

# Mohamed Abdel Latif Ramadan

## List of Publications by Year in descending order

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65  
papers

777  
citations

623734

14  
h-index

610901

24  
g-index

66  
all docs

66  
docs citations

66  
times ranked

429  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.2	62
2	Numerical treatment for the modified burgers equation. <i>Mathematics and Computers in Simulation</i> , 2005, 70, 90-98.	4.4	55
3	The use of adomian decomposition method for solving the regularized long-wave equation. <i>Chaos, Solitons and Fractals</i> , 2005, 26, 747-757.	5.1	53
4	A numerical solution of the Burgers's equation using septic B-splines. <i>Chaos, Solitons and Fractals</i> , 2005, 26, 795-804.	5.1	44
5	A numerical solution of the Burgers's equation using septic B-splines. <i>Chaos, Solitons and Fractals</i> , 2005, 26, 1249-1258.	5.1	38
6	Quintic nonpolynomial spline solutions for fourth order two-point boundary value problem. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 1105-1114.	3.3	31
7	Matrix computational collocation approach based on rational Chebyshev functions for nonlinear differential equations. <i>Advances in Difference Equations</i> , 2021, 2021, .	3.5	26
8	On the existence of a positive definite solution of the matrix equation. <i>International Journal of Computer Mathematics</i> , 2001, 76, 331-338.	1.8	24
9	On the matrix equation. <i>Applied Mathematics and Computation</i> , 2006, 173, 992-1013.	2.2	22
10	Partial eigenvalue assignment problem of high order control systems using orthogonality relations. <i>Computers and Mathematics With Applications</i> , 2010, 59, 1918-1928.	2.7	21
11	New Iterative Method for Solving the Fornberg-Whitham Equation and Comparison with Homotopy Perturbation Transform Method. <i>British Journal of Mathematics &amp; Computer Science</i> , 2014, 4, 1213-1227.	0.3	21
12	High order accuracy nonpolynomial spline solutions for 2 <sup>1/4</sup> th order two point boundary value problems. <i>Applied Mathematics and Computation</i> , 2008, 204, 920-927.	2.2	18
13	An efficient offline signature identification method based on Fourier Descriptor and chain codes. <i>International Journal of Biomedical Engineering and Technology</i> , 2011, 5, 1.	0.2	17
14	A Relaxed Gradient Based Algorithm for Solving Extended Sylvester's Conjugate Matrix Equations. <i>Asian Journal of Control</i> , 2014, 16, 1334-1341.	3.0	17
15	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.	1.8	16
16	On the explicit solutions of forms of the Sylvester and the Yakubovich matrix equations. <i>Mathematical and Computer Modelling</i> , 2009, 50, 1400-1408.	2.0	16
17	A fractional-order mathematical model for analyzing the pandemic trend of COVID-19. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 4625-4642.	2.3	15
18	Iterative positive definite solutions of the two nonlinear matrix equations $X \pm AX^2 = I$ . <i>Applied Mathematics and Computation</i> , 2005, 164, 189-200.	2.2	14

