

Qasem Al-Mdallal

List of Publications by Year in descending order

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166
papers

4,921
citations

81900

39
h-index

155660

55
g-index

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all docs

167
docs citations

167
times ranked

2157
citing authors

#	ARTICLE	IF	CITATIONS
1	Fractional order mathematical modeling of COVID-19 transmission. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110256.	5.1	129
2	Heat transfer enhancement in free convection flow of CNTs Maxwell nanofluids with four different types of molecular liquids. <i>Scientific Reports</i> , 2017, 7, 2445.	3.3	122
3	Fractional logistic models in the frame of fractional operators generated by conformable derivatives. <i>Chaos, Solitons and Fractals</i> , 2019, 119, 94-101.	5.1	109
4	A fractional-order epidemic model with time-delay and nonlinear incidence rate. <i>Chaos, Solitons and Fractals</i> , 2019, 126, 97-105.	5.1	102
5	A collocation-shooting method for solving fractional boundary value problems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 3814-3822.	3.3	95
6	MHD natural convection flow enclosure in a corrugated cavity filled with a porous medium. <i>International Journal of Heat and Mass Transfer</i> , 2018, 121, 1168-1178.	4.8	95
7	Heat transfer and second order slip effect on MHD flow of fractional Maxwell fluid in a porous medium. <i>Journal of King Saud University - Science</i> , 2020, 32, 450-458.	3.5	91
8	Mixed convection flow of thermally stratified MHD nanofluid over an exponentially stretching surface with viscous dissipation effect. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 71, 307-314.	5.3	90
9	An efficient method for solving fractional Sturm-Liouville problems. <i>Chaos, Solitons and Fractals</i> , 2009, 40, 183-189.	5.1	83
10	Statistical modeling for bioconvective tangent hyperbolic nanofluid towards stretching surface with zero mass flux condition. <i>Scientific Reports</i> , 2021, 11, 13869.	3.3	83
11	On the asymptotic stability of linear system of fractional-order difference equations. <i>Fractional Calculus and Applied Analysis</i> , 2013, 16, 613-629.	2.2	80
12	Discrete Mittag-Leffler kernel type fractional difference initial value problems and Gronwall's inequality. <i>Journal of Computational and Applied Mathematics</i> , 2018, 339, 218-230.	2.0	75
13	Heat transport investigation of magneto-hydrodynamics (SWCNT-MWCNT) hybrid nanofluid under the thermal radiation regime. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101244.	5.7	75
14	Estimation of unsteady hydromagnetic Williamson fluid flow in a radiative surface through numerical and artificial neural network modeling. <i>Scientific Reports</i> , 2021, 11, 14509.	3.3	74
15	Thermal radiation and slip effects on MHD stagnation point flow of non-Newtonian nanofluid over a convective stretching surface. <i>Neural Computing and Applications</i> , 2019, 31, 207-217.	5.6	72
16	Stability analysis of fractional nabla difference COVID-19 model. <i>Results in Physics</i> , 2021, 22, 103888.	4.1	67
17	Heat generation/absorption and nonlinear radiation effects on stagnation point flow of nanofluid along a moving surface. <i>Results in Physics</i> , 2018, 8, 404-414.	4.1	64
18	Computational study on the dynamics of fractional order differential equations with applications. <i>Chaos, Solitons and Fractals</i> , 2022, 157, 111955.	5.1	62

