

# Kashif Ali Abro

## List of Publications by Year in descending order

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100  
papers

2,780  
citations

147801

31  
h-index

243625

44  
g-index

104  
all docs

104  
docs citations

104  
times ranked

838  
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative analysis of plasma dilution based on fractional integro-differential equation: an application to biological science. <i>International Journal of Modelling and Simulation</i> , 2023, 43, 1-10.	3.3	12
2	Chaotic characteristics of thermal convection at smaller versus larger Prandtl number through fractal and fractional differential operators from nanofluid. <i>International Journal of Modelling and Simulation</i> , 2023, 43, 11-22.	3.3	14
3	Thermo-dynamical investigation of constitutive equation for rate type fluid: a semi-analytical approach. <i>International Journal of Modelling and Simulation</i> , 2023, 43, 123-134.	3.3	6
4	A non-linear analysis and fractionalized dynamics of Langmuir waves and ion sound as an application to acoustic waves. <i>International Journal of Modelling and Simulation</i> , 2023, 43, 235-241.	3.3	2
5	Chaos control and characterization of brushless DC motor via integral and differential fractal-fractional techniques. <i>International Journal of Modelling and Simulation</i> , 2023, 43, 416-425.	3.3	9
6	On the numerical study of fractional and non-fractional model of nonlinear Duffing oscillator: a comparison of integer and non-integer order approaches. <i>International Journal of Modelling and Simulation</i> , 2023, 43, 362-375.	3.3	10
7	Thermal analysis of oblique stagnation point flow with slippage on second-order fluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 3839-3851.	3.6	25
8	A computational technique for thermal analysis in coaxial cylinder of one-dimensional flow of fractional Oldroyd-B nanofluid. <i>International Journal of Ambient Energy</i> , 2022, 43, 5357-5365.	2.5	23
9	Strange Attractors and Optimal Analysis of Chaotic Systems based on Fractal versus Fractional Differential Operators. <i>International Journal of Modelling and Simulation</i> , 2022, 42, 716-724.	3.3	16
10	Effects of solid particles on fluid-particulate phase flow of non-Newtonian fluid through eccentric annuli having thin peristaltic walls. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 1645-1656.	3.6	16
11	Numerical study and chaotic oscillations for aerodynamic model of wind turbine via fractal and fractional differential operators. <i>Numerical Methods for Partial Differential Equations</i> , 2022, 38, 1180-1194.	3.6	27
12	Ferromagnetic Chaos in thermal convection of fluid through fractal-fractional differentiations. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 8461-8473.	3.6	17
13	Application of Fourier Sine Transform to Carbon Nanotubes Suspended in Ethylene Glycol for the Enhancement of Heat Transfer. <i>Energies</i> , 2022, 15, 1200.	3.1	13
14	The role of relaxation and retardation phenomenon of Oldroyd-B fluid flow through Stehfest's and Tzou's algorithms. <i>Nonlinear Engineering</i> , 2022, 11, 35-46.	2.7	14
15	Heat Transfer Characteristics of Fractionalized Hydromagnetic Fluid with Chemical Reaction in Permeable Media. <i>Energies</i> , 2022, 15, 2196.	3.1	12
16	A scientific report of singular kernel on the rate-type fluid subject to the mixed convection flow. <i>Soft Computing</i> , 2022, 26, 4575-4585.	3.6	13
17	Comparative Analysis of Statistical and Fractional Approaches for Thermal Conductance Through Suspension of Ethylene Glycol Nanofluid. <i>Brazilian Journal of Physics</i> , 2022, 52, .	1.4	10
18	Thermal deformity and thermolysis of magnetized and fractional Newtonian fluid with rheological investigation. <i>Physics of Fluids</i> , 2022, 34, .	4.0	10

