, 294, 299-312.	6.6	305
5	Effects of thermo-diffusion and thermal radiation on Williamson nanofluid over a porous shrinking/stretching sheet. Journal of Molecular Liquids, 2016, 221, 567-573.	4.9	282
6	Investigation of entropy generation in MHD and slip flow over a rotating porous disk with variable properties. International Journal of Heat and Mass Transfer, 2014, 70, 892-917.	4.8	262
7	Free convection of magnetic nanofluid considering MFD viscosity effect. Journal of Molecular Liquids, 2016, 218, 393-399.	4.9	251
8	Magnetic field effect on unsteady nanofluid flow and heat transfer using Buongiorno model. Journal of Magnetism and Magnetic Materials, 2016, 416, 164-173.	2.3	240
9	Entropy analysis for an unsteady MHD flow past a stretching permeable surface in nano-fluid. Powder Technology, 2014, 267, 256-267.	4.2	225
10	Effect of space dependent magnetic field on free convection of Fe3O4â€“water nanofluid. Journal of the Taiwan Institute of Chemical Engineers, 2015, 56, 6-15.	5.3	225
11	Analytical modeling of entropy generation for Casson nano-fluid flow induced by a stretching surface. Advanced Powder Technology, 2015, 26, 542-552.	4.1	217
12	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. Ain Shams Engineering Journal, 2014, 5, 901-912.	6.1	207
13	Ferrofluid flow and heat transfer in a semi annulus enclosure in the presence of magnetic source considering thermal radiation. Journal of the Taiwan Institute of Chemical Engineers, 2015, 47, 6-17.	5.3	207
14	Numerical investigation of magnetic nanofluid forced convective heat transfer in existence of variable magnetic field using two phase model. Journal of Molecular Liquids, 2015, 212, 117-126.	4.9	192
15	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. Energy, 2013, 55, 497-510.	8.8	190
16	Analytic approximate solutions for heat transfer of a micropolar fluid through a porous medium with radiation. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 1874-1889.	3.3	188
17	Homotopy simulation of nanofluid dynamics from a non-linearly stretching isothermal permeable sheet with transpiration. Meccanica, 2014, 49, 469-482.	2.0	185
18	Magnetic field and internal heat generation effects on the free convection in a rectangular cavity filled with a porous medium saturated with Cuâ€“water nanofluid. International Journal of Heat and Mass Transfer, 2017, 104, 878-889.	4.8	185

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19	Entropy Generation on MHD Casson Nanofluid Flow over a Porous Stretching/Shrinking Surface. Entropy, 2016, 18, 123.	2.2	173
20	Unsteady MHD free convective flow past a permeable stretching vertical surface in a nano-fluid. International Journal of Thermal Sciences, 2015, 87, 136-145.	4.9	168
21	Non-uniform heat source/sink and Soret effects on MHD non-Darcian convective flow past a stretching sheet in a micropolar fluid with radiation. International Journal of Heat and Mass Transfer, 2016, 93, 674-682.	4.8	162
22	MHD convective heat transfer of Ag-MgO/water hybrid nanofluid in a channel with active heaters and coolers. International Journal of Heat and Mass Transfer, 2019, 137, 714-726.	4.8	159
23	Numerical study of MHD nanofluid natural convection in a baffled U-shaped enclosure. International Journal of Heat and Mass Transfer, 2019, 130, 123-134.	4.8	159
24	Numerical and analytical solutions for Falkner-Skan flow of MHD Oldroyd-B fluid. International Journal of Numerical Methods for Heat and Fluid Flow, 2014, 24, 390-401.	2.8	153
25	Numerical simulation of natural convection of the nanofluid in heat exchangers using a Buongiorno model. Applied Mathematics and Computation, 2015, 254, 183-203.	2.2	153
26	Numerical simulation of natural convection heat transfer of a nanofluid in an L-shaped enclosure with a heating obstacle. Journal of the Taiwan Institute of Chemical Engineers, 2017, 72, 70-84.	5.3	140
27	Approximate solutions for the Burger and regularized long wave equations by means of the homotopy analysis method. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 708-717.	3.3	136
