

Waheed K Zahra

List of Publications by Year in descending order

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39
papers

525
citations

686830

13
h-index

676716

22
g-index

40
all docs

40
docs citations

40
times ranked

403
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability analysis of COVID-19 model with fractional-order derivative and a delay in implementing the quarantine strategy. Journal of Applied Mathematics and Computing, 2022, 68, 295-321.	1.2	7
2	Fractional modelling of conventional solar desalination system. AIP Conference Proceedings, 2022, , .	0.3	0
3	Static interaction between colloidal carbon nano-dots and aniline: A novel platform for ultrasensitive detection of aniline in aqueous media. Materials Research Bulletin, 2021, 134, 111119.	2.7	23
4	Cooperative Spectrum Sharing Scheme for Enhancing Primary User Performance under Denial of Service Attack. , 2021, , .		1
5	Numerical simulation for timeâ€fractional nonlinear reactionâ€diffusion system on a uniform and nonuniform time stepping. Mathematical Methods in the Applied Sciences, 2021, 44, 5340-5364.	1.2	2
6	Optimal decision making in multi-channel RF-powered cognitive radio networks with ambient backscatter capability. Computer Networks, 2021, 189, 107907.	3.2	2
7	Fractional modeling for enhancing the thermal performance of conventional solar still using hybrid nanofluid: Energy and exergy analysis. Desalination, 2021, 503, 114847.	4.0	57
8	Study of the impact of using hybrid nanofluid and saline water preheating on the performance of both integrated solar still and photovoltaic panel using fractional modeling. European Physical Journal Plus, 2021, 136, 1.	1.2	5
9	Cooperative Spectrum Sharing Scheme for Enhancing Primary User Performance under Denial of Service Attack. , 2021, , .		0
10	Time-fractional nonlinear Swift-Hohenberg equation: Analysis and numerical simulation. AEJ - Alexandria Engineering Journal, 2020, 59, 4491-4510.	3.4	9
11	A fractional model for estimating the hole geometry in the laser drilling process of thin metal sheets. Chaos, Solitons and Fractals, 2020, 136, 109843.	2.5	5
12	Highly sensitive fluorescent detection of pyridine using small size carbon quantum dots derived from folic acid. Journal Physics D: Applied Physics, 2020, 53, 405103.	1.3	11
13	Exponentially fitted methods for solving two-dimensional time fractional damped Kleinâ€Gordon equation with nonlinear source term. Communications in Nonlinear Science and Numerical Simulation, 2019, 73, 177-194.	1.7	12
14	Exponentially fitted methods for solving time fractional nonlinear reactionâ€diffusion equation. Applied Mathematics and Computation, 2019, 358, 468-490.	1.4	10
15	Rational spline-nonstandard finite difference scheme for the solution of time-fractional Swiftâ€Hohenberg equation. Applied Mathematics and Computation, 2019, 343, 372-387.	1.4	5
16	Discrete Spline Solution of Singularly Perturbed Problem with Two Small Parameters on a Shishkin-Type Mesh. Computational Mathematics and Modeling, 2018, 29, 367-381.	0.2	3
17	Non standard finite difference method for solving variable order fractional optimal control problems. JVC/Journal of Vibration and Control, 2017, 23, 948-958.	1.5	37
18	Trigonometric B-Spline Collocation Method for Solving PHI-Four and Allenâ€Cahn Equations. Mediterranean Journal of Mathematics, 2017, 14, 1.	0.4	17

#	ARTICLE	IF	CITATIONS
19	Solutions of fractional order electrical circuits via Laplace transform and nonstandard finite difference method. Journal of the Egyptian Mathematical Society, 2017, 25, 252-261.	0.6	20
20	Discrete spline methods for solving two point fractional Bagley-Torvik equation. Applied Mathematics and Computation, 2017, 296, 42-56.	1.4	32
21	Discrete Spline Solution for General Type Variational Problems. Applied Mathematics and Information Sciences, 2017, 11, 659-667.	0.7	0
22	On Fractional Model of an HIV/AIDS with Treatment and Time Delay. Progress in Fractional Differentiation and Applications, 2016, 2, 55-66.	1.1	11
23	An Effective scheme based on quartic B-spline for the solution of Gardner equation and Harry Dym equation. Communications on Advanced Computational Science With Applications, 2016, 2016, 82-94.	0.1	0
24	Preface of the "Second symposium on computational and applied sciences", AIP Conference Proceedings, 2015, , .	0.3	0
25	SPLINE DIFFERENCE SCHEME FOR TWO-PARAMETER SINGULARLY PERTURBED PARTIAL DIFFERENTIAL EQUATIONS. Journal of Applied Mathematics & Informatics, 2014, 32, 185-201.	0.1	11
26	Numerical solution of two-parameter singularly perturbed boundary value problems via exponential spline. Journal of King Saud University - Science, 2013, 25, 201-208.	1.6	32
27	B-spline soliton solution of the fifth order KdV type equations. AIP Conference Proceedings, 2013, , .	0.3	3
28	Preface of the "1st symposium on computational mathematics and its applications". , 2013, , .		0
29	The Use of Cubic Splines in the Numerical Solution of Fractional Differential Equations. International Journal of Mathematics and Mathematical Sciences, 2012, 2012, 1-16.	0.3	22
30	Quadratic spline solution for boundary value problem of fractional order. Numerical Algorithms, 2012, 59, 373-391.	1.1	24
31	Study on Heat and Mass Transfer During Urea Prilling Process. International Journal of Chemical Engineering and Applications (IJCEA), 2012, , 347-353.	0.3	7
32	Finite-difference technique based on exponential splines for the solution of obstacle problems. International Journal of Computer Mathematics, 2011, 88, 3046-3060.	1.0	9
33	A smooth approximation based on exponential spline solutions for nonlinear fourth order two point boundary value problems. Applied Mathematics and Computation, 2011, 217, 8447-8457.	1.4	12
34	Exponential spline solutions for a class of two point boundary value problems over a semi-infinite range. Numerical Algorithms, 2009, 52, 561-573.	1.1	8
35	Quintic nonpolynomial spline solutions for fourth order two-point boundary value problem. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1105-1114.	1.7	31
36	High order accuracy nonpolynomial spline solutions for $2\frac{1}{4}$ th order two point boundary value problems. Applied Mathematics and Computation, 2008, 204, 920-927.	1.4	18

#	ARTICLE	IF	CITATIONS
37	A class of methods based on a septic non-polynomial spline function for the solution of sixth-order two-point boundary value problems. <i>International Journal of Computer Mathematics</i> , 2008, 85, 759-770.	1.0	16
38	Polynomial and nonpolynomial spline approaches to the numerical solution of second order boundary value problems. <i>Applied Mathematics and Computation</i> , 2007, 184, 476-484.	1.4	62
39	SEIRS epidemic model with Caputo's Fabrizio fractional derivative and time delay: dynamical analysis and simulation. <i>Ricerche Di Matematica</i> , 0, , 1.	0.6	1