Dumitru Baleanu

List of Publications by Year in Descending Order

1,283 papers	34,412 citations	85 h-index	129 g-index
1,350 ext. papers	42,211 ext. citations	2.8 avg, IF	8.86 L-index

#	Paper	IF	Citations
1283	Computational simulation of cross-flow of Williamson fluid over a porous shrinking/stretching surface comprising hybrid nanofluid and thermal radiation. *AIMS Mathematics*, **2022**, 7, 6489-6515	2.2	5
1282	Fractional Modeling of Viscous Fluid over a Moveable Inclined Plate Subject to Exponential Heating with Singular and Non-Singular Kernels. *Mathematical and Computational Applications*, **2022**, 27, 8	1	3
1281	A delayed plant disease model with Caputo fractional derivatives. **2022**, 2022, 11		5
1280	Boger nanofluid: significance of Coriolis and Lorentz forces on dynamics of rotating fluid subject to suction/injection via finite element simulation.. *Scientific Reports*, **2022**, 12, 1612	4.9	3
1279	Phase change material dependency on solar power plant building through examination of energy-saving. *Journal of Energy Storage*, **2022**, 45, 103718	7.8	1
1278	On Transformation Involving Basic Analogue to the Aleph-Function of Two Variables. *Fractal and Fractional*, **2022**, 6, 71	3	0
1277	HermiteHadamard Type Inequalities for Interval-Valued Preinvex Functions via Fractional Integral Operators. *International Journal of Computational Intelligence Systems*, **2022**, 15, 1	3.4	6
1276	Fractional-order dynamics of human papillomavirus. *Results in Physics*, **2022**, 34, 105281	3.7	1
1275	The SharmaTassoOlverBurgers equation: its conservation laws and kink solitons. *Communications in Theoretical Physics*, **2022**, 74, 025001	2.4	2
1274	Projectile motion using three parameter Mittag-Leffler function calculus. *Mathematics and Computers in Simulation*, **2022**, 195, 22-30	3.3	0
1273	Numerical analysis of Atangana-Baleanu fractional model to understand the propagation of a novel corona virus pandemic. *AEJ - Alexandria Engineering Journal*, **2022**, 61, 7007-7027	6.1	5
1272	A novel analytical algorithm for generalized fifth-order time-fractional nonlinear evolution equations with conformable time derivative arising in shallow water waves. *AEJ - Alexandria Engineering Journal*, **2022**, 61, 5753-5769	6.1	9
1271	Design, Analysis and Comparison of a Nonstandard Computational Method for the Solution of a General Stochastic Fractional Epidemic Model. *Axioms*, **2022**, 11, 10	1.6	0
1270	Existence of local and global solutions to fractional order fuzzy delay differential equation with non-instantaneous impulses. *AIMS Mathematics*, **2022**, 7, 2348-2369	2.2	2
1269	Rouge Wave, W-Shaped, Bright, and Dark Soliton Solutions for a Generalized Quasi-1D BoseEinstein Condensate System with Local M-Derivative. *Brazilian Journal of Physics*, **2022**, 52, 1	1.2	0
1268	Odd-order differential equations with deviating arguments: asymptomatic behavior and oscillation.. *Mathematical Biosciences and Engineering*, **2022**, 19, 1411-1425	2.1	1
1267	Effect of laser welding parameters on the temperature distribution, microstructure and mechanical properties of dissimilar weld joint of Inconel 625 and stainless steel 304. *International Communications in Heat and Mass Transfer*, **2022**, 131, 105859	5.8	1

1266	The investigation of Fe3O4 atomic aggregation in a nanochannel in the presence of magnetic field: Effects of nanoparticles distance center of mass, temperature and total energy via molecular dynamics approach. *Journal of Molecular Liquids*, **2022**, 348, 118400	6	2
1265	FMNSICS: Fractional Meyer neuro-swarm intelligent computing solver for nonlinear fractional Lane–Emden systems. *Neural Computing and Applications*, **2022**, 34, 4193	4.8	4
1264	The effect of sedimentation phenomenon of the additives silver nano particles on water pool boiling heat transfer coefficient: A comprehensive experimental study. *Journal of Molecular Liquids*, **2022**, 345, 117891	6	0
1263	Advanced Analysis of Local Fractional Calculus Applied to the Rice Theory in Fractal Fracture Mechanics. *Studies in Systems, Decision and Control*, **2022**, 105-133	0.8	1
