Nabil T Shawagfeh

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3821931/publications.pdf

Version: 2024-02-01

42 papers	2,450 citations	331670 21 h-index	315739 38 g-index
42 all docs	42 docs citations	42 times ranked	1348 citing authors

#	Article	IF	Citations
1	A linearization-based computational algorithm of homotopy analysis method for nonlinear reactionâ€“diffusion systems. Mathematics and Computers in Simulation, 2022, 194, 505-522.	4.4	8
2	On the dynamics of a Caputo-like discrete fractional RÃ¶ssler system: chaos, stabilization and synchronization. Physica Scripta, 2022, 97, 035203.	2.5	6
3	Incommensurate Fractional Discrete Neural Network: chaos and complexity. European Physical Journal Plus, 2022, 137, 1.	2.6	28
4	The effect of the Caputo fractional difference operator on a new discrete COVID-19 model. Results in Physics, 2022, 39, 105797.	4.1	14
5	Solving optimal control problems of Fredholm constraint optimality via the reproducing kernel Hilbert space method with error estimates and convergence analysis. Mathematical Methods in the Applied Sciences, 2021, 44, 7915-7932.	2.3	32
6	A new mathematical model for the glycolysis phenomenon involving Caputo fractional derivative: Well posedness, stability and bifurcation. Chaos, Solitons and Fractals, 2021, 142, 110520.	5.1	3
7	Global synchronization of fractionalâ€order and integerâ€order N component reaction diffusion systems: Application to biochemical models. Mathematical Methods in the Applied Sciences, 2021, 44, 1003-1012.	2.3	11
8	Nonlinear dynamics and chaos in Caputo-like discrete fractional Chen system. Physica Scripta, 2021, 96, 095219.	2.5	2
9	The Tikhonov regularization method for the inverse source problem of time fractional heat equation in the view of ABC-fractional technique. Physica Scripta, 2021, 96, 094006.	2.5	90
10	A fractional Tikhonov regularization method for an inverse backward and source problems in the time-space fractional diffusion equations. Chaos, Solitons and Fractals, 2021, 150, 111127.	5.1	69
11	A numerical algorithm in reproducing kernel-based approach for solving the inverse source problem of the timeâ€“space fractional diffusion equation. Partial Differential Equations in Applied Mathematics, 2021, 4, 100164.	2.4	22
12	Synchronization Methods for the Degn-Harrison Reaction-Diffusion Systems. IEEE Access, 2020, 8, 91829-91836.	4.2	11
13	On Two-Dimensional Fractional Chaotic Maps with Symmetries. Symmetry, 2020, 12, 756.	2.2	23
14	Well-posedness of the inverse problem of time fractional heat equation in the sense of the Atangana-Baleanu fractional approach. AEJ - Alexandria Engineering Journal, 2020, 59, 2261-2268.	6.4	21
15	An optimized linearization-based predictor-corrector algorithm for the numerical simulation of nonlinear FDEs. Physica Scripta, 2020, 95, 065202.	2.5	16
16	A New Qâ€“S Synchronization Results for Discrete Chaotic Systems. Differential Equations and Dynamical Systems, 2019, 27, 413-422.	1.0	20
17	APPLICATION OF REPRODUCING KERNEL ALGORITHM FOR SOLVING DIRICHLET TIME-FRACTIONAL DIFFUSION-GORDON TYPES EQUATIONS IN POROUS MEDIA. Journal of Porous Media, 2019, 22, 411-434.	1.9	126
18	Fitted Spectral Tau Jacobi Technique for Solving Certain Classes of Fractional Differential Equations,. Applied Mathematics and Information Sciences, 2019, 13, 979-987.	0.5	2

#	Article	IF	Citations
19	A study on the convergence conditions of generalized differential transform method. Mathematical Methods in the Applied Sciences, 2017, 40, 40-48.	2.3	36
20	Universal chaos synchronization control laws for general quadratic discrete systems. Applied Mathematical Modelling, 2017, 45, 636-641.	4.2	36
21	Bernstein Operational Matrix with Error Analysis for Solving High Order Delay Differential Equations. International Journal of Applied and Computational Mathematics, 2017, 3, 1749-1762.	1.6	12
22	Numerical investigations for systems of second-order periodic boundary value problems using reproducing kernel method. Applied Mathematics and Computation, 2016, 291, 137-148.	2.2	71
23	Optimization Solution of Troeschâ€™s and Bratuâ€™s Problems of Ordinary Type Using Novel Continuous Genetic Algorithm. Discrete Dynamics in Nature and Society, 2014, 2014, 1-15.	0.9	126
24	Solving Fredholm integroâ€“differential equations using reproducing kernel Hilbert space method. Applied Mathematics and Computation, 2013, 219, 8938-8948.	2.2	118
25	Analytical Solutions of Fuzzy Initial Value Problems by HAM. Applied Mathematics and Information Sciences, 2013, 7, 1903-1919.	0.5	36
26	Solving Singular Two-Point Boundary Value Problems Using Continuous Genetic Algorithm. Abstract and Applied Analysis, 2012, 2012, 1-25.	0.7	75
27	Generalized Taylorâ€™s formula. Applied Mathematics and Computation, 2007, 186, 286-293.	2.2	656
28	Decomposition method for solving fractional Riccati differential equations. Applied Mathematics and Computation, 2006, 182, 1083-1092.	2.2	175
29	Series solution to the Pochhammer-Chreeequation and comparison with exact solutions. Computers and Mathematics With Applications, 2004, 47, 1915-1920.	2.7	30
30	Comparing numerical methods for the solutions of systems of ordinary differential equations. Applied Mathematics Letters, 2004, 17, 323-328.	2.7	56
31	Remarks on the lattice Greenâ€™s function: The Glasser case. Journal of Mathematical Physics, 2002, 43, 235-242.	1.1	6
32	Analytical approximate solutions for nonlinear fractional differential equations. Applied Mathematics and Computation, 2002, 131, 517-529.	2.2	209
33	Non-perturbative analytical solution of the general Lotka-Volterra three-species system. Applied Mathematics and Computation, 1996, 76, 251-266.	2.2	12
34	Analytic approximate solution for a nonlinear oscillator equation. Computers and Mathematics With Applications, 1996, 31, 135-141.	2.7	11
35	On the analytic solution of the lane-emden equation. Foundations of Physics Letters, 1995, 8, 161-181.	0.6	73
36	Nonperturbative approximate solution for Laneâ€“Emden equation. Journal of Mathematical Physics, 1993, 34, 4364-4369.	1.1	178

#	Article	IF	Citations
37	Singularity methods for magnetohydrodynamics. International Journal of Mathematics and Mathematical Sciences, 1986, 9, 111-122.	0.7	0
38	Dirac equation for a linear potential. Journal of Mathematical Physics, 1984, 25, 2533-2537.	1.1	27
39	On squares of Hermite polynomials. Aequationes Mathematicae, 1983, 26, 221-224.	0.8	1
40	Power Series of an Elliptic Function (M. L. Glasser). SIAM Review, 1982, 24, 345-346.	9.5	0
41	Non-existence of global solutions for certain class of fractional evolution equations. Applicable Analysis, 0, , 1-15.	1.3	1
42	Numerical schemes for variable exponent fractionalâ€type integral equations. Mathematical Methods in the Applied Sciences, 0, , .	2.3	1