

# Kottakkaran Sooppy Nisar

## List of Publications by Citations

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616  
papers

6,461  
citations

34  
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45  
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699  
ext. papers

10,197  
ext. citations

3.2  
avg, IF

7.51  
L-index

#	Paper	IF	Citations
616	A new Rabotnov fractional-exponential function-based fractional derivative for diffusion equation under external force. <i>Mathematical Methods in the Applied Sciences</i> , <b>2020</b> , 43, 4460	2.3	84
615	Optimal parameter design of fractional order control based INC-MPPT for PV system. <i>Solar Energy</i> , <b>2018</b> , 159, 650-664	6.8	83
614	A mathematical model of COVID-19 using fractional derivative: outbreak in India with dynamics of transmission and control. <i>Advances in Difference Equations</i> , <b>2020</b> , 2020, 373	3.6	72
613	Stability analysis and multiple solution of CuAl <sub>2</sub> O <sub>3</sub> /H <sub>2</sub> O nanofluid contains hybrid nanomaterials over a shrinking surface in the presence of viscous dissipation. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 421-432	5.5	69
612	Analysis of differential equations involving Caputo-Fabrizio fractional operator and its applications to reaction-diffusion equations. <i>Advances in Difference Equations</i> , <b>2019</b> , 2019,	3.6	62
611	An efficient numerical scheme for fractional model of HIV-1 infection of CD4+ T-cells with the effect of antiviral drug therapy. <i>AEJ - Alexandria Engineering Journal</i> , <b>2020</b> , 59, 2053-2064	6.1	62
610	Thermal expansion optimization in solar aircraft using tangent hyperbolic hybrid nanofluid: a solar thermal application. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 14, 985-1006	5.5	61
609	New results on nonlocal functional integro-differential equations via Hilfer fractional derivative. <i>AEJ - Alexandria Engineering Journal</i> , <b>2020</b> , 59, 2891-2899	6.1	60
608	Abundant solitary wave solutions to an extended nonlinear Schrödinger equation with conformable derivative using an efficient integration method. <i>Advances in Difference Equations</i> , <b>2020</b> , 2020,	3.6	60
607	Numerical solutions of nonlinear fractional model arising in the appearance of the strip patterns in two-dimensional systems. <i>Advances in Difference Equations</i> , <b>2019</b> , 2019,	3.6	56
606	Numerical simulation and stability analysis for the fractional-order dynamics of COVID-19. <i>Results in Physics</i> , <b>2021</b> , 20, 103722	3.7	55
605	Activation energy on MHD flow of titanium alloy (Ti6Al4V) nanoparticle along with a cross flow and streamwise direction with binary chemical reaction and non-linear radiation: Dual Solutions. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 188-199	5.5	53
604	Computational single-phase comparative study of a Williamson nanofluid in a parabolic trough solar collector via the Keller box method. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 10696-10718	4.5	53
603	Entropy Generation and Consequences of MHD in Darcy-Borchheimer Nanofluid Flow Bounded by Non-Linearly Stretching Surface. <i>Symmetry</i> , <b>2020</b> , 12, 652	2.7	50
602	Transmission dynamics of fractional order Typhoid fever model using Caputo-Fabrizio operator. <i>Chaos, Solitons and Fractals</i> , <b>2019</b> , 128, 355-365	9.3	49
601	Radiative heat transfer of second grade nanofluid flow past a porous flat surface: a single-phase mathematical model. <i>Physica Scripta</i> , <b>2021</b> , 96, 064006	2.6	49
600	On new approach of fractional derivative by Mittag-Leffler kernel to neutral integro-differential systems with impulsive conditions. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 139, 110012	9.3	48