1262	Lie Group Theory for Nonlinear Fractional K(m, n) Type Equation with Variable Coefficients. *Studies in Systems, Decision and Control*, **2022**, 207-227	0.8	1
1261	On soliton solutions of fractional-order nonlinear model appears in physical sciences. *AIMS Mathematics*, **2022**, 7, 7421-7440	2.2	4
1260	Nonlinear higher order fractional terminal value problems. *AIMS Mathematics*, **2022**, 7, 7489-7506	2.2	4
1259	A novel high accurate numerical approach for the time-delay optimal control problems with delay on both state and control variables. *AIMS Mathematics*, **2022**, 7, 9789-9808	2.2	0
1258	Analysing discrete fractional operators with exponential kernel for positivity in lower boundedness. *AIMS Mathematics*, **2022**, 7, 10387-10399	2.2	0
1257	Further studies on ordinary differential equations involving the $ M $-fractional derivative. *AIMS Mathematics*, **2022**, 7, 10977-10993	2.2	0
1256	Mellin transform for fractional integrals with general analytic kernel. *AIMS Mathematics*, **2022**, 7, 9443-9462	2.2	
1255	Non-instantaneous impulsive fractional-order delay differential systems with Mittag-Leffler kernel. *AIMS Mathematics*, **2022**, 7, 9353-9372	2.2	2
1254	New classifications of monotonicity investigation for discrete operators with Mittag-Leffler kernel.. *Mathematical Biosciences and Engineering*, **2022**, 19, 4062-4074	2.1	5
1253	New approach on controllability of Hilfer fractional derivatives with nondense domain. *AIMS Mathematics*, **2022**, 7, 10079-10095	2.2	2
1252	On a novel fuzzy fractional retarded delay epidemic model. *AIMS Mathematics*, **2022**, 7, 10122-10142	2.2	1
1251	Design of neuro-swarming computational solver for the fractional Bagley-Torvik mathematical model.. *European Physical Journal Plus*, **2022**, 137, 245	3.1	2
1250	Optical solitons of a high-order nonlinear Schrödinger equation involving nonlinear dispersions and Kerr effect. *Optical and Quantum Electronics*, **2022**, 54, 1	2.4	3
1249	Lie Symmetries, Closed-Form Solutions, and Various Dynamical Profiles of Solitons for the Variable Coefficient (2+1)-Dimensional KP Equations. *Symmetry*, **2022**, 14, 597	2.7	9

1248	Propagation of traveling wave solutions to the Vakhnenko-Parkes dynamical equation via modified mathematical methods. *Applied Mathematics*, **2022**, 37, 21-34	0.7	0
1247	Hidden Markov Model and multifractal method-based predictive quantization complexity models vis-Evis the differential prognosis and differentiation of Multiple Sclerosis subgroups. *Knowledge-Based Systems*, **2022**, 108694	7.3	0
1246	The performance of a numerical scheme on the variable-order time-fractional advection-reaction-subdiffusion equations. *Applied Numerical Mathematics*, **2022**, 178, 25-40	2.5	1
1245	On a new and generalized fractional model for a real cholera outbreak. *AEJ - Alexandria Engineering Journal*, **2022**, 61, 9175-9186	6.1	14
1244	Lucas Wavelet Scheme for Fractional BagleyTorvik Equations: GaussJacobi Approach. *International Journal of Applied and Computational Mathematics*, **2022**, 8, 1	1.3	1
1243	Designing a Matrix Collocation Method for Fractional Delay Integro-Differential Equations with Weakly Singular Kernels Based on VietaFibonacci Polynomials. *Fractal and Fractional*, **2022**, 6, 2	3	3
1242	A variety of dynamic $ alpha $-conformable Steffensen-type inequality on a time scale measure space. *AIMS Mathematics*, **2022**, 7, 11382-11398	2.2	2
1241	Global stability of local fractional HFon-Lozi map using fixed point theory. *AIMS Mathematics*, **2022**, 7, 11399-11416	2.2	2
1240	Two-Dimensional Nanofluid Due to an Accelerated Plate with Viscosity Ratio. *International Journal of Applied and Computational Mathematics*, **2022**, 8, 1	1.3	
1239	Estimates for Coefficients of Bi-Univalent Functions Associated with a Fractional q-Difference Operator. *Symmetry*, **2022**, 14, 879	2.7	1
1238	Convoluted fractional differentials of various forms utilizing the generalized Raina's function description with applications. *Journal of Taibah University for Science*, **2022**, 16, 432-441	3	0