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19	MHD pulsatile flow of engine oil based carbon nanotubes between two concentric cylinders. Results in Physics, 2017, 7, 57-68.	4.1	60
20	On the numerical solution of fractional Sturm-Liouville problems. International Journal of Computer Mathematics, 2010, 87, 2837-2845.	1.8	59
21	A sensitivity study on carbon nanotubes significance in Darcy-Forchheimer flow towards a rotating disk by response surface methodology. Scientific Reports, 2021, 11, 8812.	3.3	59
22	Forced streamwise oscillations of a circular cylinder: Locked-on modes and resulting fluid forces. Journal of Fluids and Structures, 2007, 23, 681-701.	3.4	58
23	Free convective micropolar fluid flow and heat transfer over a shrinking sheet with heat source. Case Studies in Thermal Engineering, 2018, 11, 113-119.	5.7	58
24	Dynamics of ternary-hybrid nanofluids due to dual stretching on wedge surfaces when volume of nanoparticles is small and large: forced convection of water at different temperatures. International Communications in Heat and Mass Transfer, 2022, 137, 106241.	5.6	56
25	Analytical Solutions of Fractional Walter's B Fluid with Applications. Complexity, 2018, 2018, 1-10.	1.6	53
26	An investigation on Arrhenius activation energy of second grade nanofluid flow with active and passive control of nanomaterials. Case Studies in Thermal Engineering, 2020, 22, 100774.	5.7	53
27	Efficient sustainable algorithm for numerical solutions of systems of fractional order differential equations by Haar wavelet collocation method. AEJ - Alexandria Engineering Journal, 2020, 59, 2391-2400.	6.4	52
28	Entropy generation for MHD two phase blood flow through a curved permeable artery having variable viscosity with heat and mass transfer. International Communications in Heat and Mass Transfer, 2022, 133, 105954.	5.6	52
29	Analysis of some generalized ABC Fractional logistic models. AEJ - Alexandria Engineering Journal, 2020, 59, 2141-2148.	6.4	49
30	Magneto-Marangoni nano-boundary layer flow of water and ethylene glycol based Al_2O_3 nanofluids with non-linear thermal radiation effects. Case Studies in Thermal Engineering, 2018, 12, 340-348.	5.7	48
31	Exponentiated transformation of Gumbel Type-II distribution for modeling COVID-19 data. AEJ - Alexandria Engineering Journal, 2021, 60, 671-689.	6.4	48
32	Marangoni radiative effects of hybrid-nanofluids flow past a permeable surface with inclined magnetic field. Case Studies in Thermal Engineering, 2020, 17, 100571.	5.7	46
33	Heat transfer analysis on buoyantly convective non-Newtonian stream in a hexagonal enclosure rooted with T-Shaped flipper: Hybrid meshed analysis. Case Studies in Thermal Engineering, 2020, 21, 100725.	5.7	46
34	The function of nanoparticle's diameter and Darcy-Forchheimer flow over a cylinder with effect of magnetic field and thermal radiation. Case Studies in Thermal Engineering, 2021, 28, 101392.	5.7	46
35	A Convergent Algorithm for Solving Higher-Order Nonlinear Fractional Boundary Value Problems. Fractional Calculus and Applied Analysis, 2015, 18, 1423-1440.	2.2	45
36	Finite element technique for the analysis of buoyantly convective multiply connected domain as a trapezium enclosure with heated circular obstacle. Journal of Molecular Liquids, 2019, 286, 110892.	4.9	45