28	Ferrofluid heat transfer treatment in the presence of variable magnetic field. European Physical Journal Plus, 2015, 130, 1.	2.6	134
29	New analytical method for gas dynamics equation arising in shock fronts. Computer Physics Communications, 2014, 185, 1947-1954.	7.5	133
30	Two-phase mixture modeling of mixed convection of nanofluids in a square cavity with internal and external heating. Powder Technology, 2015, 275, 304-321.	4.2	132
31	Influence of a uniform transverse magnetic field on the thermo-hydrodynamic stability in water-based nanofluids with metallic nanoparticles using the generalized Buongiornoâ€™s mathematical model. European Physical Journal Plus, 2018, 133, 1.	2.6	131
32	Analytic approximate solutions for steady flow over a rotating disk in porous medium with heat transfer by homotopy analysis method. Computers and Fluids, 2012, 54, 1-9.	2.5	128
33	Numerical investigation of magnetic field effect on mixed convection heat transfer of nanofluid in a channel with sinusoidal walls. Journal of Magnetism and Magnetic Materials, 2016, 401, 159-168.	2.3	128
34	Entropy analysis of convective MHD flow of third grade non-Newtonian fluid over a stretching sheet. Ain Shams Engineering Journal, 2017, 8, 77-85.	6.1	127
35	Mixed Convective Heat Transfer for MHD Viscoelastic Fluid Flow over a Porous Wedge with Thermal Radiation. Advances in Mechanical Engineering, 2014, 6, 735939.	1.6	126
36	Comparative numerical study of single and two-phase models of nanofluid heat transfer in wavy channel. Applied Mathematics and Mechanics (English Edition), 2014, 35, 831-848.	3.6	124

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37	Simultaneous effects of partial slip and thermal-diffusion and diffusion-thermo on steady MHD convective flow due to a rotating disk. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 4303-4317.	3.3	123
38	Numerical investigation of water-alumina nanofluid natural convection heat transfer and entropy generation in a baffled L-shaped cavity. Journal of Molecular Liquids, 2016, 223, 243-251.	4.9	123
39	MHD stagnation point flow heat and mass transfer of nanofluids in porous medium with radiation, viscous dissipation and chemical reaction. Advanced Powder Technology, 2016, 27, 742-749.	4.1	123
40	Entropy Generation in a Circular Tube Heat Exchanger Using Nanofluids: Effects of Different Modeling Approaches. Heat Transfer Engineering, 2017, 38, 853-866.	1.9	120
41	Analytical solution of fractional Navierâ€“Stokes equation by using modified Laplace decomposition method. Ain Shams Engineering Journal, 2014, 5, 569-574.	6.1	116
42	Entropy Generation on MHD Eyringâ€“Powell Nanofluid through a Permeable Stretching Surface. Entropy, 2016, 18, 224.	2.2	115
43	A mathematical model of MHD nanofluid flow having gyrotactic microorganisms with thermal radiation and chemical reaction effects. Neural Computing and Applications, 2018, 30, 1237-1249.	5.6	114
44	Forced convection of nanofluids in an extended surfaces channel using lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2018, 117, 1291-1303.	4.8	114
45	Study of a third grade non-Newtonian fluid flow between two parallel plates using the multi-step differential transform method. Computers and Mathematics With Applications, 2011, 62, 2871-2891.	2.7	112
46	The modified differential transform method for solving MHD boundary-layer equations. Computer Physics Communications, 2009, 180, 2210-2217.	7.5	111
47	Conceptual analysis framework development to understand barriers of nanofluid commercialization. Nano Energy, 2022, 92, 106736.	16.0	106
48	Two phase simulation of natural convection and mixed convection of the nanofluid in a square cavity. Powder Technology, 2015, 275, 239-256.	4.2	102
49	MHD flow and heat transfer characteristics of Williamson nanofluid over a stretching sheet with variable thickness and variable thermal conductivity. Transactions of A Razmadze Mathematical Institute, 2017, 171, 195-211.	0.7	102