1237	Analytical results for positivity of discrete fractional operators with approximation of the domain of solutions. *Mathematical Biosciences and Engineering*, **2022**, 19, 7272-7283	2.1	
1236	Finite Time Stability of Fractional Order Systems of Neutral Type. *Fractal and Fractional*, **2022**, 6, 289	3	3
1235	Bennett-Leindler nabla type inequalities via conformable fractional derivatives on time scales. *AIMS Mathematics*, **2022**, 7, 14099-14116	2.2	
1234	Analysis and some applications of a regularized Hilfer fractional derivative. *Journal of Computational and Applied Mathematics*, **2022**, 114476	2.4	6
1233	Inelastic soliton wave solutions with different geometrical structures to fractional order nonlinear evolution equations. *Results in Physics*, **2022**, 38, 105661	3.7	2
1232	Computational fractional-order calculus and classical calculus AI for comparative differentiability prediction analyses of complex-systems-grounded paradigm **2022**, 149-168		
1231	Magnetic charged particles of optical spherical antiferromagnetic model with fractional system. *Open Physics*, **2021**, 19, 590-601	1.3	

1230	Soliton solutions for non-linear Kudryashov's equation via three integrating schemes. *Thermal Science*, **2021**, 25, 157-163	1.2	5
1229	The improved thermal efficiency of Prandtl-Eyring hybrid nanofluid via classical Keller box technique. *Scientific Reports*, **2021**, 11, 23535	4.9	7
1228	Entropy generation and induced magnetic field in pseudoplastic nanofluid flow near a stagnant point. *Scientific Reports*, **2021**, 11, 23736	4.9	4
1227	A Numerical Simulation on the Effect of Vaccination and Treatments for the Fractional Hepatitis B Model. *Journal of Computational and Nonlinear Dynamics*, **2021**, 16,	1.4	12
1226	An Efficient Technique for Fractional Coupled System Arisen in Magnetothermoelasticity With Rotation Using Mittag□effler Kernel. *Journal of Computational and Nonlinear Dynamics*, **2021**, 16,	1.4	9
1225	A New Three-Step Root-Finding Numerical Method and Its Fractal Global Behavior. *Fractal and Fractional*, **2021**, 5, 204	3	2
1224	Soliton structures of a nonlinear Schr□inger equation involving the parabolic law. *Optical and Quantum Electronics*, **2021**, 53, 1	2.4	0
1223	A new and general fractional Lagrangian approach: A capacitor microphone case study. *Results in Physics*, **2021**, 31, 104950	3.7	35
1222	Flow and heat transport phenomenon for dynamics of Jeffrey nanofluid past stretchable sheet subject to Lorentz force and dissipation effects. *Scientific Reports*, **2021**, 11, 22924	4.9	8
1221	On new general versions of Hermite□Hadamard type integral inequalities via fractional integral operators with Mittag-Leffler kernel. *Journal of Inequalities and Applications*, **2021**, 2021,	2.1	1
1220	The Molecular Dynamics study of atomic structure behavior of LL-37 peptide as the antimicrobial agent, derived from the human cathelicidin, inside a nano domain filled by the aqueous environment. *Journal of Molecular Liquids*, **2021**, 349, 118187	6	0
1219	Design of Gudermannian Neuroswarming to solve the singular Emden-Fowler nonlinear model numerically. *Nonlinear Dynamics*, **2021**, 106, 1-16	5	2
1218	Fractional heat equation optimized by a chaotic function. *Thermal Science*, **2021**, 25, 173-178	1.2	1
1217	Bright, dark, and singular optical soliton solutions for perturbed Gerdjikov-Ivanov equation. *Thermal Science*, **2021**, 25, 151-156	1.2	5
1216	Global optimization and applications to a variational inequality problem. *Open Mathematics*, **2021**, 19, 1349-1358	0.8	
1215	Conformable differential operators for meromorphically multivalent functions. *Concrete Operators*, **2021**, 8, 150-157	0.4	1
1214	Study of electro-osmotic nanofluid transport for scraped surface heat exchanger with heat transfer phenomenon. *Thermal Science*, **2021**, 25, 213-218	1.2	0
1213	Fractional model of second grade fluid induced by generalized thermal and molecular fluxes with constant proportional caputo. *Thermal Science*, **2021**, 25, 207-212	1.2	3