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19	A non-linear study of optical solitons for Kaup-Newell equation without four-wave mixing. Journal of King Saud University - Science, 2022, 34, 102056.	3.5	27
20	Role of viscoelasticity on thermoelectromechanical system subjected to annular regions of cylinders in the existence of a uniform inclined magnetic field. European Physical Journal Plus, 2022, 137, .	2.6	8
21	Role of copper and alumina for heat transfer in hybrid nanofluid by using Fourier sine transform. Scientific Reports, 2022, 12, .	3.3	10
22	Thermal stratification of rotational second-grade fluid through fractional differential operators. Journal of Thermal Analysis and Calorimetry, 2021, 143, 3667-3676.	3.6	50
23	Thermodynamical analysis of heat transfer of gravity-driven fluid flow via fractional treatment: an analytical study. Journal of Thermal Analysis and Calorimetry, 2021, 144, 155-165.	3.6	45
24	Multiple soliton solutions with chiral nonlinear Schrödinger's equation in (2+1)-dimensions. European Journal of Mechanics, B/Fluids, 2021, 85, 68-75.	2.5	42
25	Numerical Study and Chaotic Analysis of Meminductor and Memcapacitor Through Fractional Differential Operator. Arabian Journal for Science and Engineering, 2021, 46, 857-871.	3.0	37
26	Role of fractal fractional derivative on ferromagnetic fluid via fractal Laplace transform: A first problem via fractal fractional differential operator. European Journal of Mechanics, B/Fluids, 2021, 85, 76-81.	2.5	52
27	Heat transfer in magnetohydrodynamic free convection flow of generalized ferrofluid with magnetite nanoparticles. Journal of Thermal Analysis and Calorimetry, 2021, 143, 3633-3642.	3.6	32
28	Role of single slip assumption on the viscoelastic liquid subject to non-integer differentiable operators. Mathematical Methods in the Applied Sciences, 2021, 44, 6005-6020.	2.3	17
29	A mathematical model for thermography on viscous fluid based on damped thermal flux. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2021, 76, 285-294.	1.5	26
30	A mathematical and parametric study of epidemiological smoking model: a deterministic stability and optimality for solutions. European Physical Journal Plus, 2021, 136, 1.	2.6	15
31	Dynamical aspects of smoking model with cravings to smoke. Nonlinear Engineering, 2021, 10, 91-108.	2.7	8
32	Fractional Modeling of Fin on non-Fourier Heat Conduction via Modern Fractional Differential Operators. Arabian Journal for Science and Engineering, 2021, 46, 2901-2910.	3.0	28
33	Extraction of optical solitons in birefringent fibers for Biswas-Arshed equation via extended trial equation method. Nonlinear Engineering, 2021, 10, 146-158.	2.7	20
34	Role of bi-order Atangana-Aguilar fractional differentiation on Drude model: an analytic study for distinct sources. Optical and Quantum Electronics, 2021, 53, 1.	3.3	16
35	Symbolic computation of Caudrey-Dodd-Gibbon equation subject to periodic trigonometric and hyperbolic symmetries. European Physical Journal Plus, 2021, 136, 1.	2.6	18
36	Thermography of ferromagnetic Walter's-B fluid through varying thermal stratification. South African Journal of Chemical Engineering, 2021, 36, 118-126.	2.4	10

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37	Super-criticism of electrochemical double layer capacitor for diffusion phenomenon: A fractional application of ultracapacitor. AEJ - Alexandria Engineering Journal, 2021, 60, 3361-3368.	6.4	9
38	Synchronization Via Fractalâ€“Fractional Differential Operators on Two-Mass Torsional Vibration System Consisting of Motor and Roller. Journal of Computational and Nonlinear Dynamics, 2021, 16, .	1.2	12
39	Exact solutions involving special functions for unsteady convective flow of magnetohydrodynamic second grade fluid with ramped conditions. Advances in Difference Equations, 2021, 2021, .	3.5	20
40	Thermal transmittance and thermo-magnetization of unsteady free convection viscous fluid through non-singular differentiations. Physica Scripta, 2021, 96, 015215.	2.5	19
41	Functional shape effects of nanoparticles on nanofluid suspended in ethylene glycol through Mittag-Leffler approach. Physica Scripta, 2021, 96, 025005.	2.5	25
42	Dynamical behavior of fractionalized simply supported beam: An application of fractional operators to Bernoulli-Euler theory. Nonlinear Engineering, 2021, 10, 231-239.	2.7	7
43	Computational and traveling wave analysis of Tzitzica and Dodd-Bullough-Mikhailov equations: An exact and analytical study. Nonlinear Engineering, 2021, 10, 272-281.	2.7	9
44	Role of pine wilt disease based on optimal control strategy at multiple scales: A case study of Korea. Journal of Biosciences, 2021, 46, 1.	1.1	3
45	An analytic study of bioheat transfer Pennes model via modern non-integers differential techniques. European Physical Journal Plus, 2021, 136, 1.	2.6	17
46	Thermal characteristics of longitudinal fin with Fourier and non-Fourier heat transfer by Fourier sine transforms. Scientific Reports, 2021, 11, 20993.	3.3	10
47	Role of shallow water waves generated by modified Camassa-Holm equation: A comparative analysis for traveling wave solutions. Nonlinear Engineering, 2021, 10, 385-394.	2.7	4
48	A comparative analysis of sulfate concentration via modern fractional derivatives: An industrial application to cooling system of power plant. Physica A: Statistical Mechanics and Its Applications, 2020, 541, 123306.	2.6	19
49	Role of non-integer and integer order differentiations on the relaxation phenomena of viscoelastic fluid. Physica Scripta, 2020, 95, 035228.	2.5	61
50	A fractional and analytic investigation of thermo-diffusion process on free convection flow: an application to surface modification technology. European Physical Journal Plus, 2020, 135, 1.	2.6	60
51	Fractional modeling and synchronization of ferrofluid on free convection flow with magnetolysis. European Physical Journal Plus, 2020, 135, 1.	2.6	21
52	A comparative analysis of electromechanical model of piezoelectric actuator through Caputoâ€“Fabrizio and Atanganaâ€“Baleanu fractional derivatives. Mathematical Methods in the Applied Sciences, 2020, 43, 9681-9691.	2.3	38
53	A scientific report of non-singular techniques on microring resonators: An application to optical technology. Optik, 2020, 224, 165696.	2.9	17
54	Porous effects on the fractional modeling of magnetohydrodynamic pulsatile flow: an analytic study via strong kernels. Journal of Thermal Analysis and Calorimetry, 2020, 146, 689.	3.6	26