599	Existence of solutions for some functional integrodifferential equations with nonlocal conditions. <i>Mathematical Methods in the Applied Sciences</i> , <b>2020</b> , 43, 10319-10331	2.3	48
598	Fractional modified Kawahara equation with Mittag-Leffler law. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 131, 109508	9.3	45
597	Evaluating the unsteady Casson nanofluid over a stretching sheet with solar thermal radiation: An optimal case study. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 26, 101160	5.6	44
596	Results on the existence of Hilfer fractional neutral evolution equations with infinite delay via measures of noncompactness. <i>Mathematical Methods in the Applied Sciences</i> , <b>2021</b> , 44, 1438-1455	2.3	43
595	A new model of fractional Casson fluid based on generalized Fick's and Fourier's laws together with heat and mass transfer. <i>AEJ - Alexandria Engineering Journal</i> , <b>2020</b> , 59, 2865-2876	6.1	42
594	Diagonal Eigenvalue Unity (DEU) code for spectral amplitude coding-optical code division multiple access. <i>Optical Fiber Technology</i> , <b>2013</b> , 19, 335-347	2.4	41
593	Single phase based study of Ag-Cu/EO Williamson hybrid nanofluid flow over a stretching surface with shape factor. <i>Physica Scripta</i> , <b>2021</b> , 96, 065202	2.6	41
592	Solutions to fractional neutral delay differential nonlocal systems. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 138, 109912	9.3	38
591	Jaya optimization algorithm for transient response and stability enhancement of a fractional-order PID based automatic voltage regulator system. <i>AEJ - Alexandria Engineering Journal</i> , <b>2020</b> , 59, 2429-2440	6.1	38
590	On generalized fractional integral inequalities for the monotone weighted Chebyshev functionals. <i>Advances in Difference Equations</i> , <b>2020</b> , 2020,	3.6	38
589	A note on approximate controllability of the Hilfer fractional neutral differential inclusions with infinite delay. <i>Mathematical Methods in the Applied Sciences</i> , <b>2021</b> , 44, 4428-4447	2.3	37
588	Computational frame work of Cattaneo-Christov heat flux effects on Engine Oil based Williamson hybrid nanofluids: A thermal case study. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 26, 101179	5.6	37
587	Novel exact solutions of the fractional Bogoyavlensky-Konopelchenko equation involving the Atangana-Baleanu-Riemann derivative. <i>AEJ - Alexandria Engineering Journal</i> , <b>2020</b> , 59, 2957-2967	6.1	36
586	MHD Slip Flow of Casson Fluid along a Nonlinear Permeable Stretching Cylinder Saturated in a Porous Medium with Chemical Reaction, Viscous Dissipation, and Heat Generation/Absorption. <i>Symmetry</i> , <b>2019</b> , 11, 531	2.7	35
585	MHD Thin Film Flow and Thermal Analysis of Blood with CNTs Nanofluid. <i>Coatings</i> , <b>2019</b> , 9, 175	2.9	35
584	A comparison study of two modified analytical approach for the solution of nonlinear fractional shallow water equations in fluid flow. <i>AIMS Mathematics</i> , <b>2020</b> , 5, 3035-3055	2.2	35
583	Novel technique of Atangana and Baleanu for heat dissipation in transmission line of electrical circuit. <i>Chaos, Solitons and Fractals</i> , <b>2019</b> , 129, 40-45	9.3	34
582	Emphasis on unsteady dynamics of bioconvective hybrid nanofluid flow over an upward/downward moving rotating disk. <i>Numerical Methods for Partial Differential Equations</i> , <b>2020</b> ,	2.5	34

