Ahmad El-Ajou

List of Publications by Year
in descending order

31 papers	**1,809** citations	270111 **25** h-index	511568 **30** g-index
31 all docs	**31** docs citations	**31** times ranked	**755** citing authors

#	Article	IF	Citations
1	Adaptation of reproducing kernel method in solving Atangana–Baleanu fractional Bratu model. International Journal of Dynamics and Control, 2023, 11, 136-148.	1.5	10
2	A new efficient technique using Laplace transforms and smooth expansions to construct a series solution to the time-fractional Navier-Stokes equations. AEJ - Alexandria Engineering Journal, 2022, 61, 1069-1077.	3.4	44
3	Reliable solutions to fractional Lane-Emden equations via Laplace transform and residual error function. AEJ - Alexandria Engineering Journal, 2022, 61, 10551-10562.	3.4	27
4	Adapting the Laplace transform to create solitary solutions for the nonlinear time-fractional dispersive PDEs via a new approach. European Physical Journal Plus, 2021, 136, 1.	1.2	50
5	Numerical approach in the Hilbert space to solve a fuzzy Atangana-Baleanu fractional hybrid system. Chaos, Solitons and Fractals, 2021, 143, 110506.	2.5	59
6	A Vector Series Solution for a Class of Hyperbolic System of Caputo Time-Fractional Partial Differential Equations With Variable Coefficients. Frontiers in Physics, 2021, 9, .	1.0	18
7	A New Attractive Analytic Approach for Solutions of Linear and Nonlinear Neutral Fractional Pantograph Equations. Chaos, Solitons and Fractals, 2020, 138, 109957.	2.5	62
8	Smooth expansion to solve high-order linear conformable fractional PDEs via residual power series method: Applications to physical and engineering equations. Ain Shams Engineering Journal, 2020, 11, 1243-1254.	3.5	30
9	Series solutions for nonlinear time-fractional Schrödinger equations: Comparisons between conformable and Caputo derivatives. AEJ - Alexandria Engineering Journal, 2020, 59, 2101-2114.	3.4	44
10	A modification to the conformable fractional calculus with some applications. AEJ - Alexandria Engineering Journal, 2020, 59, 2239-2249.	3.4	31
11	Atangana-Baleanu fractional framework of reproducing kernel technique in solving fractional population dynamics system. Chaos, Solitons and Fractals, 2020, 133, 109624.	2.5	76
12	A Class of Linear Non-Homogenous Higher Order Matrix Fractional Differential Equations: Analytical Solutions and New Technique. Fractional Calculus and Applied Analysis, 2020, 23, 356-377.	1.2	28
13	Taylor's expansion for fractional matrix functions: theory and applications. Journal of Mathematics and Computer Science, 2020, 21, 1-17.	0.5	21
14	Analytical numerical solutions of the fractional multi-pantograph system: Two attractive methods and comparisons. Results in Physics, 2019, 14, 102500.	2.0	34
15	Analytical Solution for Multi-Energy Groups of Neutron Diffusion Equations by a Residual Power Series Method. Mathematics, 2019, 7, 633.	1.1	32
16	Series solutions of nonlinear conformable fractional KdV-Burgers equation with some applications. European Physical Journal Plus, 2019, 134, 1.	1.2	45
17	Mathematical Model for Simulating the Movement of Water Droplet on Artificial Leaf Surface. Frontiers in Physics, 2019, 7, .	1.0	8
18	Solitary solutions for time-fractional nonlinear dispersive PDEs in the sense of conformable fractional derivative. Chaos, 2019, 29, 093102.	1.0	74

#	Article	IF	Citations
19	Addendum: Shqair, M., et al. Analytical Solution for Multi-Energy Groups of Neutron Diffusion Equations by a Residual Power Series Method. Mathematics 2019, 7, 633. Mathematics, 2019, 7, 1061.	1.1	0
20	A novel expansion iterative method for solving linear partial differential equations of fractional order. Applied Mathematics and Computation, 2015, 257, 119-133.	1.4	107
21	A general form of the generalized Taylor's formula with some applications. Applied Mathematics and Computation, 2015, 256, 851-859.	1.4	88
22	Approximate analytical solution of the nonlinear fractional KdV–Burgers equation: A new iterative algorithm. Journal of Computational Physics, 2015, 293, 81-95.	1.9	212
23	Constructing and predicting solitary pattern solutions for nonlinear time-fractional dispersive partial differential equations. Journal of Computational Physics, 2015, 293, 385-399.	1.9	126
24	A Numerical Iterative Method for Solving Systems of First-Order Periodic Boundary Value Problems. Journal of Applied Mathematics, 2014, 2014, 1-10.	0.4	33
25	Multiple Solutions of Nonlinear Boundary Value Problems of Fractional Order: A New Analytic Iterative Technique. Entropy, 2014, 16, 471-493.	1.1	71
26	Solving fractional two-point boundary value problems using continuous analytic method. Ain Shams Engineering Journal, 2013, 4, 539-547.	3.5	26
27	Solution of the fractional epidemic model by homotopy analysis method. Journal of King Saud University - Science, 2013, 25, 73-81.	1.6	132
28	A Representation of the Exact Solution of Generalized Lane-Emden Equations Using a New Analytical Method. Abstract and Applied Analysis, 2013, 2013, 1-10.	0.3	95
29	New Results on Fractional Power Series: Theories and Applications. Entropy, 2013, 15, 5305-5323.	1.1	161
30	Analytical Solutions of Fuzzy Initial Value Problems by HAM. Applied Mathematics and Information Sciences, 2013, 7, 1903-1919.	0.7	36
31	Homotopy Analysis Method for Second-Order Boundary Value Problems of Integrodifferential Equations. Discrete Dynamics in Nature and Society, 2012, 2012, 1-18.	0.5	29