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37	Fractional differential equations for the generalized Mittag-Leffler function. <i>Advances in Difference Equations</i> , 2018, 2018, .	3.5	44
38	Closed form dual nature solutions of fluid flow and heat transfer over a stretching/shrinking sheet in a porous medium. <i>Chinese Journal of Physics</i> , 2017, 55, 1284-1293.	3.9	43
39	Riga $\hat{\epsilon}$ Plate flow of $\hat{3}$ Al ₂ O ₃ -water/ethylene glycol with effective Prandtl number impacts. <i>Heliyon</i> , 2019, 5, e01651.	3.2	42
40	Exploring the magnetohydrodynamic stretched flow of Williamson Maxwell nanofluid through porous matrix over a permeated sheet with bioconvection and activation energy. <i>Scientific Reports</i> , 2022, 12, 278.	3.3	42
41	Aligned magnetic field effects on water based metallic nanoparticles over a stretching sheet with PST and thermal radiation effects. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 89, 33-42.	2.7	41
42	Non-Newtonian ferrofluid flow over an unsteady contracting cylinder under the influence of aligned magnetic field. <i>Case Studies in Thermal Engineering</i> , 2020, 21, 100679.	5.7	41
43	A new modified Kies Fr \hat{A} chet distribution: Applications of mortality rate of Covid-19. <i>Results in Physics</i> , 2021, 28, 104638.	4.1	41
44	Significance of suction/injection, gravity modulation, thermal radiation, and magnetohydrodynamic on dynamics of micropolar fluid subject to an inclined sheet via finite element approach. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101537.	5.7	41
45	Arbitrary Order Fractional Difference Operators with Discrete Exponential Kernels and Applications. <i>Discrete Dynamics in Nature and Society</i> , 2017, 2017, 1-8.	0.9	40
46	On the analysis of number of deaths due to Covid $\hat{\sim}$ 19 outbreak data using a new class of distributions. <i>Results in Physics</i> , 2021, 21, 103747.	4.1	39
47	Significance of magnetic field and activation energy on the features of stratified mixed radiative-convective couple-stress nanofluid flows with motile microorganisms. <i>AJ - Alexandria Engineering Journal</i> , 2022, 61, 1425-1436.	6.4	39
48	Stability analysis of a dynamical model of tuberculosis with incomplete treatment. <i>Advances in Difference Equations</i> , 2020, 2020, .	3.5	39
49	Sine $\hat{\epsilon}$ Cosine method for finding the soliton solutions of the generalized fifth-order nonlinear equation. <i>Chaos, Solitons and Fractals</i> , 2007, 33, 1610-1617.	5.1	38
50	Fractional-order Legendre-collocation method for solving fractional initial value problems. <i>Applied Mathematics and Computation</i> , 2018, 321, 74-84.	2.2	38
51	Numerical study of heat generating $\hat{3}$ AlO $\hat{\epsilon}$ HO nanofluid inside a square cavity with multiple obstacles of different shapes. <i>Heliyon</i> , 2020, 6, e05752.	3.2	38
52	On fractional-Legendre spectral Galerkin method for fractional Sturm $\hat{\epsilon}$ Liouville problems. <i>Chaos, Solitons and Fractals</i> , 2018, 116, 261-267.	5.1	37
53	A numerical investigation of Newtonian fluid flow with buoyancy, thermal slip of order two and entropy generation. <i>Case Studies in Thermal Engineering</i> , 2019, 13, 100376.	5.7	37
54	Effect of thermal radiation on conjugate natural convection flow of a micropolar fluid along a vertical surface. <i>Computers and Mathematics With Applications</i> , 2021, 83, 74-83.	2.7	37

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55	Theoretical and numerical investigation of entropy for the variable thermophysical characteristics of couple stress material: Applications to optimization. AEJ - Alexandria Engineering Journal, 2020, 59, 4365-4375.	6.4	36
56	Non-Linear Thermal Radiative Marangoni Boundary Layer Flow of Gamma Al ₂ O ₃ Nanofluids Past a Stretching Sheet. Journal of Nanofluids, 2018, 7, 944-950.	2.7	35
57	Analysis of Entropy Generation in Flow of Methanol-Based Nanofluid in a Sinusoidal Wavy Channel. Entropy, 2017, 19, 490.	2.2	34
58	A novel algorithm for time-fractional foam drainage equation. AEJ - Alexandria Engineering Journal, 2020, 59, 1607-1612.	6.4	34
59	An Efficient Numerical Algorithm for Solving Fractional Higher-Order Nonlinear Integrodifferential Equations. Abstract and Applied Analysis, 2015, 2015, 1-9.	0.7	33
60	Non-uniform heat source/sink effects on the three-dimensional flow of F_e oil nanofluid flow over a radially stretching rotating disk. Case Studies in Thermal Engineering, 2019, 15, 100521.	5.7	33
61	On heat transfer in the presence of nano-sized particles suspended in a magnetized rotatory flow field. Case Studies in Thermal Engineering, 2019, 14, 100457.	5.7	33
62	Computational study on nanoparticle shape effects of A_2 oil nanofluid flow over a radially stretching rotating disk. Case Studies in Thermal Engineering, 2021, 25, 100943.	5.7	33
63	Impact of heated triangular ribs on hydrodynamic forces in a rectangular domain with heated elliptic cylinder: Finite element analysis. International Communications in Heat and Mass Transfer, 2020, 112, 104501.	5.6	33
64	An efficient algorithm for solving higher-order fractional Sturm-Liouville eigenvalue problems. Journal of Computational Physics, 2014, 272, 550-558.	3.8	32
65	Flow of water based alumina and copper nanoparticles along a moving surface with variable temperature. Journal of Molecular Liquids, 2017, 246, 354-362.	4.9	32
66	A comparative remark on heat transfer in thermally stratified MHD Jeffrey fluid flow with thermal radiations subject to cylindrical/plane surfaces. Case Studies in Thermal Engineering, 2022, 32, 101913.	5.7	32
67	Locked-on vortex shedding modes from a rotationally oscillating circular cylinder. Ocean Engineering, 2017, 146, 324-338.	4.3	31
68	Numerical study of MHD effective Prandtl number boundary layer flow of $\hat{\gamma}^3$ AlO nanofluids past a melting surface. Case Studies in Thermal Engineering, 2019, 13, 100413.	5.7	30
69	Modeling and analysis on the transmission of covid-19 Pandemic in Ethiopia. AEJ - Alexandria Engineering Journal, 2022, 61, 5323-5342.	6.4	30
70	Symmetry analysis on thermally magnetized fluid flow regime with heat source/sink. Case Studies in Thermal Engineering, 2019, 14, 100452.	5.7	29
71	An efficient method for solving non-linear singularly perturbed two points boundary-value problems of fractional order. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 2299-2308.	3.3	28
72	A numerical study of forced convection from an isothermal cylinder performing rotational oscillations in a uniform stream. International Journal of Heat and Mass Transfer, 2018, 127, 357-374.	4.8	26