581	Mathematical analysis of SIRD model of COVID-19 with Caputo fractional derivative based on real data. <i>Results in Physics</i> , <b>2021</b> , 21, 103772	3.7	34
580	Existence of solutions of non-autonomous fractional differential equations with integral impulse condition. <i>Advances in Difference Equations</i> , <b>2020</b> , 2020,	3.6	33
579	Operators constructed by means of q-Lagrange polynomials and A-statistical approximation. <i>Applied Mathematics and Computation</i> , <b>2013</b> , 219, 6911-6918	2.7	32
578	A report on COVID-19 epidemic in Pakistan using SEIR fractional model. <i>Scientific Reports</i> , <b>2020</b> , 10, 222689	3.9	32
577	Certain inequalities via generalized proportional Hadamard fractional integral operators. <i>Advances in Difference Equations</i> , <b>2019</b> , 2019,	3.6	32
576	A discussion on the approximate controllability of Hilfer fractional neutral stochastic integro-differential systems. <i>Chaos, Solitons and Fractals</i> , <b>2021</b> , 142, 110472	9.3	32
575	Thermal examination of renewable solar energy in parabolic trough solar collector utilizing Maxwell nanofluid: A noble case study. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 27, 101258	5.6	32
574	The Minkowski inequalities via generalized proportional fractional integral operators. <i>Advances in Difference Equations</i> , <b>2019</b> , 2019,	3.6	31
573	Numerical Solution of Casson Nanofluid Flow Over a Non-linear Inclined Surface With Soret and Dufour Effects by Keller-Box Method. <i>Frontiers in Physics</i> , <b>2019</b> , 7,	3.9	31
572	Analysis and Dynamics of Fractional Order Mathematical Model of COVID-19 in Nigeria Using Atangana-Baleanu Operator. <i>Computers, Materials and Continua</i> , <b>2021</b> , 66, 1823-1848	3.9	31
571	Certain Chebyshev-Type Inequalities Involving Fractional Conformable Integral Operators. <i>Mathematics</i> , <b>2019</b> , 7, 364	2.3	30
570	Mathematical model to assess the imposition of lockdown during COVID-19 pandemic. <i>Results in Physics</i> , <b>2021</b> , 20, 103716	3.7	30
569	Numerical simulation of simulate an anomalous solute transport model via local meshless method. <i>AEJ - Alexandria Engineering Journal</i> , <b>2020</b> , 59, 2827-2838	6.1	29
568	Mathematical modeling of the COVID-19 pandemic with intervention strategies. <i>Results in Physics</i> , <b>2021</b> , 25, 104285	3.7	29
567	Heat transfer analysis in sodium alginate based nanofluid using MoS2 nanoparticles: Atangana-Baleanu fractional model. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 130, 109445	9.3	28
566	Ohmic heating effects and entropy generation for nanofluidic system of Ree-Eyring fluid: Intelligent computing paradigm. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 129, 105683	5.8	27
565	Some new inequalities of the GrBs type for conformable fractional integrals. <i>AIMS Mathematics</i> , <b>2018</b> , 3, 575-583	2.2	27
564	Results on approximate controllability of Sobolev-type fractional neutral differential inclusions of Clarke subdifferential type. <i>Chaos, Solitons and Fractals</i> , <b>2021</b> , 151, 111264	9.3	27

563	Triple Local Similarity Solutions of Darcy-Forchheimer Magnetohydrodynamic (MHD) Flow of Micropolar Nanofluid Over an Exponential Shrinking Surface: Stability Analysis. <i>Coatings</i> , <b>2019</b> , 9, 527	2.9	26
562	Chirped solitons in discrete electrical transmission line. <i>Results in Physics</i> , <b>2020</b> , 18, 103188	3.7	26
561	Generalized fractional kinetic equations involving generalized Struve function of the first kind. <i>Journal of King Saud University - Science</i> , <b>2016</b> , 28, 167-171	3.6	26
560	Novel multiple soliton solutions for some nonlinear PDEs via multiple Exp-function method. <i>Results in Physics</i> , <b>2021</b> , 21, 103769	3.7	26
559	Some Inequalities of $\mathbb{B}y\mathbb{B}v$ Type for Conformable $k$ -Fractional Integral Operators. <i>Symmetry</i> , <b>2018</b> , 10, 614	2.7	26
558	Thermal growth in solar water pump using Prandtl-Eyring hybrid nanofluid: a solar energy application. <i>Scientific Reports</i> , <b>2021</b> , 11, 18704	4.9	26
557	Stability Analysis and Dual Solutions of Micropolar Nanofluid over the Inclined Stretching/Shrinking Surface with Convective Boundary Condition. <i>Symmetry</i> , <b>2020</b> , 12, 74	2.7	25
556	On the Cattaneo-Christov Heat Flux Model and OHAM Analysis for Three Different Types of Nanofluids. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 886	2.6	25
555	Chebyshev type inequalities via generalized fractional conformable integrals. <i>Journal of Inequalities and Applications</i> , <b>2019</b> , 2019,	2.1	25
554	A Time Fractional Model of Generalized Couette Flow of Couple Stress Nanofluid With Heat and Mass Transfer: Applications in Engine Oil. <i>IEEE Access</i> , <b>2020</b> , 8, 146944-146966	3.5	25
553	Keller box study for inclined magnetically driven Casson nanofluid over a stretching sheet: single phase model. <i>Physica Scripta</i> , <b>2021</b> , 96, 065201	2.6	25
552	Prediction studies of the epidemic peak of coronavirus disease in Brazil via new generalised Caputo type fractional derivatives. <i>AEJ - Alexandria Engineering Journal</i> , <b>2021</b> , 60, 3189-3204	6.1	25
551	Intelligent computing Levenberg Marquardt approach for entropy optimized single-phase comparative study of second grade nanofluidic system. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 127, 105544	5.8	25
550	Some inequalities via fractional conformable integral operators. <i>Journal of Inequalities and Applications</i> , <b>2019</b> , 2019,	2.1	24
549	MHD flow of a generalized Casson fluid with Newtonian heating: A fractional model with Mittag-Leffler memory. <i>AEJ - Alexandria Engineering Journal</i> , <b>2020</b> , 59, 3049-3059	6.1	24
548	An efficient implicit regularized Lagrangian twin support vector regression. <i>Applied Intelligence</i> , <b>2016</b> , 44, 831-848	4.9	24
547	Dual similarity solutions of MHD stagnation point flow of Casson fluid with effect of thermal radiation and viscous dissipation: stability analysis. <i>Scientific Reports</i> , <b>2020</b> , 10, 15405	4.9	24
546	Mathematical analysis and simulation of a stochastic COVID-19 $LQ$ jump model with isolation strategy. <i>Results in Physics</i> , <b>2021</b> , 23, 103994	3.7	24

