Farhad Ali

List of Publications by Year in descending order

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69 papers	2,030 citations	257450 24 h-index	276875 41 g-index
69 all docs	69 docs citations	69 times ranked	955 citing authors

#	Article	IF	Citations
1	Comparison and analysis of the Atanganaâ€“Baleanu and Caputoâ€“Fabrizio fractional derivatives for generalized Casson fluid model with heat generation and chemical reaction. Results in Physics, 2017, 7, 789-800.	4.1	186
2	Application of Caputo-Fabrizio derivatives to MHD free convection flow of generalized Waltersâ€™-B fluid model. European Physical Journal Plus, 2016, 131, 1.	2.6	162
3	Numerical Analysis of the Unsteady Natural Convection MHD Couette Nanofluid Flow in the Presence of Thermal Radiation Using Single and Two-Phase Nanofluid Models for Cuâ€“Water Nanofluids. International Journal of Applied and Computational Mathematics, 2018, 4, 1.	1.6	135
4	A comparative study of Atangana-Baleanu and Caputo-Fabrizio fractional derivatives to the convective flow of a generalized Casson fluid. European Physical Journal Plus, 2017, 132, 1.	2.6	85
5	Exact solutions for free convection flow of generalized Jeffrey fluid: A Caputo-Fabrizio fractional model. AEJ - Alexandria Engineering Journal, 2018, 57, 1849-1858.	6.4	71
6	MHD Flow of Sodium Alginate-Based Casson Type Nanofluid Passing Through A Porous Medium With Newtonian Heating. Scientific Reports, 2018, 8, 8645.	3.3	69
7	A modern approach of Caputoâ€“Fabrizio time-fractional derivative to MHD free convection flow of generalized second-grade fluid in a porous medium. Neural Computing and Applications, 2018, 30, 1865-1875.	5.6	62
8	A report on COVID-19 epidemic in Pakistan using SEIR fractional model. Scientific Reports, 2020, 10, 22268.	3.3	62
9	On the applications of nanofluids to enhance the performance of solar collectors: A comparative analysis of Atangana-Baleanu and Caputo-Fabrizio fractional models. European Physical Journal Plus, 2017, 132, 1.	2.6	58
10	A Time Fractional Model of Generalized Couette Flow of Couple Stress Nanofluid With Heat and Mass Transfer: Applications in Engine Oil. IEEE Access, 2020, 8, 146944-146966.	4.2	58
11	Solutions with special functions for time fractional free convection flow of Brinkman-type fluid. European Physical Journal Plus, 2016, 131, 1.	2.6	52
12	Engine oil based generalized brinkmanâ€type nanoâ€liquid with molybdenum disulphide nanoparticles of spherical shape: Atanganaâ€Baleanu fractional model. Numerical Methods for Partial Differential Equations, 2018, 34, 1472-1488.	3.6	43
13	Effects of Different Shaped Nanoparticles on the Performance of Engine-Oil and Kerosene-Oil: A generalized Brinkman-Type Fluid model with Non-Singular Kernel. Scientific Reports, 2018, 8, 15285.	3.3	42
14	Solutions with Wright Function for Time Fractional Free Convection Flow of Casson Fluid. Arabian Journal for Science and Engineering, 2017, 42, 2565-2572.	3.0	41
15	Convection in ethylene glycol-based molybdenum disulfide nanofluid. Journal of Thermal Analysis and Calorimetry, 2019, 135, 523-532.	3.6	41
16	Heat transfer analysis of generalized Jeffery nanofluid in a rotating frame: Atanganaâ€“Balaenu and Caputoâ€“Fabrizio fractional models. Chaos, Solitons and Fractals, 2019, 129, 1-15.	5.1	37
17	Effects of Relative Magnetic Field, Chemical Reaction, Heat Generation and Newtonian Heating on Convection Flow of Casson Fluid over a Moving Vertical Plate Embedded in a Porous Medium. Scientific Reports, 2019, 9, 400.	3.3	36
18	Dynamics of fractal-fractional model of a new chaotic system of integrated circuit with Mittag-Leffler kernel. Chaos, Solitons and Fractals, 2021, 153, 111602.	5.1	36