#	ARTICLE	IF	CITATIONS
19	Numerical solution of system of first-order delay differential equations using polynomial spline functions. <i>International Journal of Computer Mathematics</i> , 2006, 83, 925-937.	1.8	14
20	On the matrix equation $XH=HX$ and the associated controllability problem. <i>Applied Mathematics and Computation</i> , 2007, 186, 844-859.	2.2	14
21	Numerical studies of the cubic non-linear Schrodinger equation. <i>Nonlinear Dynamics</i> , 2012, 67, 619-627.	5.2	14
22	Necessary and sufficient conditions for the existence of positive definite solutions of the matrix equation $X+AX\hat{A}^T A=I$ . <i>International Journal of Computer Mathematics</i> , 2005, 82, 865-870.	1.8	13
23	A modified gradient-based algorithm for solving extended Sylvester-conjugate matrix equations. <i>Asian Journal of Control</i> , 2018, 20, 228-235.	3.0	13
24	An exponential Chebyshev second kind approximation for solving high-order ordinary differential equations in unbounded domains, with application to Dawson's integral. <i>Journal of the Egyptian Mathematical Society</i> , 2017, 25, 197-205.	1.2	12
25	Improved Block-Pulse Functions for Numerical Solution of Mixed Volterra-Fredholm Integral Equations. <i>Axioms</i> , 2021, 10, 200.	1.9	12
26	On the Existence of Extremal Positive Definite Solutions of a Kind of Matrix Equation. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2005, 6, .	1.0	9
27	A Hessenberg method for the numerical solutions to types of block Sylvester matrix equations. <i>Mathematical and Computer Modelling</i> , 2010, 52, 1716-1727.	2.0	9
28	Two iterative algorithms for the reflexive and Hermitian reflexive solutions of the generalized Sylvester matrix equation. <i>JVC/Journal of Vibration and Control</i> , 2015, 21, 483-492.	2.6	9
29	An accelerated gradient-based iterative algorithm for solving extended Sylvester-conjugate matrix equations. <i>Transactions of the Institute of Measurement and Control</i> , 2018, 40, 341-347.	1.7	9
30	A new hybrid orthonormal Bernstein and improved block-pulse functions method for solving mathematical physics and engineering problems. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 3643-3652.	6.4	9
31	Study of hybrid orthonormal functions method for solving second kind fuzzy Fredholm integral equations. <i>Advances in Difference Equations</i> , 2020, 2020, .	3.5	9
32	Solving Linear and Nonlinear Fractional Differential Equations Using Spline Functions. <i>Abstract and Applied Analysis</i> , 2012, 2012, 1-9.	0.7	8
33	An Approximate Analytical Solution of Higher-Order Linear Differential Equations with Variable Coefficients Using Improved Rational Chebyshev Collocation Method. <i>Applied and Computational Mathematics</i> , 2014, 3, 315.	0.3	8
34	Iterative algorithm for solving a class of general Sylvester-conjugate matrix equation $\sum_{i=1}^s A_i V + \sum_{j=1}^t B_j W = \sum_{l=1}^m \overline{E_l} F_l + C$ . <i>Journal of Applied Mathematics and Computing</i> , 2014, 44, 99-118.	2.5	7
35	Numerical solution of high-order linear integro differential equations with variable coefficients using two proposed schemes for rational Chebyshev functions. <i>New Trends in Mathematical Sciences</i> , 2016, 4, 22-22.	0.2	7
36	An efficient hybrid method for solving fredholm integral equations using triangular functions. <i>New Trends in Mathematical Sciences</i> , 2017, 1, 213-224.	0.2	7