545	An analysis of controllability results for nonlinear Hilfer neutral fractional derivatives with non-dense domain. <i>Chaos, Solitons and Fractals</i> , <b>2021</b> , 146, 110915	9.3	24
544	A new study on existence and uniqueness of nonlocal fractional delay differential systems of order 1. <i>Numerical Methods for Partial Differential Equations</i> , <b>2021</b> , 37, 949-961	2.5	24
543	Comprehensive study of thermophoretic diffusion deposition velocity effect on heat and mass transfer of ferromagnetic fluid flow along a stretching cylinder. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , <b>2021</b> , 235, 1479-1489	1.5	24
542	Some inequalities involving the extended gamma function and the Kummer confluent hypergeometric ${}_1F_1$ -function. <i>Journal of Inequalities and Applications</i> , <b>2018</b> , 2018, 135	2.1	24
541	Dual Solutions and Stability Analysis of Magnetized Hybrid Nanofluid with Joule Heating and Multiple Slip Conditions. <i>Processes</i> , <b>2020</b> , 8, 332	2.9	23
540	Mathematical Analysis of Entropy Generation in the Flow of Viscoelastic Nanofluid through an Annular Region of Two Asymmetric Annuli Having Flexible Surfaces. <i>Coatings</i> , <b>2020</b> , 10, 213	2.9	23
539	Fuzzy Fractional-Order PID Controller for Fractional Model of Pneumatic Pressure System. <i>Mathematical Problems in Engineering</i> , <b>2018</b> , 2018, 1-9	1.1	23
538	Role of modern fractional derivatives in an armature-controlled DC servomotor. <i>European Physical Journal Plus</i> , <b>2019</b> , 134, 1	3.1	23
537	Magneto Marangoni flow of $\text{Al}_2\text{O}_3$ nanofluids with thermal radiation and heat source/sink effects over a stretching surface embedded in porous medium. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 23, 100802	5.6	23
536	Results on approximate controllability results for second-order Sobolev-type impulsive neutral differential evolution inclusions with infinite delay. <i>Numerical Methods for Partial Differential Equations</i> , <b>2021</b> , 37, 1200-1221	2.5	23
535	A note on the approximate controllability of Sobolev type fractional stochastic integro-differential delay inclusions with order 1. <i>Mathematics and Computers in Simulation</i> , <b>2021</b> , 190, 1003-1026	3.3	23
534	Numerical investigation for the fractional nonlinear space-time telegraph equation via the trigonometric Quintic B-spline scheme. <i>Mathematical Methods in the Applied Sciences</i> , <b>2021</b> , 44, 4598-4606	2.3	22
533	Some new inequalities for $(k,s)$ -fractional integrals. <i>Journal of Nonlinear Science and Applications</i> , <b>2016</b> , 09, 5374-5381	1.9	21
532	Effects of carbon nanotubes on magnetohydrodynamic flow of methanol based nanofluids via Atangana-Baleanu and Caputo-Fabrizio fractional derivatives. <i>Thermal Science</i> , <b>2019</b> , 23, 883-898	1.2	21
531	Mathematical Analysis of Novel Coronavirus (2019-nCov) Delay Pandemic Model. <i>Computers, Materials and Continua</i> , <b>2020</b> , 64, 1401-1414	3.9	21
530	Insight into kerosene conveying CNTs and $\text{Fe}_3\text{O}_4$ nanoparticles through a porous medium: significance of Coriolis force and entropy generation. <i>Physica Scripta</i> , <b>2021</b> , 96, 055705	2.6	21
529	Heat Transfer Analysis of MHD Rotating Flow of $\text{Fe}_3\text{O}_4$ Nanoparticles Through a Stretchable Surface. <i>Communications in Theoretical Physics</i> ,	2.4	21
528	Combined effect of using porous media and nano-particle on melting performance of PCM filled enclosure with triangular double fins. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 25, 100939	5.6	21