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55	Influence in a Darcy's medium with heat production and radiation on MHD convection flow via modern fractional approach. <i>Journal of Materials Research and Technology</i> , 2020, 9, 10016-10030.	5.8	16
56	Thermophysical properties of Maxwell Nanofluids via fractional derivatives with regular kernel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, , 1.	3.6	22
57	Role of Gilsonâ€™Pickering equation for the different types of soliton solutions: a nonlinear analysis. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	45
58	Application of statistical method on thermal resistance and conductance during magnetization of fractionalized free convection flow. <i>International Communications in Heat and Mass Transfer</i> , 2020, 119, 104971.	5.6	28
59	USE OF ATANGANAâ€™BALEANU FRACTIONAL DERIVATIVE IN HELICAL FLOW OF A CIRCULAR PIPE. <i>Fractals</i> , 2020, 28, 2040049.	3.7	9
60	THE ROLE OF FOX-H FUNCTION IN ANALYTIC AND FRACTIONAL MODELING OF HELICITY OF CYLINDER: FRACTIONAL GENERALIZED BURGER FLUID. <i>Fractals</i> , 2020, 28, 2040050.	3.7	9
61	Role of Fourier sine transform on the dynamical model of tensioned carbon nanotubes with fractional operator. <i>Mathematical Methods in the Applied Sciences</i> , 2020, , .	2.3	20
62	A comparative study of convective fluid motion in rotating cavity via Atanganaâ€™Baleanu and Caputoâ€™Fabrizio fractalâ€™fractional differentiations. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	96
63	A mathematical study of natural convection flow through a channel with non-singular kernels: An application to transport phenomena. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 2269-2281.	6.4	34
64	Mathematical analysis of memristor through fractalâ€™fractional differential operators: A numerical study. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 6378-6395.	2.3	59
65	Electroosmotic slip flow of Oldroyd-B fluid between two plates with non-singular kernel. <i>Journal of Computational and Applied Mathematics</i> , 2020, 376, 112885.	2.0	36
66	Fractional characterization of fluid and synergistic effects of free convective flow in circular pipe through Hankel transform. <i>Physics of Fluids</i> , 2020, 32, .	4.0	35
67	Thermal investigation for electrified convection flow of Newtonian fluid subjected to damped thermal flux on a permeable medium. <i>Physica Scripta</i> , 2020, 95, 115003.	2.5	23
68	A Mathematical and Statistical Estimation of Potential Transmission and Severity of COVID-19: A Combined Study of Romania and Pakistan. <i>BioMed Research International</i> , 2020, 2020, 1-14.	1.9	10
69	Mathematical and numerical optimality of non-singular fractional approaches on free and forced linear oscillator. <i>Nonlinear Engineering</i> , 2020, 9, 449-456.	2.7	12
70	MHD flow of fractional Newtonian fluid embedded in a porous medium via Atangana-Baleanu fractional derivatives. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2020, 13, 377-387.	1.1	10
71	On the thermal analysis of magnetohydrodynamic Jeffery fluid via modern non integer order derivative. <i>Journal of King Saud University - Science</i> , 2019, 31, 973-979.	3.5	30
72	Novel technique of Atangana and Baleanu for heat dissipation in transmission line of electrical circuit. <i>Chaos, Solitons and Fractals</i> , 2019, 129, 40-45.	5.1	45