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37	Periodic and Non Periodic (Complex) Behavior of a Model of Bioreactor With Cell Recycling. Journal of Mathematics and Statistics, 2007, 3, 1-11.	0.2	7
38	Numerical Solution of Volterra-Fredholm Integral Equations Using Hybrid Orthonormal Bernstein and Block-Pulse Functions. Asian Research Journal of Mathematics, 2017, 4, 1-14.	0.2	7
39	Spectral collocation method for solving continuous population models for single and interacting species by means of exponential Chebyshev approximation. International Journal of Biomathematics, 2018, 11, 1850109.	2.9	6
40	Solving the generalized coupled Sylvester matrix equations over generalized bisymmetric matrices. Transactions of the Institute of Measurement and Control, 2015, 37, 291-316.	1.7	5
41	The use of polynomial spline functions for the solution of system of second order delay differential equations. International Journal of Computer Mathematics, 2009, 86, 1167-1181.	1.8	4
42	A finite iterative algorithm for the solution of Sylvester-conjugate matrix equations $AV + BW = EVF + C$ . Mathematical and Computer Modelling, 2013, 58, 1738-1754.	2.0	4
43	Explicit and Iterative Methods for Solving the Matrix Equation $AV + BW = EVF + C$ . Asian Journal of Control, 2015, 17, 1070-1080.	3.0	4
44	Highly Accurate Numerical Technique for Population Models via Rational Chebyshev Collocation Method. Mathematics, 2019, 7, 913.	2.2	4
45	The anti-reflexive solutions for the matrix equation $AV + BW = EVF + C$ . Computational and Applied Mathematics, 2019, 38, 1.	2.2	4
46	A projection algorithm for partial eigenvalue assignment problem using implicitly restarted Arnoldi method. JVC/Journal of Vibration and Control, 2013, 19, 367-375.	2.6	3
47	Finite Iterative Algorithm for Solving a Complex of Conjugate and Transpose Matrix Equation. Journal of Discrete Mathematics, 2013, 2013, 1-13.	0.4	3
48	Finite iterative Hermitian-conjugate solutions of the generalized coupled Sylvester-conjugate matrix equations. Computers and Mathematics With Applications, 2018, 75, 3367-3378.	2.7	3
49	Triangular functions based method for the solution of system of linear Fredholm integral equations via an efficient finite iterative algorithm. Journal of Intelligent and Fuzzy Systems, 2020, 38, 2847-2858.	1.4	3
50	Finite Iterative Algorithm for Solving a Class of Complex Matrix Equation with Two Unknowns of General Form. Applied and Computational Mathematics, 2014, 3, 273.	0.3	3
51	A new exponential Chebyshev operational matrix of derivatives for solving high-order ordinary differential equations in unbounded domains. Journal of Modern Methods in Numerical Mathematics, 2016, 7, 19.	0.3	3
52	A Novel Analytical Technique of the Fractional Bagley-Torvik Equations for Motion of a Rigid Plate in Newtonian Fluids. CMES - Computer Modeling in Engineering and Sciences, 2020, 124, 969-983.	1.1	3
53	A numerical method based on hybrid orthonormal Bernstein and improved block-pulse functions for solving Volterra-Fredholm integral equations. Numerical Methods for Partial Differential Equations, 0, , .	3.6	3
54	An algorithm for the multi-input complex eigenvalue assignment problem. Applied Mathematics and Computation, 2003, 140, 455-473.	2.2	2

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55	One-Step New Iterative Method for Solving Bagley-Torvik Fractional Differential Equation. Iranian Journal of Science and Technology, Transaction A: Science, 2019, 43, 2493-2500.	1.5	2
56	A Comparison Study of Numerical Techniques for Solving Ordinary Differential Equations Defined on a Semi-Infinite Domain Using Rational Chebyshev Functions. Journal of Function Spaces, 2021, 2021, 1-12.	0.9	2
57	A Combination of Bernstein and Improved Block-Pulse Functions for Solving a System of Linear Fredholm Integral Equations. Mathematical Problems in Engineering, 2022, 2022, 1-12.	1.1	2
58	A combination of Sylvester block sum and block matrix Kronecker map for explicit solutions of Sylvester system of matrix equations. Mathematical Methods in the Applied Sciences, 2019, 42, 7506-7516.	2.3	1
59	Iterative algorithm for the reflexive solutions of the generalized Sylvester matrix equation. Journal of the Egyptian Mathematical Society, 2019, 27, .	1.2	1
60	A Highly Efficient and Accurate Finite Iterative Method for Solving Linear Two-Dimensional Fredholm Fuzzy Integral Equations of the Second Kind Using Triangular Functions. Mathematical Problems in Engineering, 2020, 2020, 1-16.	1.1	1
61	Double Ramadan Group Integral Transform: Definition and Properties with Applications to Partial Differential Equations. Applied Mathematics and Information Sciences, 2018, 12, 389-396.	0.5	1
62	On the computation of frequency response matrices for systems in second-order form. International Journal of Computer Mathematics, 1994, 52, 211-217.	1.8	0
63	A New Bidiagonal Factorization of Totally Nonnegative Matrices. Journal of Computational and Theoretical Nanoscience, 2016, 13, 8981-8987.	0.4	0
64	Solving Two Coupled Fuzzy Sylvester Matrix Equations Using Iterative Least-squares Solutions. Fuzzy Information and Engineering, 2020, 12, 464-489.	1.7	0
65	(R, S) conjugate solution to coupled Sylvester complex matrix equations with conjugate of two unknowns. Automatika, 2022, 63, 454-462.	2.0	0