1212	Exact solutions of stochastic KdV equation with conformable derivatives in white noise environment. *Thermal Science*, **2021**, 25, 143-149	1.2	12
1211	Investigation of electroosmosis flow of copper nanoparticles with heat transfer due to metachronal rhythm. *Thermal Science*, **2021**, 25, 193-198	1.2	0
1210	Prabhakar fractional derivative and its applications in the transport phenomena containing nanoparticles. *Thermal Science*, **2021**, 25, 411-416	1.2	21
1209	Studying heat conduction in a sphere considering hybrid fractional derivative operator. *Thermal Science*, **2021**, 332-332	1.2	1
1208	Modeling the transmission dynamics of delayed pneumonia-like diseases with a sensitivity of parameters. *Advances in Difference Equations*, **2021**, 2021, 468	3.6	0
1207	Mathematical analysis for the effect of voluntary vaccination on the propagation of Corona virus pandemic. *Results in Physics*, **2021**, 31, 104917	3.7	5
1206	Approximating Real-Life BVPs via Chebyshev Polynomials：First Derivative Pseudo-Galerkin Method. *Fractal and Fractional*, **2021**, 5, 165	3	4
1205	On the analysis of an analytical approach for fractional Caudrey-Dodd-Gibbon equations. *AEJ - Alexandria Engineering Journal*, **2021**, 61, 5073-5073	6.1	9
1204	Green's function and an inequality of Lyapunov-type for conformable boundary value problem. *Novi Sad Journal of Mathematics*, **2021**, 51, 123-131	0.3	1
1203	Fractional Propagation of Short Light Pulses in Monomode Optical Fibers: Comparison of Beta Derivative and Truncated M- Fractional Derivative. *Journal of Computational and Nonlinear Dynamics*, **2021**,	1.4	2
1202	Protracted study on a real physical phenomenon generated by media inhomogeneities. *Results in Physics*, **2021**, 31, 104933	3.7	9
1201	Water molecules adsorption by a porous carbon matrix in the presence of NaCl impurities using molecular dynamic simulation. *Journal of Molecular Liquids*, **2021**, 347, 117998	6	0
1200	Hyers-Ulam-Mittag-Leffler stability of fractional differential equations with two caputo derivative using fractional fourier transform. *AIMS Mathematics*, **2021**, 7, 1791-1810	2.2	3
1199	Fuzzy-interval inequalities for generalized convex fuzzy-interval-valued functions via fuzzy Riemann integrals. *AIMS Mathematics*, **2021**, 7, 1507-1535	2.2	7
1198	Ginzburg Landau equation's Innovative Solution (GLEIS). *Physica Scripta*, **2021**, 96, 035204	2.6	2
1197	A hybrid fractional optimal control for a novel Coronavirus (2019-nCov) mathematical model. *Journal of Advanced Research*, **2021**, 32, 149-160	13	14
1196	NEW NEWTON'S TYPE ESTIMATES PERTAINING TO LOCAL FRACTIONAL INTEGRAL VIA GENERALIZED p-CONVEXITY WITH APPLICATIONS. *Fractals*, **2021**, 29, 2140018	3.2	7
1195	ACHIEVING MORE PRECISE BOUNDS BASED ON DOUBLE AND TRIPLE INTEGRAL AS PROPOSED BY GENERALIZED PROPORTIONAL FRACTIONAL OPERATORS IN THE HILFER SENSE. *Fractals*, **2021**, 29, 2140027	3.2	11

1194	ON THE APPROXIMATE SOLUTIONS FOR A SYSTEM OF COUPLED KORTEWEGDE VRIES EQUATIONS WITH LOCAL FRACTIONAL DERIVATIVE. *Fractals*, **2021**, 29, 2140012	3.2	10
1193	Emergent patterns in diffusive Turing-like systems with fractional-order operator. *Neural Computing and Applications*, **2021**, 33, 12703	4.8	8
1192	A new fractional SICA model and numerical method for the transmission of HIV/AIDS. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 8648-8659	2.3	4
1191	Recovering the source term for parabolic equation with nonlocal integral condition. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 9026-9041	2.3	2
1190	FRACTIONAL MAYER NEURO-SWARM HEURISTIC SOLVER FOR MULTI-FRACTIONAL ORDER DOUBLY SINGULAR MODEL BASED ON LANEEMDEN EQUATION. *Fractals*, **2021**, 29, 2140017	3.2	21
1189	The stability of the fractional Volterra integro-differential equation by means of Hilfer operator revisited. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 10905-10911	2.3	3
1188	Classes of operators in fractional calculus: A case study. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 9143-9162	2.3	17
1187	Caputo SIR model for COVID-19 under optimized fractional order. *Advances in Difference Equations*, **2021**, 2021, 185	3.6	10