527	Numerical analysis of nonlinear mixed convective MHD chemically reacting flow of Prandtl-Eyring nanofluids in the presence of activation energy and Joule heating. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 145, 495-505	4.1	21
526	Thermal/ exergy and economic efficiency analysis of circumferentially corrugated helical tube with constant wall temperature. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 23, 100803	5.6	21
525	Bounds of Generalized Proportional Fractional Integrals in General Form via Convex Functions and Their Applications. <i>Mathematics</i> , <b>2020</b> , 8, 113	2.3	20
524	Novel approach to the analysis of fifth-order weakly nonlocal fractional Schrödinger equation with Caputo derivative. <i>Results in Physics</i> , <b>2021</b> , 31, 104958	3.7	20
523	Heat Transfer in MHD Flow of Maxwell Fluid via Fractional Cattaneo-Friedrich Model: A Finite Difference Approach. <i>Computers, Materials and Continua</i> , <b>2020</b> , 65, 1959-1973	3.9	20
522	Lie analysis, conservation laws and travelling wave structures of nonlinear Bogoyavlenskii-Radomtsev-Betviashvili equation. <i>Results in Physics</i> , <b>2020</b> , 19, 103492	3.7	20
521	Numerical simulation for bioconvection effects on MHD flow of Oldroyd-B nanofluids in a rotating frame stretching horizontally. <i>Mathematics and Computers in Simulation</i> , <b>2020</b> , 178, 166-182	3.3	19
520	Lie Symmetry Analysis, Explicit Solutions and Conservation Laws of a Spatially Two-Dimensional Burgers-Buxley Equation. <i>Symmetry</i> , <b>2020</b> , 12, 170	2.7	19
519	Enhanced Heat Transfer in Moderately Ionized Liquid Due to Hybrid MoS <sub>2</sub> /SiO <sub>2</sub> Nanofluids Exposed by Nonlinear Radiation: Stability Analysis. <i>Crystals</i> , <b>2020</b> , 10, 142	2.3	19
518	A novel analytical technique to obtain the solitary solutions for nonlinear evolution equation of fractional order. <i>Advances in Difference Equations</i> , <b>2020</b> , 2020,	3.6	19
517	Comprehensive analysis on copper-iron (II, III)/oxide-engine oil Casson nanofluid flowing and thermal features in parabolic trough solar collector. <i>Journal of Taibah University for Science</i> , <b>2021</b> , 15, 619-636	3	19
516	A Mathematical Model of COVID-19 Using Fractional Derivative: Outbreak in India with Dynamics of Transmission and Control		19
515	Lie similarity analysis of MHD flow past a stretching surface embedded in porous medium along with imposed heat source/sink and variable viscosity. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 10045-10053	5.5	19
514	Study on heat transfer aspects of solar aircraft wings for the case of Reiner-Philippoff hybrid nanofluid past a parabolic trough: Keller box method. <i>Physica Scripta</i> , <b>2021</b> , 96, 095220	2.6	19
513	Effect of Viscous Dissipation in Heat Transfer of MHD Flow of Micropolar Fluid Partial Slip Conditions: Dual Solutions and Stability Analysis. <i>Energies</i> , <b>2019</b> , 12, 4617	3.1	19
512	A novel case study of thermal and streamline analysis in a grooved enclosure filled with (Ag-MgO/Water) hybrid nanofluid: Galerkin FEM. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 28, 101372	5.6	19
511	Multiple Fractional Solutions for Magnetic Bio-Nanofluid Using Oldroyd-B Model in a Porous Medium with Ramped Wall Heating and Variable Velocity. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3886	2.6	18
510	Micropolar fluid past a convectively heated surface embedded with nth order chemical reaction and heat source/sink. <i>Physica Scripta</i> , <b>2021</b> , 96, 104010	2.6	18