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73	Role of modern fractional derivatives in an armature-controlled DC servomotor. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	31
74	Functional application of Fourier sine transform in radiating gas flow with non-singular and non-local kernel. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	36
75	Thermal effects of magnetohydrodynamic micropolar fluid embedded in porous medium with Fourier sine transform technique. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	53
76	A comparison of heat and mass transfer on a Walter's-B fluid via Caputo-Fabrizio versus Atangana-Baleanu fractional derivatives using the Fox-H function. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	81
77	Chaos in a calcium oscillation model via Atangana-Baleanu operator with strong memory. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	50
78	Fractional Treatment of Vibration Equation Through Modern Analogy of Fractional Differentiations Using Integral Transforms. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2019, 43, 2307-2314.	1.5	15
79	Dual Fractional Analysis of Blood Alcohol Model Via Non-integer Order Derivatives. <i>Studies in Systems, Decision and Control</i> , 2019, , 69-79.	1.0	8
80	Analysis of De-Levie's model via modern fractional differentiations: An application to supercapacitor. <i>AEJ - Alexandria Engineering Journal</i> , 2019, 58, 1375-1384.	6.4	15
81	Enhancement of heat transfer rate of solar energy via rotating Jeffrey nanofluids using Caputo's-Fabrizio fractional operator: An application to solar energy. <i>Energy Reports</i> , 2019, 5, 41-49.	5.1	49
82	Thermodynamics of magnetohydrodynamic Brinkman fluid in porous medium. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 2295-2304.	3.6	36
83	Functionality of circuit via modern fractional differentiations. <i>Analog Integrated Circuits and Signal Processing</i> , 2019, 99, 11-21.	1.4	42
84	Dual thermal analysis of magnetohydrodynamic flow of nanofluids via modern approaches of Caputo's-Fabrizio and Atangana's-Baleanu fractional derivatives embedded in porous medium. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 2197-2207.	3.6	55
85	Heat Transfer on Fractionalized Micropolar Nanofluid over Oscillating Plate via Caputo-Fabrizio Fractional Operator. <i>Scientia Iranica</i> , 2019, .	0.4	6
86	Application of Atangana-Baleanu fractional derivative to convection flow of MHD Maxwell fluid in a porous medium over a vertical plate. <i>Mathematical Modelling of Natural Phenomena</i> , 2018, 13, 1.	2.4	120
87	Thermal analysis in Stokes's second problem of nanofluid: Applications in thermal engineering. <i>Case Studies in Thermal Engineering</i> , 2018, 12, 271-275.	5.7	37
88	A comparative mathematical analysis of RL and RC electrical circuits via Atangana-Baleanu and Caputo-Fabrizio fractional derivatives. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	87
89	A mathematical analysis of a circular pipe in rate type fluid via Hankel transform. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	41
90	Analytical Solutions of Fractional Walter's B Fluid with Applications. <i>Complexity</i> , 2018, 2018, 1-10.	1.6	53

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91	Analysis of Stokes' Second Problem for Nanofluids Using Modern Approach of Atangana-Baleanu Fractional Derivative. <i>Journal of Nanofluids</i> , 2018, 7, 738-747.	2.7	44
92	Application of modern approach of Caputo-Fabrizio fractional derivative to MHD second grade fluid through oscillating porous plate with heat and mass transfer. <i>International Journal of Advanced and Applied Sciences</i> , 2018, 5, 97-105.	0.4	14
93	Analysis of the heat and mass transfer in the MHD flow of a generalized Casson fluid in a porous space via non-integer order derivatives without a singular kernel. <i>Chinese Journal of Physics</i> , 2017, 55, 1583-1595.	3.9	60
94	An analytic study of molybdenum disulfide nanofluids using the modern approach of Atangana-Baleanu fractional derivatives. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	49
95	Atangana-Baleanu and Caputo Fabrizio Analysis of Fractional Derivatives for Heat and Mass Transfer of Second Grade Fluids over a Vertical Plate: A Comparative Study. <i>Entropy</i> , 2017, 19, 279.	2.2	72
96	Slippage of Magnetohydrodynamic Fractionalized Oldroyd-B Fluid in Porous Medium. <i>Progress in Fractional Differentiation and Applications</i> , 2017, 3, 69-80.	0.6	22
97	Helical flows of fractional viscoelastic fluid in a circular pipe. <i>International Journal of Advanced and Applied Sciences</i> , 2017, 4, 97-105.	0.4	31
98	Helices of fractionalized Maxwell fluid. <i>Nonlinear Engineering</i> , 2015, 4, .	2.7	8
99	Numerical and mathematical analysis of induction motor by means of AB fractal fractional differentiation actuated by drilling system. <i>Numerical Methods for Partial Differential Equations</i> , 0, , .	3.6	20
100	Dual fractional modeling of rate type fluid through non-local differentiation. <i>Numerical Methods for Partial Differential Equations</i> , 0, , .	3.6	16