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73	Blasius and Sakiadis slip flow of H ₂ O-C ₂ H ₆ O ₂ (50:50) based nanofluid with different geometry of boehmite alumina nanoparticles. <i>Case Studies in Thermal Engineering</i> , 2019, 16, 100546.	5.7	25
74	Application of a hybrid method for systems of fractional order partial differential equations arising in the model of the one-dimensional Keller-Segel equation. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	25
75	Cattaneo-Christov double diffusions theories with bio-convection in nanofluid flow to enhance the efficiency of nanoparticles diffusion. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101017.	5.7	25
76	Ree-Eyring fluid flow of Cu-water nanofluid between infinite spinning disks with an effect of thermal radiation. <i>Ain Shams Engineering Journal</i> , 2021, 12, 2947-2956.	6.1	25
77	Buoyancy-driven convection of MWCNT-Casson nanofluid in a wavy enclosure with a circular barrier and parallel hot/cold fins. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 3249-3264.	6.4	25
78	Second law analysis for MHD slip flow for Williamson fluid over a vertical plate with Cattaneo-Christov heat flux. <i>Case Studies in Thermal Engineering</i> , 2022, 33, 101931.	5.7	25
79	Water driven Cu nanoparticles between two concentric ducts with oscillatory pressure gradient. <i>Journal of Molecular Liquids</i> , 2016, 224, 322-332.	4.9	24
80	A numerical study of initial flow past an impulsively started rotationally oscillating circular cylinder using a transformation-free HOC scheme. <i>Physics of Fluids</i> , 2017, 29, .	4.0	24
81	Numerical approach for nanofluid transportation due to electric force in a porous enclosure. <i>Microsystem Technologies</i> , 2019, 25, 2501-2514.	2.0	24
82	Entropy analysis for radiative inclined MHD slip flow with heat source in porous medium for two different fluids. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101491.	5.7	24
83	Analysis of natural convection for a Casson-based multiwall carbon nanotube nanofluid in a partially heated wavy enclosure with a circular obstacle in the presence of thermal radiation. <i>Journal of Advanced Research</i> , 2022, 39, 167-185.	9.5	24
84	Heat transportation enrichment and elliptic cylindrical solution of time-dependent flow. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101248.	5.7	23
85	A fractional-order model of COVID-19 considering the fear effect of the media and social networks on the community. <i>Chaos, Solitons and Fractals</i> , 2021, 152, 111403.	5.1	23
86	Monotone iterative sequences for nonlinear integro-differential equations of second order. <i>Nonlinear Analysis: Real World Applications</i> , 2011, 12, 3665-3673.	1.7	22
87	Finite element examination of hydrodynamic forces in grooved channel having two partially heated circular cylinders. <i>Case Studies in Thermal Engineering</i> , 2020, 18, 100600.	5.7	22
88	On the iterative methods for solving fractional initial value problems: new perspective. <i>Journal of Fractional Calculus and Nonlinear Systems</i> , 2021, 2, 76-81.	1.5	22
89	Numerical simulation for solution of SEIR models by meshless and finite difference methods. <i>Chaos, Solitons and Fractals</i> , 2020, 141, 110340.	5.1	21
90	Simulation of natural convection of Fe ₃ O ₄ -water ferrofluid in a circular porous cavity in the presence of a magnetic field. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	20