1186	A mathematical model to optimize the available control measures of COVID 19. *Ecological Complexity*, **2021**, 46, 100930	2.6	2
1185	DESIGN OF NEURO-SWARMING HEURISTIC SOLVER FOR MULTI-PANTOGRAPH SINGULAR DELAY DIFFERENTIAL EQUATION. *Fractals*, **2021**, 29, 2140022	3.2	14
1184	NEW MULTI-FUNCTIONAL APPROACH FOR TH-ORDER DIFFERENTIABILITY GOVERNED BY FRACTIONAL CALCULUS VIA APPROXIMATELY GENERALIZED (?)-CONVEX FUNCTIONS IN HILBERT SPACE. *Fractals*, **2021**, 29, 2140019	3.2	7
1183	Fractional unit-root tests allowing for a fractional frequency flexible Fourier form trend: predictability of Covid-19. *Advances in Difference Equations*, **2021**, 2021, 167	3.6	11
1182	Hyperchaotic behaviors, optimal control, and synchronization of a nonautonomous cardiac conduction system. *Advances in Difference Equations*, **2021**, 2021,	3.6	45
1181	An analytic study on the approximate solution of a nonlinear time-fractional Cauchy reactiondiffusion equation with the Mittagleffler law. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 6247-6258	2.3	18
1180	A new extension of hesitant fuzzy set: An application to an offshore wind turbine technology selection process. *IET Renewable Power Generation*, **2021**, 15, 2340-2355	2.9	5
1179	A hybrid stochastic fractional order Coronavirus (2019-nCov) mathematical model. *Chaos, Solitons and Fractals*, **2021**, 145, 110762	9.3	15
1178	On solutions of fractional multi-term sequential problems via some special categories of functions and (AEP)-property. *Advances in Difference Equations*, **2021**, 2021,	3.6	1
1177	The Lie symmetry analysis and exact Jacobi elliptic solutions for the KawaharaKdV type equations. *Results in Physics*, **2021**, 23, 104006	3.7	21

1176	A numerical approach for solving fractional optimal control problems with mittag-leffler kernel. *JVC/Journal of Vibration and Control*, **2021**, 107754632110169	2	14
1175	Existence of solutions for the Caputo-Hadamard fractional differential equations and inclusions. *Journal of Physics: Conference Series*, **2021**, 1850, 012107	0.3	1
1174	Analytic Solution of the Langevin Differential Equations Dominated by a Multibrot Fractal Set. *Fractal and Fractional*, **2021**, 5, 50	3	4
1173	Dynamics of pattern formation process in fractional-order super-diffusive processes: a computational approach. *Soft Computing*, **2021**, 25, 11191-11208	3.5	5
1172	Continuity Result on the Order of a Nonlinear Fractional Pseudo-Parabolic Equation with Caputo Derivative. *Fractal and Fractional*, **2021**, 5, 41	3	2
1171	Balance equations with generalised memory and the emerging fractional kernels. *Nonlinear Dynamics*, **2021**, 104, 4149	5	2
1170	Analysis and dynamics of fractional order Covid-19 model with memory effect. *Results in Physics*, **2021**, 24, 104017	3.7	18
1169	Existence results for the Hadamard fractional differential equations and inclusions. *Journal of Physics: Conference Series*, **2021**, 1850, 012122	0.3	
1168	New and more fractional soliton solutions related to generalized Davey–Stewartson equation using oblique wave transformation. *Modern Physics Letters B*, **2021**, 35, 2150317	1.6	1
1167	Existence, uniqueness and stability analysis of a coupled fractional-order differential systems involving Hadamard derivatives and associated with multi-point boundary conditions. *Advances in Difference Equations*, **2021**, 2021,	3.6	6
1166	On a nonlinear dynamical system with both chaotic and nonchaotic behaviors: a new fractional analysis and control. *Advances in Difference Equations*, **2021**, 2021,	3.6	43
1165	Factor analysis approach to classify COVID-19 datasets in several regions. *Results in Physics*, **2021**, 25, 104071	3.7	10
1164	A nonstandard finite difference scheme for the modeling and nonidentical synchronization of a novel fractional chaotic system. *Advances in Difference Equations*, **2021**, 2021,	3.6	39
1163	Identifying the source function for time fractional diffusion with non-local in time conditions. *Computational and Applied Mathematics*, **2021**, 40, 1	2.4	1