50	Analytic Approximate Solutions for Unsteady Two-Dimensional and Axisymmetric Squeezing Flows between Parallel Plates. Mathematical Problems in Engineering, 2008, 2008, 1-13.	1.1	101
51	Parametric analysis and optimization of regenerative Clausius and organic Rankine cycles with two feedwater heaters using artificial bees colony and artificial neural network. Energy, 2011, 36, 5728-5740.	8.8	100
52	An optimal analysis of radiated nanomaterial flow with viscous dissipation and heat source. Microsystem Technologies, 2019, 25, 683-689.	2.0	100
53	Analysis of a combined power and ejector-refrigeration cycle using low temperature heat. Energy Conversion and Management, 2013, 65, 381-391.	9.2	97
54	Nature-inspired computing approach for solving non-linear singular Emdenâ€“Fowler problem arising in electromagnetic theory. Connection Science, 2015, 27, 377-396.	3.0	96

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55	Analytical method for solving steady MHD convective and slip flow due to a rotating disk with viscous dissipation and Ohmic heating. Engineering Computations, 2012, 29, 562-579.	1.4	94
56	A STUDY OF NON-NEWTONIAN FLOW AND HEAT TRANSFER OVER A NON-ISOTHERMAL WEDGE USING THE HOMOTOPY ANALYSIS METHOD. Chemical Engineering Communications, 2012, 199, 231-256.	2.6	94
57	Numerical Simulation of Entropy Generation with Thermal Radiation on MHD Carreau Nanofluid towards a Shrinking Sheet. Entropy, 2016, 18, 200.	2.2	93
58	Study of nanofluid forced convection heat transfer in a bent channel by means of lattice Boltzmann method. Physics of Fluids, 2018, 30, .	4.0	91
59	New analytical method for solving Burgers' and nonlinear heat transfer equations and comparison with HAM. Computer Physics Communications, 2009, 180, 1539-1544.	7.5	90
60	A comprehensive review of last experimental studies on thermal conductivity of nanofluids. Journal of Thermal Analysis and Calorimetry, 2015, 122, 863-884.	3.6	90
61	Analytic approximate solutions for unsteady boundary-layer flow and heat transfer due to a stretching sheet by homotopy analysis method. Nonlinear Analysis: Modelling and Control, 2010, 15, 83-95.	1.6	88
62	Free convective heat transfer with hall effects, heat absorption and chemical reaction over an accelerated moving plate in a rotating system. Journal of Magnetism and Magnetic Materials, 2017, 422, 112-123.	2.3	87
63	Lie Group Solution for Free Convective Flow of a Nanofluid Past a Chemically Reacting Horizontal Plate in a Porous Media. Mathematical Problems in Engineering, 2014, 2014, 1-21.	1.1	86
64	Steady nanofluid flow between parallel plates considering thermophoresis and Brownian effects. Journal of King Saud University - Science, 2016, 28, 380-389.	3.5	85
65	A robust numerical method for solving stagnation point flow over a permeable shrinking sheet under the influence of MHD. Applied Mathematics and Computation, 2018, 316, 381-389.	2.2	83
66	Entropy Generation on MHD Blood Flow of Nanofluid Due to Peristaltic Waves. Entropy, 2016, 18, 117.	2.2	82
67	Numerical study of heat transfer performance of nanofluids in a heat exchanger. Applied Thermal Engineering, 2016, 105, 436-455.	6.0	82
68	A new analytical study of MHD stagnation-point flow in porous media with heat transfer. Computers and Fluids, 2011, 40, 172-178.	2.5	80
69	The modified differential transform method for investigating nano boundaryâ€layers over stretching surfaces. International Journal of Numerical Methods for Heat and Fluid Flow, 2011, 21, 864-883.	2.8	77
70	Purely analytic approximate solutions for steady three-dimensional problem of condensation film on inclined rotating disk by homotopy analysis method. Nonlinear Analysis: Real World Applications, 2009, 10, 2346-2356.	1.7	75
71	Double-diffusive radiative magnetic mixed convective slip flow with Biot and Richardson number effects. Journal of Engineering Thermophysics, 2014, 23, 79-97.	1.4	75