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91	Influence of adding nanoparticles on solidification in a heat storage system considering radiation effect. <i>Journal of Molecular Liquids</i> , 2019, 273, 589-605.	4.9	20
92	Numerical modeling of NPZ and SIR models with and without diffusion. <i>Results in Physics</i> , 2020, 19, 103512.	4.1	20
93	Cyrotactic micro-organism flow of Maxwell nanofluid between two parallel plates. <i>Scientific Reports</i> , 2021, 11, 15142.	3.3	20
94	Heat transfer from a heated non-rotating cylinder performing circular motion in a uniform stream. <i>International Journal of Heat and Mass Transfer</i> , 2017, 112, 147-157.	4.8	19
95	A Numerical Algorithm for Solving Higher-Order Nonlinear BVPs with an Application on Fluid Flow over a Shrinking Permeable Infinite Long Cylinder. <i>Complexity</i> , 2018, 2018, 1-11.	1.6	19
96	Legendre multi-wavelets collocation method for numerical solution of linear and nonlinear integral equations. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 5099-5109.	6.4	19
97	Shifted Legendre Collocation Method for the Solution of Unsteady Viscous-Ohmic Dissipative Hybrid Ferrofluid Flow over a Cylinder. <i>Nanomaterials</i> , 2021, 11, 1512.	4.1	19
98	A Haar wavelet collocation approach for solving one and two-dimensional second-order linear and nonlinear hyperbolic telegraph equations. <i>Numerical Methods for Partial Differential Equations</i> , 2020, 36, 1962-1981.	3.6	18
99	Differential equations of even-order with p-Laplacian like operators: qualitative properties of the solutions. <i>Advances in Difference Equations</i> , 2021, 2021, .	3.5	18
100	Numerical simulation of viscous flow past a circular cylinder subject to a circular motion. <i>European Journal of Mechanics, B/Fluids</i> , 2015, 49, 121-136.	2.5	17
101	Theoretical and computational perspectives on the eigenvalues of fourth-order fractional Sturm-Liouville problem. <i>International Journal of Computer Mathematics</i> , 2018, 95, 1548-1564.	1.8	17
102	Dynamics of thermally magnetized grooved flow field having uniformly heated circular cylinder: Finite element analysis. <i>Case Studies in Thermal Engineering</i> , 2020, 21, 100718.	5.7	17
103	Numerical Study of Unsteady Flow of a Fluid Over Shrinking Long Cylinder in a Porous Medium Undermagnetic Force. <i>Journal of Nanofluids</i> , 2019, 8, 1609-1615.	2.7	17
104	The Chebyshev collocation-path following method for solving sixth-order Sturm-Liouville problems. <i>Applied Mathematics and Computation</i> , 2014, 232, 391-398.	2.2	16
105	Physical aspects of magnetized suspended nanoparticles in a rotatory frame: Numerical simulation. <i>Ain Shams Engineering Journal</i> , 2020, 11, 479-487.	6.1	16
106	A numerical study of initial flow past a circular cylinder with combined streamwise and transverse oscillations. <i>Computers and Fluids</i> , 2012, 63, 174-183.	2.5	15
107	Buoyancy driven Flow of a Second-Grade Nanofluid flow Taking into Account the Arrhenius Activation Energy and Elastic Deformation: Models and Numerical Results. <i>Fluid Dynamics and Materials Processing</i> , 2021, 17, 319-332.	0.7	15
108	Comsol solution of an elliptic cylindrical compressible fluid flow. <i>Scientific Reports</i> , 2021, 11, 20030.	3.3	15