#	ARTICLE	IF	CITATIONS
19	Entropy Generation in Different Types of Fractionalized Nanofluids. Arabian Journal for Science and Engineering, 2019, 44, 531-540.	3.0	34
20	A Note on New Exact Solutions for Some Unsteady Flows of Brinkman- Type Fluids over a Plane Wall. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 377-380.	1.5	32
21	A generalized magnetohydrodynamic two-phase free convection flow of dusty Casson fluid between parallel plates. Case Studies in Thermal Engineering, 2022, 29, 101657.	5.7	31
22	Heat and Mass Transfer with Free Convection MHD Flow Past a Vertical Plate Embedded in a Porous Medium. Mathematical Problems in Engineering, 2013, 2013, 1-13.	1.1	30
23	Flow of magnetic particles in blood with isothermal heating: A fractional model for two-phase flow. Journal of Magnetism and Magnetic Materials, 2018, 456, 413-422.	2.3	29
24	Fractional Model of Couple Stress Fluid for Generalized Couette Flow: A Comparative Analysis of Atanganaâ€“Baleanu and Caputoâ€“Fabrizio Fractional Derivatives. IEEE Access, 2019, 7, 88643-88655.	4.2	28
25	Hall Effect on Radiative Casson Fluid Flow with Chemical Reaction on a Rotating Cone through Entropy Optimization. Entropy, 2020, 22, 480.	2.2	27
26	Unsteady Magnetohydrodynamic Oscillatory Flow of Viscoelastic Fluids in a Porous Channel with Heat and Mass Transfer. Journal of the Physical Society of Japan, 2012, 81, 064402.	1.6	26
27	MHD Flow of Micropolar Fluid over an Oscillating Vertical Plate Embedded in Porous Media with Constant Temperature and Concentration. Mathematical Problems in Engineering, 2017, 2017, 1-20.	1.1	24
28	Heat and mass transfer phenomena in the flow of Casson fluid over an infinite oscillating plate in the presence of first-order chemical reaction and slip effect. Neural Computing and Applications, 2018, 30, 2159-2172.	5.6	24
29	Effects of Wall Shear Stress on MHD Conjugate Flow over an Inclined Plate in a Porous Medium with Ramped Wall Temperature. Mathematical Problems in Engineering, 2014, 2014, 1-15.	1.1	22
30	Application of time-fractional derivatives with non-singular kernel to the generalized convective flow of Casson fluid in a microchannel with constant walls temperature. European Physical Journal: Special Topics, 2017, 226, 3791-3802.	2.6	22
31	Couette flow of viscoelastic dusty fluid in a rotating frame along with the heat transfer. Scientific Reports, 2021, 11, 506.	3.3	21
32	Effects of Wall Shear Stress on Unsteady MHD Conjugate Flow in a Porous Medium with Ramped Wall Temperature. PLoS ONE, 2014, 9, e90280.	2.5	21
33	Atanganaâ€“Baleanu fractional model for the flow of Jeffrey nanofluid with diffusion-thermo effects: applications in engine oil. Advances in Difference Equations, 2019, 2019, .	3.5	20
34	Two-Phase Fluctuating Flow of Dusty Viscoelastic Fluid Between Non-Conducting Rigid Plates With Heat Transfer. IEEE Access, 2019, 7, 123299-123306.	4.2	19
35	A Time Fractional Model With Non-Singular Kernel the Generalized Couette Flow of Couple Stress Nanofluid. IEEE Access, 2020, 8, 77378-77395.	4.2	19
36	A Report On Fluctuating Free Convection Flow Of Heat Absorbing Viscoelastic Dusty Fluid Past In A Horizontal Channel With MHD Effect. Scientific Reports, 2020, 10, 8523.	3.3	19

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37	MHD effects on the channel flow of a fractional viscous fluid through a porous medium: An application of the Caputo-Fabrizio time-fractional derivative. Chinese Journal of Physics, 2020, 65, 14-23.	3.9	18
38	Exact Analysis of Non-Linear Electro-Osmotic Flow of Generalized Maxwell Nanofluid: Applications in Concrete Based Nano-Materials. IEEE Access, 2020, 8, 96738-96747.	4.2	18
39	UNSTEADY MHD FLOW OF SECOND-GRADE FLUID OVER AN OSCILLATING VERTICAL PLATE WITH ISOTHERMAL TEMPERATURE IN A POROUS MEDIUM WITH HEAT AND MASS TRANSFER BY USING THE LAPLACE TRANSFORM TECHNIQUE. Journal of Porous Media, 2017, 20, 671-690.	1.9	18
40	Influence of Slip Condition on Unsteady Free Convection Flow of Viscous Fluid with Ramped Wall Temperature. Abstract and Applied Analysis, 2015, 2015, 1-7.	0.7	16
41	Radiation and Porosity Effects on the Magnetohydrodynamic Flow Past an Oscillating Vertical Plate with Uniform Heat Flux. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 572-580.	1.5	14
42	Maxwell Nanofluid Flow over an Infinite Vertical Plate with Ramped and Isothermal Wall Temperature and Concentration. Mathematical Problems in Engineering, 2021, 2021, 1-19.	1.1	14
43	Atanganaâ€“Baleanu fractional model for electro-osmotic flow of viscoelastic fluids. Chaos, Solitons and Fractals, 2019, 124, 125-133.	5.1	13
44	A scientific outcome of wall shear stress on dusty viscoelastic fluid along heat absorbing in an inclined channel. Case Studies in Thermal Engineering, 2022, 30, 101764.	5.7	13
45	Entropy Generation in MHD Conjugate Flow with Wall Shear Stress over an Infinite Plate: Exact Analysis. Entropy, 2019, 21, 359.	2.2	12
46	The unsteady flow of generalized hybrid nanofluids: applications in cementitious materials. Journal of the Australian Ceramic Society, 2019, 55, 657-666.	1.9	12
47	Thin Film Flow of Couple Stress Magneto-Hydrodynamics Nanofluid with Convective Heat over an Inclined Exponentially Rotating Stretched Surface. Coatings, 2020, 10, 338.	2.6	12
48	Free convection flow of second grade dusty fluid between two parallel plates using Fickâ€™s and Fourierâ€™s laws: a fractional model. Scientific Reports, 2022, 12, 3448.	3.3	12
49	Influence of Thermal Radiation on Unsteady Free Convection MHD Flow of Brinkman Type Fluid in a Porous Medium with Newtonian Heating. Mathematical Problems in Engineering, 2013, 2013, 1-13.	1.1	11
50	DYNAMICS OF COOPERATIVE REACTIONS BASED ON CHEMICAL KINETICS WITH REACTION SPEED: A COMPARATIVE ANALYSIS WITH SINGULAR AND NONSINGULAR KERNELS. Fractals, 2022, 30, .	3.7	11
51	A time fractional model of Brinkman-type nanofluid with ramped wall temperature and concentration. Advances in Mechanical Engineering, 2022, 14, 168781322210960.	1.6	11
52	Exact analysis of MHD flow of a Walters'-B fluid over an isothermal oscillating plate embedded in a porous medium. European Physical Journal Plus, 2017, 132, 1.	2.6	10
53	Application of the modern trend of fractional differentiation to the MHD flow of a generalized Casson fluid in a microchannel: Modelling and solutionâ†. European Physical Journal Plus, 2018, 133, 1.	2.6	10
54	The impact of magnetohydrodynamics and heat transfer on the unsteady flow of Casson fluid in an oscillating cylinder via integral transform: A Caputoâ€“Fabrizio fractional model. Pramana - Journal of Physics, 2019, 93, 1.	1.8	10

