

# 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	Polynomial and nonpolynomial spline approaches to the numerical solution of second order boundary value problems. Applied Mathematics and Computation, 2007, 184, 476-484.	1.4	62
2	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
3	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
4	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
5	Discrete spline methods for solving two point fractional Bagley-Torvik equation. Applied Mathematics and Computation, 2017, 296, 42-56.	1.4	32
6	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
7	Quadratic spline solution for boundary value problem of fractional order. Numerical Algorithms, 2012, 59, 373-391.	1.1	24
8	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
9	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
10	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
11	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
12	Trigonometric B-Spline Collocation Method for Solving PHI-Four and Allen-Cahn Equations. Mediterranean Journal of Mathematics, 2017, 14, 1.	0.4	17
13	A class of methods based on a septic non-polynomial spline function for the solution of sixth-order two-point boundary value problems. International Journal of Computer Mathematics, 2008, 85, 759-770.	1.0	16
14	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
15	Exponentially fitted methods for solving two-dimensional time fractional damped Klein-Gordon equation with nonlinear source term. Communications in Nonlinear Science and Numerical Simulation, 2019, 73, 177-194.	1.7	12
16	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
17	SPLINE DIFFERENCE SCHEME FOR TWO-PARAMETER SINGULARLY PERTURBED PARTIAL DIFFERENTIAL EQUATIONS. Journal of Applied Mathematics & Informatics, 2014, 32, 185-201.	0.1	11
18	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

#	ARTICLE	IF	CITATIONS
19	Exponentially fitted methods for solving time fractional nonlinear reactionâ€“diffusion equation. Applied Mathematics and Computation, 2019, 358, 468-490.	1.4	10
20	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
21	Time-fractional nonlinear Swift-Hohenberg equation: Analysis and numerical simulation. AEJ - Alexandria Engineering Journal, 2020, 59, 4491-4510.	3.4	9
22	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
23	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
24	Study on Heat and Mass Transfer During Urea Prilling Process. International Journal of Chemical Engineering and Applications (IJCEA), 2012, , 347-353.	0.3	7
25	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
26	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
27	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
28	B-spline soliton solution of the fifth order KdV type equations. AIP Conference Proceedings, 2013, , .	0.3	3
29	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
30	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
31	Optimal decision making in multi-channel RF-powered cognitive radio networks with ambient backscatter capability. Computer Networks, 2021, 189, 107907.	3.2	2
32	Cooperative Spectrum Sharing Scheme for Enhancing Primary User Performance under Denial of Service Attack. , 2021, , .		1
33	SEIRS epidemic model with Caputoâ€“Fabrizio fractional derivative and time delay: dynamical analysis and simulation. Ricerche Di Matematica, 0, , 1.	0.6	1
34	Preface of the "1st symposium on computational mathematics and its applications". , 2013, , .		0
35	Preface of the â€œSecond symposium on computational and applied sciencesâ€, AIP Conference Proceedings, 2015, , .	0.3	0
36	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

#	ARTICLE	IF	CITATIONS
37	Discrete Spline Solution for General Type Variational Problems. Applied Mathematics and Information Sciences, 2017, 11, 659-667.	0.7	0
38	Cooperative Spectrum Sharing Scheme for Enhancing Primary User Performance under Denial of Service Attack. , 2021, , .		0
39	Fractional modelling of conventional solar desalination system. AIP Conference Proceedings, 2022, , .	0.3	0