72	A novel analytical solution of mixed convection about an inclined flat plate embedded in a porous medium using the DTM-PadÃ©. International Journal of Thermal Sciences, 2010, 49, 2405-2412.	4.9	74

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73	Casson Fluid Flow near the Stagnation Point over a Stretching Sheet with Variable Thickness and Radiation. Journal of Applied Fluid Mechanics, 2016, 9, 1115-1022.	0.2	74
74	Numerical study of natural convection of a waterâ€“alumina nanofluid in inclined C-shaped enclosures under the effect of magnetic field. Advanced Powder Technology, 2016, 27, 661-672.	4.1	72
75	Simulation of nanofluid natural convection in a U-shaped cavity equipped by a heating obstacle: Effect of cavity's aspect ratio. Journal of the Taiwan Institute of Chemical Engineers, 2018, 93, 263-276.	5.3	72
76	Numerical study of natural convection heat transfer in a heat exchanger filled with nanofluids. Energy, 2016, 109, 664-678.	8.8	70
77	A reliable treatment of a homotopy analysis method for two-dimensional viscous flow in a rectangular domain bounded by two moving porous walls. Nonlinear Analysis: Real World Applications, 2010, 11, 1502-1512.	1.7	69
78	Magnetohydrodynamic biorheological transport phenomena in a porous medium: A simulation of magnetic blood flow control and filtration. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 805-821.	2.1	69
79	Semi-computational simulation of magneto-hemodynamic flow in a semi-porous channel using optimal homotopy and differential transform methods. Computers in Biology and Medicine, 2013, 43, 1142-1153.	7.0	69
80	Three dimensional peristaltic flow of hyperbolic tangent fluid in non-uniform channel having flexible walls. AEJ - Alexandria Engineering Journal, 2016, 55, 653-662.	6.4	69
81	Comprehensive investigation of solid and porous fins influence on natural convection in an inclined rectangular enclosure. International Journal of Heat and Mass Transfer, 2019, 133, 729-744.	4.8	69
82	Analysis of Entropy Generation in the Flow of Peristaltic Nanofluids in Channels With Compliant Walls. Entropy, 2016, 18, 90.	2.2	68
83	Numerical investigation of MHD effects on nanofluid heat transfer in a baffled U-shaped enclosure using lattice Boltzmann method. Journal of Thermal Analysis and Calorimetry, 2019, 135, 3197-3213.	3.6	67
84	Numerical Study of Entropy Generation with Nonlinear Thermal Radiation on Magnetohydrodynamics non-Newtonian Nanofluid Through a Porous Shrinking Sheet. Journal of Magnetics, 2016, 21, 468-475.	0.4	67
85	Experimental study of nanofluid flow and heat transfer over microscale backward- and forward-facing steps. Experimental Thermal and Fluid Science, 2015, 65, 13-21.	2.7	65
86	Entropy Generation on Nanofluid Flow through a Horizontal Riga Plate. Entropy, 2016, 18, 223.	2.2	64
87	Influences of an effective Prandtl number model on nano boundary layer flow of Î³ Al2O3â€“H2O and Î³ Al2O3â€“C2H6O2 over a vertical stretching sheet. International Journal of Heat and Mass Transfer, 2016, 98, 616-623.	4.8	64
88	Explicit analytical solutions of the generalized Burger and Burgerâ€“Fisher equations by homotopy perturbation method. Numerical Methods for Partial Differential Equations, 2009, 25, 409-417.	3.6	63
89	Non-uniform magnetic field effect on nanofluid hydrothermal treatment considering Brownian motion and thermophoresis effects. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 1171-1184.	1.6	63
90	APPLICATION OF DRUG DELIVERY IN MAGNETOHYDRODYNAMICS PERISTALTIC BLOOD FLOW OF NANOFLUID IN A NON-UNIFORM CHANNEL. Journal of Mechanics in Medicine and Biology, 2016, 16, 1650052.	0.7	62

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91	COMPARATIVE NUMERICAL STUDY OF SINGLE-PHASE AND TWO-PHASE MODELS FOR BIO-NANOFLUID TRANSPORT PHENOMENA. Journal of Mechanics in Medicine and Biology, 2014, 14, 1450011.	0.7	60
92	Unsteady convective heat and mass transfer in pseudoplastic nanofluid over a stretching wall. Advanced Powder Technology, 2015, 26, 1319-1326.	4.1	60