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55	Generalized Model of Blood Flow in a Vertical Tube with Suspension of Gold Nanomaterials: Applications in the Cancer Therapy. Computers, Materials and Continua, 2020, 65, 171-192.	1.9	10
56	Exact solutions for the Atangana-Baleanu time-fractional model of a Brinkman-type nanofluid in a rotating frame: Applications in solar collectors. European Physical Journal Plus, 2019, 134, 1.	2.6	8
57	Heat Transfer Analysis in Ethylene Glycol Based Molybdenum Disulfide Generalized Nanofluid via Atanganaâ€“Baleanu Fractional Derivative Approach. Studies in Systems, Decision and Control, 2019, , 217-233.	1.0	8
58	The impact of side walls on the MHD flow of a second-grade fluid through a porous medium. Neural Computing and Applications, 2018, 30, 1103-1109.	5.6	7
59	Fractional model of MHD blood flow in a cylindrical tube containing magnetic particles. Scientific Reports, 2022, 12, 418.	3.3	6
60	Time fractional analysis of channel flow of couple stress Casson fluid using Fickâ€™s and Fourierâ€™s Laws. Scientific Reports, 2022, 12, 2956.	3.3	6
61	Magnetohydrodynamic Fluctuating Free Convection Flow of Second-Grade Fluid Flow in a Porous Medium. Mathematical Problems in Engineering, 2021, 2021, 1-13.	1.1	5
62	Magnetohydrodynamic Blood Flow in a Cylindrical Tube with Magnetic Particles: A Time Fractional Model. Mathematical Problems in Engineering, 2021, 2021, 1-14.	1.1	5
63	Caputo Time Fractional Model Based on Generalized Fourierâ€™s and Fickâ€™s Laws for Jeffrey Nanofluid: Applications in Automobiles. Mathematical Problems in Engineering, 2021, 2021, 1-12.	1.1	4
64	A time-fractional model of free convection electro-osmotic flow of Casson fluid through a microchannel using generalized Fourier and Fickâ€™s law. Waves in Random and Complex Media, 0, , 1-20.	2.7	4
65	Quasilinearization numerical technique for dual slip MHD Newtonian fluid flow with entropy generation in thermally dissipating flow above a thin needle. Scientific Reports, 2021, 11, 15130.	3.3	3
66	Exact Solutions of Heat and Mass Transfer with MHD Flow in a Porous Medium under Time Dependent Shear Stress and Temperature. Abstract and Applied Analysis, 2015, 2015, 1-16.	0.7	2
67	On (p,q)-Sumudu and (p,q)-Laplace Transforms of the Basic Analogue of Aleph-Function. Symmetry, 2020, 12, 390.	2.2	2
68	Effects of MHD and porosity on entropy generation in two incompressible Newtonian fluids over a thin needle in a parallel free stream. Scientific Reports, 2020, 10, 22305.	3.3	1
69	Reply to the Comment by A.M. Abd El-Lateif, A.M. Abdel-Hameid on â€œSolutions with special functions for time fractional free convection flow of Brinkman-type fluidâ€• European Physical Journal Plus, 2017, 132, 1.	2.6	0