1162	Heat and mass transport impact on MHD second-grade fluid: A comparative analysis of fractional operators. *Heat Transfer*, **2021**, 50, 7042	3.1	14
1161	Mathematical modeling and analysis of the novel Coronavirus using Atangana-Baleanu derivative. *Results in Physics*, **2021**, 25, 104240	3.7	4
1160	Numerical solution of highly non-linear fractional order reaction advection diffusion equation using the cubic B-spline collocation method. *International Journal of Nonlinear Sciences and Numerical Simulation*, **2021**,	1.8	3
1159	Search for adequate closed form wave solutions to space–time fractional nonlinear equations. *Partial Differential Equations in Applied Mathematics*, **2021**, 3, 100025	0.8	3

1158	A hybrid fractional COVID-19 model with general population mask use: Numerical treatments. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 3219-3232	6.1	8
1157	Symmetry Breaking of a Time-2D Space Fractional Wave Equation in a Complex Domain. *Axioms*, **2021**, 10, 141	1.6	1
1156	Fractional Integral Inequalities for Exponentially Nonconvex Functions and Their Applications. *Fractal and Fractional*, **2021**, 5, 80	3	5
1155	An efficient hybrid computational technique for the time dependent Lane-Emden equation of arbitrary order. *Journal of Ocean Engineering and Science*, **2021**,	4.4	2
1154	A Novel Collocated-Shifted Lucas Polynomial Approach for Fractional Integro-Differential Equations. *International Journal of Applied and Computational Mathematics*, **2021**, 7, 1	1.3	3
1153	Some New Fractional Estimates of Inequalities for LR-p-Convex Interval-Valued Functions by Means of Pseudo Order Relation. *Axioms*, **2021**, 10, 175	1.6	20
1152	Discrete fractional calculus for interval□valued systems. *Fuzzy Sets and Systems*, **2021**, 404, 141-158	3.7	25
1151	Anti-synchronization of chaotic systems using a fractional conformable derivative with power law. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 8286-8301	2.3	4
1150	Design of stochastic numerical solver for the solution of singular three-point second-order boundary value problems. *Neural Computing and Applications*, **2021**, 33, 2427-2443	4.8	21
1149	Optimal solutions for singular linear systems of Caputo fractional differential equations. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 7884-7896	2.3	19
1148	An efficient computational approach for local fractional Poisson equation in fractal media. *Numerical Methods for Partial Differential Equations*, **2021**, 37, 1439-1448	2.5	23
1147	A spectral collocation method for solving fractional KdV and KdV-Burgers equations with non-singular kernel derivatives. *Applied Numerical Mathematics*, **2021**, 161, 137-146	2.5	39
1146	Fuzzy clustering to classify several time series models with fractional Brownian motion errors. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 1137-1145	6.1	14
1145	Analysis of time-fractional dynamical model of romantic and interpersonal relationships with non-singular kernels: A comparative study. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 2183-2199	2.3	4
1144	Analysis and Application Using Quad Compound Combination Anti-synchronization on Novel Fractional-Order Chaotic System. *Arabian Journal for Science and Engineering*, **2021**, 46, 1729-1742	2.5	9
1143	Henry□Gronwall type q-fractional integral inequalities. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 2033-2039	2.3	5
1142	Approximation of fixed point and its application to fractional differential equation. *Journal of Applied Mathematics and Computing*, **2021**, 66, 507-525	1.8	8
1141	Computational study of fractional order smoking model. *Chaos, Solitons and Fractals*, **2021**, 142, 110440	9.3	15

1140	A hybrid analytical algorithm for thin film flow problem occurring in non-Newtonian fluid mechanics. *Ain Shams Engineering Journal*, **2021**, 12, 2297-2302	4.4	11
1139	Unification of the different fractional time derivatives: An application to the epidemic-antivirus dynamical system in computer networks. *Chaos, Solitons and Fractals*, **2021**, 142, 110416	9.3	10