93	An analytic solution of micropolar flow in a porous channel with mass injection using homotopy analysis method. International Journal of Numerical Methods for Heat and Fluid Flow, 2014, 24, 419-437.	2.8	59
94	Analytic Approximate Solutions for MHD Boundary-Layer Viscoelastic Fluid Flow over Continuously Moving Stretching Surface by Homotopy Analysis Method with Two Auxiliary Parameters. Journal of Applied Mathematics, 2012, 2012, 1-19.	0.9	57
95	Study of pulsatile flow in a porous annulus with the homotopy analysis method. International Journal of Numerical Methods for Heat and Fluid Flow, 2012, 22, 971-989.	2.8	57
96	Thermophysical Properties of Hybrid Nanofluids and the Proposed Models: An Updated Comprehensive Study. Nanomaterials, 2021, 11, 3084.	4.1	57
97	Series solutions for unsteady laminar MHD flow near forward stagnation point of an impulsively rotating and translating sphere in presence of buoyancy forces. Nonlinear Analysis: Real World Applications, 2010, 11, 1159-1169.	1.7	56
98	HOMOTOPY ANALYSIS OF TRANSIENT MAGNETO-BIO-FLUID DYNAMICS OF MICROPOLAR SQUEEZE FILM IN A POROUS MEDIUM: A MODEL FOR MAGNETO-BIO-RHEOLOGICAL LUBRICATION. Journal of Mechanics in Medicine and Biology, 2012, 12, 1250051.	0.7	54
99	Analysis of heat transfer due to stretching cylinder with partial slip and prescribed heat flux: A Chebyshev Spectral Newton Iterative Scheme. AEJ - Alexandria Engineering Journal, 2015, 54, 1029-1036.	6.4	54
100	Combine effects of Magnetohydrodynamics (MHD) and partial slip on peristaltic Blood flow of Reeâ€“Eyring fluid with wall properties. Engineering Science and Technology, an International Journal, 2016, 19, 1497-1502.	3.2	54
101	Effect of solid surface structure on the condensation flow of Argon in rough nanochannels with different roughness geometries using molecular dynamics simulation. International Communications in Heat and Mass Transfer, 2020, 117, 104741.	5.6	54
102	Applying wind energy as a clean source for reverse osmosis desalination: A comprehensive review. AEJ - Alexandria Engineering Journal, 2022, 61, 12977-12989.	6.4	54
103	Analytical solution of three-dimensional Navierâ€“Stokes equations for the flow near an infinite rotating disk. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2999-3006.	3.3	53
104	DTM- PadÃ© Modeling of Natural Convective Boundary Layer Flow of a Nanofluid Past a Vertical Surface. CIM Journal, 2011, 4, 13-24.	0.6	53
105	Using Differential Transform Method and PadÃ© Approximant for Solving MHD Flow in a Laminar Liquid Film from a Horizontal Stretching Surface. Mathematical Problems in Engineering, 2010, 2010, 1-14.	1.1	52
106	GROUP THEORY AND DIFFERENTIAL TRANSFORM ANALYSIS OF MIXED CONVECTIVE HEAT AND MASS TRANSFER FROM A HORIZONTAL SURFACE WITH CHEMICAL REACTION EFFECTS. Chemical Engineering Communications, 2012, 199, 1012-1043.	2.6	52
107	Entropy generation as a practical tool of optimisation for non-Newtonian nanofluid flow through a permeable stretching surface using SLM. Journal of Computational Design and Engineering, 2017, 4, 21-28.	3.1	52
108	A study on heat transfer in a secondâ€grade fluid through a porous medium with the modified differential transform method. Heat Transfer - Asian Research, 2013, 42, 31-45.	2.8	50

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109	Application of Multi-Step Differential Transform Method on Flow of a Second-Grade Fluid over a Stretching or Shrinking Sheet. American Journal of Computational Mathematics, 2011, 01, 119-128.	0.5	49
110	Numerical Simulation of Hybrid Nanofluid Mixed Convection in a Lid-Driven Square Cavity with Magnetic Field Using High-Order Compact Scheme. Nanomaterials, 2021, 11, 2250.	4.1	49
111	Effect of Al2O3/water nanofluid on performance of parallel flow heat exchangers. Journal of Thermal Analysis and Calorimetry, 2019, 135, 625-643.	3.6	48
112	Homotopy perturbation study of nonlinear vibration of Von Karman rectangular plates. Computers and Structures, 2012, 106-107, 46-55.	4.4	47