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109	On both magnetized and non-magnetized dual stratified medium via stream lines topologies: A generalized formulation. <i>Scientific Reports</i> , 2019, 9, 6306.	3.3	14
110	Hybrid mesh finite element analysis (HMFEA) of uniformly heated cylinder in a partially heated moon shaped enclosure. <i>Case Studies in Thermal Engineering</i> , 2020, 21, 100713.	5.7	14
111	On partially heated circular obstacle in a channel having heated rectangular ribs: Finite element outcomes. <i>Case Studies in Thermal Engineering</i> , 2020, 18, 100597.	5.7	12
112	Numerical simulation and stability analysis on MHD free convective heat and mass transfer unsteady flow through a porous medium in a rotating system with induced magnetic field. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2013, 41, 121-141.	0.6	11
113	Unsteady Flow and Heat Transfer Characteristics of Fluid Flow Over a Shrinking Permeable Infinite Long Cylinder. <i>Journal of Heat Transfer</i> , 2016, 138, .	2.1	11
114	Numerical study of streamwise and cross flow in the presence of heat and mass transfer. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	11
115	Natural convection flow of a fluid using Atangana and Baleanu fractional model. <i>Advances in Difference Equations</i> , 2020, 2020, .	3.5	11
116	Numerical Simulations of a Delay Model for Immune System-Tumor Interaction. <i>MaÇŞallatî ÇŞÄmiÊzati Al-Sulá1Än QÄbÄs Li-l-buá,¥Ä«á1 Al-Êzilmiiyyatî Al-ÊzulÄ«m Wa-al-handasatî</i> , 2018, 23, 19.	0.1	11
117	Convergent Power Series of $\text{sech}_1(x)$ and Solutions to Nonlinear Differential Equations. <i>International Journal of Differential Equations</i> , 2018, 2018, 1-10.	0.8	10
118	On inclined heated square obstacle in a liquid stream carried by partially heated channel: Finite element analysis. <i>Case Studies in Thermal Engineering</i> , 2019, 15, 100532.	5.7	10
119	Nanoparticle transportation through a permeable duct with Joule heating influence. <i>Microsystem Technologies</i> , 2019, 25, 3571-3580.	2.0	10
120	On a new method for finding numerical solutions to integro-differential equations based on Legendre multi-wavelets collocation. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 3037-3049.	6.4	10
121	Impact of boundary conditions of third kind on nanoliquid flow and Radiative heat transfer through asymmetrical channel. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101488.	5.7	10
122	A computational framework to solve the nonlinear dengue fever SIR system. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2022, 25, 1821-1834.	1.6	10
123	Numerical Investigation of Heat Generation and Magnetohydrodynamic Flow of Fluid Over a Shrinking Infinite Long Cylinder Through Porous Medium. <i>Journal of Nanofluids</i> , 2022, 11, 285-295.	2.7	10
124	Stagnation-Point Flow of the Williamson Nanofluid Containing Gyrotactic Micro-organisms. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2021, 91, 633-648.	1.2	10
125	Free convection flow of hybrid ferrofluid past a heated spinning cone. <i>Thermal Science and Engineering Progress</i> , 2022, 32, 101335.	2.7	10
126	Rotational oscillations of a cylinder in cross-flow. <i>International Journal of Computational Fluid Dynamics</i> , 2006, 20, 293-299.	1.2	9

