

Nabil T Shawagfeh

List of Publications by Year in descending order

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42
papers

2,450
citations

331670

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315739

38
g-index

42
all docs

42
docs citations

42
times ranked

1348
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized Taylor's formula. Applied Mathematics and Computation, 2007, 186, 286-293.	2.2	656
2	Analytical approximate solutions for nonlinear fractional differential equations. Applied Mathematics and Computation, 2002, 131, 517-529.	2.2	209
3	Nonperturbative approximate solution for Lane's Emden equation. Journal of Mathematical Physics, 1993, 34, 4364-4369.	1.1	178
4	Decomposition method for solving fractional Riccati differential equations. Applied Mathematics and Computation, 2006, 182, 1083-1092.	2.2	175
5	Optimization Solution of Troesch's and Bratu's Problems of Ordinary Type Using Novel Continuous Genetic Algorithm. Discrete Dynamics in Nature and Society, 2014, 2014, 1-15.	0.9	126
6	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
7	Solving Fredholm integro-differential equations using reproducing kernel Hilbert space method. Applied Mathematics and Computation, 2013, 219, 8938-8948.	2.2	118
8	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
9	Solving Singular Two-Point Boundary Value Problems Using Continuous Genetic Algorithm. Abstract and Applied Analysis, 2012, 2012, 1-25.	0.7	75
10	On the analytic solution of the lane-Emden equation. Foundations of Physics Letters, 1995, 8, 161-181.	0.6	73
11	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
12	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
13	Comparing numerical methods for the solutions of systems of ordinary differential equations. Applied Mathematics Letters, 2004, 17, 323-328.	2.7	56
14	Analytical Solutions of Fuzzy Initial Value Problems by HAM. Applied Mathematics and Information Sciences, 2013, 7, 1903-1919.	0.5	36
15	A study on the convergence conditions of generalized differential transform method. Mathematical Methods in the Applied Sciences, 2017, 40, 40-48.	2.3	36
16	Universal chaos synchronization control laws for general quadratic discrete systems. Applied Mathematical Modelling, 2017, 45, 636-641.	4.2	36
17	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
18	Series solution to the Pochhammer-Chree equation and comparison with exact solutions. Computers and Mathematics With Applications, 2004, 47, 1915-1920.	2.7	30

#	ARTICLE	IF	CITATIONS
19	Incommensurate Fractional Discrete Neural Network: chaos and complexity. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	28
20	Dirac equation for a linear potential. <i>Journal of Mathematical Physics</i> , 1984, 25, 2533-2537.	1.1	27
21	On Two-Dimensional Fractional Chaotic Maps with Symmetries. <i>Symmetry</i> , 2020, 12, 756.	2.2	23
22	A numerical algorithm in reproducing kernel-based approach for solving the inverse source problem of the time-space fractional diffusion equation. <i>Partial Differential Equations in Applied Mathematics</i> , 2021, 4, 100164.	2.4	22
23	Well-posedness of the inverse problem of time fractional heat equation in the sense of the Atangana-Baleanu fractional approach. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 2261-2268.	6.4	21
24	A New Q-S Synchronization Results for Discrete Chaotic Systems. <i>Differential Equations and Dynamical Systems</i> , 2019, 27, 413-422.	1.0	20
25	An optimized linearization-based predictor-corrector algorithm for the numerical simulation of nonlinear FDEs. <i>Physica Scripta</i> , 2020, 95, 065202.	2.5	16
26	The effect of the Caputo fractional difference operator on a new discrete COVID-19 model. <i>Results in Physics</i> , 2022, 39, 105797.	4.1	14
27	Non-perturbative analytical solution of the general Lotka-Volterra three-species system. <i>Applied Mathematics and Computation</i> , 1996, 76, 251-266.	2.2	12
28	Bernstein Operational Matrix with Error Analysis for Solving High Order Delay Differential Equations. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 1749-1762.	1.6	12
29	Analytic approximate solution for a nonlinear oscillator equation. <i>Computers and Mathematics With Applications</i> , 1996, 31, 135-141.	2.7	11
30	Synchronization Methods for the Degn-Harrison Reaction-Diffusion Systems. <i>IEEE Access</i> , 2020, 8, 91829-91836.	4.2	11
31	Global synchronization of fractional-order and integer-order N component reaction diffusion systems: Application to biochemical models. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 1003-1012.	2.3	11
32	A linearization-based computational algorithm of homotopy analysis method for nonlinear reaction-diffusion systems. <i>Mathematics and Computers in Simulation</i> , 2022, 194, 505-522.	4.4	8
33	Remarks on the lattice Green's function: The Glasser case. <i>Journal of Mathematical Physics</i> , 2002, 43, 235-242.	1.1	6
34	On the dynamics of a Caputo-like discrete fractional Rössler system: chaos, stabilization and synchronization. <i>Physica Scripta</i> , 2022, 97, 035203.	2.5	6
35	A new mathematical model for the glycolysis phenomenon involving Caputo fractional derivative: Well posedness, stability and bifurcation. <i>Chaos, Solitons and Fractals</i> , 2021, 142, 110520.	5.1	3
36	Nonlinear dynamics and chaos in Caputo-like discrete fractional Chen system. <i>Physica Scripta</i> , 2021, 96, 095219.	2.5	2

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