509	Results concerning to approximate controllability of non-densely defined Sobolev-type Hilfer fractional neutral delay differential system. <i>Mathematical Methods in the Applied Sciences</i> , <b>2021</b> , 44, 136153	2.3	18
508	Image Interpolation Using a Rational Bi-Cubic Ball. <i>Mathematics</i> , <b>2019</b> , 7, 1045	2.3	18
507	A numerical frame work of magnetically driven Powell-Eyring nanofluid using single phase model. <i>Scientific Reports</i> , <b>2021</b> , 11, 16500	4.9	18
506	Finite element method visualization about heat transfer analysis of Newtonian material in triangular cavity with square cylinder. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 4904-4918	5.5	17
505	Symmetric MHD Channel Flow of Nonlocal Fractional Model of BTF Containing Hybrid Nanoparticles. <i>Symmetry</i> , <b>2020</b> , 12, 663	2.7	17
504	Marichev-Saigo-Maeda Fractional Integration Operators Involving Generalized Bessel Functions. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-11	1.1	17
503	Magnetized Flow of Cu + Al <sub>2</sub> O <sub>3</sub> + H <sub>2</sub> O Hybrid Nanofluid in Porous Medium: Analysis of Duality and Stability. <i>Symmetry</i> , <b>2020</b> , 12, 1513	2.7	17
502	Numerical Solution of the Boundary Value Problems Arising in Magnetic Fields and Cylindrical Shells. <i>Mathematics</i> , <b>2019</b> , 7, 508	2.3	17
501	Mixed Convection in MHD Water-Based Molybdenum Disulfide-Graphene Oxide Hybrid Nanofluid through an Upright Cylinder with Shape Factor. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1723	3	16
500	Fractional Model of Couple Stress Fluid for Generalized Couette Flow: A Comparative Analysis of AtanganaBaleanu and CaputoFabrizio Fractional Derivatives. <i>IEEE Access</i> , <b>2019</b> , 7, 88643-88655	3.5	16
499	Generalized k-Mittag-Leffler function and its composition with pathway integral operators. <i>Journal of Nonlinear Science and Applications</i> , <b>2016</b> , 09, 3519-3526	1.9	16
498	Some inequalities of the GrBs type for conformable $\{\varvec{k}\}$ -fractional integral operators. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , <b>2020</b> , 114, 1	1.6	16
497	Splines solutions of boundary value problems that arises in sculpturing electrical process of motors with two rotating mechanism circuit. <i>Physica Scripta</i> , <b>2021</b> , 96, 104001	2.6	16
496	Simulation analysis of MHD hybrid Cu?Al <sub>2</sub> O <sub>3</sub> /H <sub>2</sub> O nanofluid flow with heat generation through a porous media. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 19165	4.5	16
495	Second law efficiency analysis of air injection into inner tube of double tube heat exchanger. <i>AEJ - Alexandria Engineering Journal</i> , <b>2021</b> , 60, 1465-1476	6.1	16
494	AtanganaBaleanu fractional model for the flow of Jeffrey nanofluid with diffusion-thermo effects: applications in engine oil. <i>Advances in Difference Equations</i> , <b>2019</b> , 2019,	3.6	15
493	Fractional Order Modeling the Gemini Virus in Capsicum annum with Optimal Control. <i>Fractal and Fractional</i> , <b>2022</b> , 6, 61	3	15
492	Implementing renewable solar energy in presence of Maxwell nanofluid in parabolic trough solar collector: a computational study. <i>Waves in Random and Complex Media</i> , 1-32	1.9	15



491	Time fractional analysis of electro-osmotic flow of Walters-B fluid with time-dependent temperature and concentration. <i>AEJ - Alexandria Engineering Journal</i> , <b>2020</b> , 59, 25-38	6.1	15
490	Numerical Simulation of Mixed Convection Squeezing Flow of a Hybrid Nanofluid Containing Magnetized Ferroparticles in 50%:50% of Ethylene Glycol-Water Mixture Base Fluids Between Two Disks With the Presence of a Non-linear Thermal Radiation Heat Flux. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 792	5	15
489	Mathematical model for spreading of COVID-19 virus with the Mittag-Leffler kernel. <i>Numerical Methods for Partial Differential Equations</i> , <b>2020</b> ,	2.5	15
488	Magneto-hydrodynamics (MHD) flow analysis with mixed convection moves through a stretching surface. <i>AIP Advances</i> , <b>2021</b> , 11, 045001	1.5	15
487	Caputo-Fabrizio fractional derivatives modeling of transient MHD Brinkman nanoliquid: Applications in food technology. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 131, 109489	9.3	15
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