113	Numerical approach to boundary layer stagnation-point flow past a stretching/shrinking sheet. Journal of Molecular Liquids, 2016, 221, 860-866.	4.9	47
114	Study of heat and mass transfer with Joule heating on magnetohydrodynamic (MHD) peristaltic blood flow under the influence of Hall effect. Propulsion and Power Research, 2017, 6, 177-185.	4.3	47
115	VIM solution of squeezing MHD nanofluid flow in a rotating channel with lower stretching porous surface. Advanced Powder Technology, 2016, 27, 171-178.	4.1	46
116	Approximate solution of two-term fractional-order diffusion, wave-diffusion, and telegraph models arising in mathematical physics using optimal homotopy asymptotic method. Waves in Random and Complex Media, 2016, 26, 365-382.	2.7	46
117	Thermodynamic analysis of the ejector refrigeration cycle using the artificial neural network. Energy, 2017, 129, 201-215.	8.8	46
118	Entropy Generation Analysis for Stagnation Point Flow in a Porous Medium over a Permeable Stretching Surface. Journal of Applied Fluid Mechanics, 2015, 8, 753-765.	0.2	46
119	Analytical Modelling of Three-Dimensional Squeezing Nanofluid Flow in a Rotating Channel on a Lower Stretching Porous Wall. Mathematical Problems in Engineering, 2014, 2014, 1-14.	1.1	44
120	Effects of thermal radiation and electromagnetohydrodynamics on viscous nanofluid through a Riga plate. Multidiscipline Modeling in Materials and Structures, 2016, 12, 605-618.	1.3	44
121	Analysis of Stokes' Second Problem for Nanofluids Using Modern Approach of Atangana-Baleanu Fractional Derivative. Journal of Nanofluids, 2018, 7, 738-747.	2.7	44
122	The homotopy analysis method for explicit analytical solutions of Jaulentâ€“Miodek equations. Numerical Methods for Partial Differential Equations, 2009, 25, 430-439.	3.6	43
123	Heat transfer analysis due to an unsteady stretching/shrinking cylinder with partial slip condition and suction. Ain Shams Engineering Journal, 2015, 6, 939-945.	6.1	43
124	Numerical analysis of turbulent/transitional natural convection in trapezoidal enclosures. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 2902-2923.	2.8	43
125	THE MODIFIED DIFFERENTIAL TRANSFORM METHOD FOR SOLVING OFF-CENTERED STAGNATION FLOW TOWARD A ROTATING DISC. International Journal of Computational Methods, 2010, 07, 655-670.	1.3	42
126	Numerical Simulation of Entropy Generation on MHD Nanofluid Towards a Stagnation Point Flow Over a Stretching Surface. International Journal of Applied and Computational Mathematics, 2017, 3, 2275-2289.	1.6	42

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127	Experimental and numerical investigation of the effective electrical conductivity of nitrogen-doped graphene nanofluids. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	41
128	MHD forced convection of MWCNTâ€“Fe3O4/water hybrid nanofluid in a partially heated Ï„-shaped channel using LBM. Journal of Thermal Analysis and Calorimetry, 2019, 136, 1723-1735.	3.6	40
129	Performance evaluation of an irreversible Miller cycle comparing FTT (finite-time thermodynamics) analysis and ANN (artificial neural network) prediction. Energy, 2016, 94, 100-109.	8.8	39
130	Two phase flow simulation of conjugate natural convection of the nanofluid in a partitioned heat exchanger containing several conducting obstacles. International Journal of Mechanical Sciences, 2017, 130, 282-306.	6.7	39
131	Effect of hot obstacle position on natural convection heat transfer of MWCNTs-water nanofluid in U-shaped enclosure using lattice Boltzmann method. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 223-250.	2.8	39
132	Magnetohydrodynamics (MHD) stagnation point flow past a shrinking/stretching surface with double stratification effect in a porous medium. Journal of Thermal Analysis and Calorimetry, 2020, 139, 3635-3648.	3.6	39