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127	Boundary value problems for nonlinear fractional integro-differential equations: theoretical and numerical results. <i>Advances in Difference Equations</i> , 2012, 2012, .	3.5	9
128	Partial slip effects on the peristaltic motion of an upper-convected Maxwell fluid through an irregular channel. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	9
129	Buoyancy driven second grade nano boundary layers over a catalytic surface with reaction rate, heat of reaction and activation energy at boundary. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101346.	5.7	9
130	The Transmission Dynamics of Hepatitis B Virus via the Fractional-Order Epidemiological Model. <i>Complexity</i> , 2021, 2021, 1-18.	1.6	9
131	A new family of exact solutions to the unsteady Navier-Stokes equations using canonical transformation with complex coefficients. <i>Applied Mathematics and Computation</i> , 2008, 196, 303-308.	2.2	8
132	Effects of orientation of the centrally placed heated baffle in an alternative configured ventilation cavity. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	8
133	Numerical Investigation of Open Cavities with Parallel Insulated Baffles. <i>International Journal of Heat and Technology</i> , 2020, 38, 611-621.	0.6	8
134	Existence theory and approximate solution to prey-predator coupled system involving nonsingular kernel type derivative. <i>Advances in Difference Equations</i> , 2020, 2020, .	3.5	8
135	Significance of magnetic field and chemical reaction on the natural convective flow of hybrid nanofluid by a sphere with viscous dissipation: A statistical approach. <i>Nonlinear Engineering</i> , 2021, 10, 563-573.	2.7	8
136	On infinite circulant-balanced complete multipartite graphs decompositions based on generalized algorithmic approaches. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 11267-11275.	6.4	8
137	The extended homotopy perturbation method for the boundary layer flow due to a stretching sheet with partial slip. <i>International Journal of Computer Mathematics</i> , 2013, 90, 1990-2002.	1.8	7
138	Non-linear radiation effect on dusty fluid flow near a rotating blunt-nosed body. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2021, 235, 1775-1783.	2.5	7
139	Computational Study on Three-Dimensional Convective Casson Nanofluid Flow past a Stretching Sheet with Arrhenius Activation Energy and Exponential Heat Source Effects. <i>Complexity</i> , 2021, 2021, 1-16.	1.6	7
140	Coupled buoyancy and Marangoni convection in a hybrid nanofluid-filled cylindrical porous annulus with a circular thin baffle. <i>European Physical Journal: Special Topics</i> , 2022, 231, 2645-2660.	2.6	7
141	Extended homotopy perturbation method and the axisymmetric flow past a porous stretching sheet. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 69, 909-925.	1.6	6
142	Thermal influence of homogeneously heated Y-shaped flipper on flowing stream in an unwavering rectangular domain. <i>Case Studies in Thermal Engineering</i> , 2020, 21, 100715.	5.7	6
143	Efficient Numerical Algorithm for the Solution of Eight Order Boundary Value Problems by Haar Wavelet Method. <i>International Journal of Applied and Computational Mathematics</i> , 2021, 7, 34.	1.6	6
144	The extended homotopy perturbation method and boundary layer flow due to condensation and natural convection on a porous vertical plate. <i>International Journal of Computer Mathematics</i> , 2011, 88, 3535-3552.	1.8	5

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145	SA-copper based Maxwell nanofluid flow with second order slip effect using fractional derivatives. AIP Conference Proceedings, 2019, , .	0.4	5
146	Numerical study of low Reynolds hybrid discretized convergent-divergent (CD) channel rooted with obstructions in left/right vicinity of CD throat. Results in Physics, 2021, 24, 104141.	4.1	5
147	Experimental and numerical assessment of the rotary bed reactor for fuel-processing and evaluation of produced oil usability as fuel substitute. Case Studies in Thermal Engineering, 2022, 29, 101710.	5.7	5
148	Review of design optimization of fluid machinery: applying computational fluid dynamics and numerical optimization. Complex Adaptive Systems Modeling, 2019, 7, .	1.6	4
149	Flow of ferrofluids under second order slip effect. AIP Conference Proceedings, 2019, , .	0.4	4
150	Numerical solutions of fractional parabolic equations with generalized Mittag-Leffler kernels. Numerical Methods for Partial Differential Equations, 2024, 40, .	3.6	4
151	Numerical Study of the Flow of Two Radiative Nanofluids with Marangoni Convection Embedded in Porous Medium. Journal of Nanomaterials, 2022, 2022, 1-7.	2.7	4
152	Numerical simulation of the flow behind a circular cylinder subject to small-amplitude recti-linear oscillations. Advances in Engineering Software, 2004, 35, 619-631.	3.8	3
153	Analytical sequences of upper and lower solutions for a class of elliptic equations. Journal of Mathematical Analysis and Applications, 2011, 374, 402-411.	1.0	3
154	On the Fractional Legendre Equation and Fractional Legendre Functions. Progress in Fractional Differentiation and Applications, 2017, 3, 93-102.	0.6	3
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