1138	SIR epidemic model of childhood diseases through fractional operators with Mittag-Leffler and exponential kernels. *Mathematics and Computers in Simulation*, **2021**, 182, 514-534	3.3	12
1137	Recovering the initial value for a system of nonlocal diffusion equations with random noise on the measurements. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 5188-5209	2.3	2
1136	Pattern formation in superdiffusion predator□prey-like problems with integer- and noninteger-order derivatives. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 4018-4036	2.3	8
1135	An analysis for Klein□Gordon equation using fractional derivative having Mittag□Leffler-type kernel. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 5458-5474	2.3	1
1134	New applications related to Covid-19. *Results in Physics*, **2021**, 20, 103663	3.7	15
1133	Analysis of fractional model of guava for biological pest control with memory effect. *Journal of Advanced Research*, **2021**, 32, 99-108	13	29
1132	Solutions of BVPs arising in hydrodynamic and magnetohydro-dynamic stability theory using polynomial and non-polynomial splines. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 941-953	6.1	11
1131	Analysis of the fractional corona virus pandemic via deterministic modeling. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 1086-1102	2.3	19
1130	On the fractional optimal control problems with a general derivative operator. *Asian Journal of Control*, **2021**, 23, 1062-1071	1.7	83
1129	Some exact solutions of a variable coefficients fractional biological population model. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 4701-4714	2.3	6
1128	On a combination of fractional differential and integral operators associated with a class of normalized functions. *AIMS Mathematics*, **2021**, 6, 4211-4226	2.2	4
1127	Simulating the joint impact of temporal and spatial memory indices via a novel analytical scheme. *Nonlinear Dynamics*, **2021**, 103, 2509-2524	5	10
1126	Mathematical analysis of tuberculosis control model using nonsingular kernel type Caputo derivative. *Advances in Difference Equations*, **2021**, 2021,	3.6	10
1125	Construction and analysis of unified 4-point interpolating nonstationary subdivision surfaces. *Advances in Difference Equations*, **2021**, 2021,	3.6	1
1124	Numerical investigation for the nonlinear model of hepatitis-B virus with the existence of optimal solution. *AIMS Mathematics*, **2021**, 6, 8294-8314	2.2	1
1123	A new approach on the modelling, chaos control and synchronization of a fractional biological oscillator. *Advances in Difference Equations*, **2021**, 2021,	3.6	3

1122	General Raina fractional integral inequalities on coordinates of convex functions. *Advances in Difference Equations*, **2021**, 2021,	3.6	10
1121	On distinctive solitons type solutions for some important nonlinear Schr□inger equations. *Optical and Quantum Electronics*, **2021**, 53, 1	2.4	6
1120	The analytical analysis of nonlinear fractional-order dynamical models. *AIMS Mathematics*, **2021**, 6, 6201-6219	2.2	7
1119	Numerical investigation of space fractional order diffusion equation by the Chebyshev collocation method of the fourth kind and compact finite difference scheme. *Discrete and Continuous Dynamical Systems - Series S*, **2021**, 14, 2025	2.8	1
1118	On quantum hybrid fractional conformable differential and integral operators in a complex domain. *Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas*, **2021**, 115, 1	1.6	10
1117	Modeling of a MED-TVC desalination system by considering the effects of nanoparticles: energetic and exergetic analysis. *Journal of Thermal Analysis and Calorimetry*, **2021**, 144, 2675	4.1	5
1116	Lump, lump-one stripe, multiwave and breather solutions for the Hunter□axton equation. *Open Physics*, **2021**, 19, 1-10	1.3	16
1115	Analysis of the Physical Behavior of the Periodic Mixed-Convection Flow around a Nonconducting Horizontal Circular Cylinder Embedded in a Porous Medium. *Journal of Mathematics*, **2021**, 2021, 1-7	1.2	5
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