133	Analysis and optimization of a transcritical power cycle with regenerator using artificial neural networks and genetic algorithms. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2011, 225, 701-717.	1.4	37
134	Entropy Generation with Nonlinear Thermal Radiation in MHD Boundary Layer Flow Over a Permeable Shrinking/Stretching Sheet: Numerical Solution. Journal of Nanofluids, 2016, 5, 543-548.	2.7	37
135	A study of heat and mass transfer on magnetohydrodynamic (MHD) flow of nanoparticles. Propulsion and Power Research, 2018, 7, 72-77.	4.3	36
136	Thermal diffusion and diffusion thermo effects on an unsteady heat and mass transfer magnetohydrodynamic natural convection Couette flow using FEM. Journal of Computational Design and Engineering, 2016, 3, 349-362.	3.1	34
137	MHD stagnation point flow of micropolar nanofluid between parallel porous plates with uniform blowing. Powder Technology, 2016, 301, 876-885.	4.2	34
138	Optimisation of process parameters on thin shell part using response surface methodology (RSM). AIP Conference Proceedings, 2017, , .	0.4	34
139	Numerical simulation of flow over a square cylinder with upstream and downstream circular bar using lattice Boltzmann method. International Journal of Modern Physics C, 2018, 29, 1850030.	1.7	34
140	A new and efficient mechanism for spark ignition engines. Energy Conversion and Management, 2015, 96, 418-429.	9.2	33
141	Modified cubic B-spline differential quadrature method for numerical solution of three-dimensional coupled viscous Burger equation. Modern Physics Letters B, 2016, 30, 1650110.	1.9	33
142	Impact of partial slip on mixed convective flow towards a Riga plate comprising micropolar TiO₂-kerosene/water nanoparticles. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1647-1662.	2.8	33
143	Numerical simulation of Fluid flow over a shrinking porous sheet by Successive linearization method. AEJ - Alexandria Engineering Journal, 2016, 55, 51-56.	6.4	32
144	An experimental study of flow patterns pertinent to waxy crude oil-water two-phase flows. Chemical Engineering Science, 2017, 164, 313-332.	3.8	32

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145	Gegenbauer wavelets collocation-based scheme to explore the solution of free bio-convection of nanofluid in 3D nearby stagnation point. Neural Computing and Applications, 2019, 31, 8003-8019.	5.6	32
146	Immersed boundaryâ€"thermal lattice Boltzmann method for the moving simulation of non-isothermal elliptical particles. Journal of Thermal Analysis and Calorimetry, 2019, 138, 4003-4017.	3.6	32
147	Thermal convection of nano-liquid in an electronic cabinet with finned heat sink and heat generating element. AEJ - Alexandria Engineering Journal, 2021, 60, 2769-2778.	6.4	31
148	Multi-soliton fusion phenomenon of Burgers equation and fission, fusion phenomenon of Sharmaâ€"Tassoâ€"Olver equation. Journal of Ocean Engineering and Science, 2017, 2, 120-126.	4.3	30
149	Conjugate-mixed convection heat transfer in a two-sided lid-driven cavity filled with nanofluid using Manninen's two phase model. International Journal of Mechanical Sciences, 2017, 131-132, 1026-1048.	6.7	30
150	Computational analysis of three layer fluid model including a nanomaterial layer. International Journal of Heat and Mass Transfer, 2018, 122, 222-228.	4.8	30
151	Nanofluid natural convection in a corrugated solar power plant using the hybrid LBM-TVD method. Energy, 2020, 199, 117402.	8.8	30
152	Homotopy simulation of axisymmetric laminar mixed convection nanofluid boundary layer flow over a vertical cylinder. Theoretical and Applied Mechanics, 2012, 39, 365-390.	0.3	30
153	New analytical method for the study of natural convection flow of a nonâ€Newtonian fluid. International Journal of Numerical Methods for Heat and Fluid Flow, 2013, 23, 436-450.	2.8	29
154	Analysis of Entropy Generation in MHD Stagnation-Point Flow in Porous Media with Heat Transfer. International Journal for Computational Methods in Engineering Science and Mechanics, 2014, 15, 345-355.	2.1	29
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