Salah M El-Sayed

List of Publications by Year
in descending order

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Version: 2024-02-01

39 papers	1,588 citations	257450 24 h-index	377865 34 g-index
40 all docs	40 docs citations	40 times ranked	739 citing authors

#	Article	IF	Citations
1	A new modification of the Adomian decomposition method for linear and nonlinear operators. Applied Mathematics and Computation, 2001, 122, 393-405.	2.2	238
2	An application of the decomposition method for the generalized KdV and RLW equations. Chaos, Solitons and Fractals, 2003, 17, 869-877.	5.1	121
3	The decomposition method for studying the Kleinâ€“Gordon equation. Chaos, Solitons and Fractals, 2003, 18, 1025-1030.	5.1	110
4	On an Iteration Method for Solving a Class of Nonlinear Matrix Equations. SIAM Journal on Matrix Analysis and Applications, 2002, 23, 632-645.	1.4	98
5	On the solution of the coupled SchrÃ¶dingerâ€“KdV equation by the decomposition method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 313, 82-88.	2.1	77
6	On a generalized fifth order KdV equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 310, 44-51.	2.1	70
7	A comparison of Adomian's decomposition method and wavelet-Galerkin method for solving integro-differential equations. Applied Mathematics and Computation, 2003, 136, 151-159.	2.2	58
8	A numerical simulation and explicit solutions of the generalized Burgersâ€“Fisher equation. Applied Mathematics and Computation, 2004, 152, 403-413.	2.2	58
9	Properties of positive definite solutions of the equation X + Aâˆ—Xâ»Â²A = I. Linear Algebra and Its Applications, 1998, 279, 303-316.	0.9	57
10	A numerical solution of the Kleinâ€“Gordon equation and convergence of the decomposition method. Applied Mathematics and Computation, 2004, 156, 341-353.	2.2	54
11	On the numerical solution of the system of two-dimensional Burgers' equations by the decomposition method. Applied Mathematics and Computation, 2004, 158, 101-109.	2.2	48
12	An application of the ADM to seven-order Sawadaâ€“Kotara equations. Applied Mathematics and Computation, 2004, 157, 93-101.	2.2	48
13	Numerical soliton-like solutions of the potential Kadomtsevâ€“Petviashvili equation by the decomposition method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 320, 192-199.	2.1	45
14	Exact and numerical traveling wave solutions of Whithamâ€“Broerâ€“Kaup equations. Applied Mathematics and Computation, 2005, 167, 1339-1349.	2.2	44
15	A new inversion free iteration for solving the equation <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" Iterative methods for the extremal positive definite solution of the matrix equation <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	2.0	42
16	Brain EEG signal processing for controlling a robotic arm. , 2013, , .	2.0	41
17	On the positive definite solutions of nonlinear matrix equation X+Aâ‹† Xâ»Î´A=Q. Linear Algebra and Its Applications, 2006, 412, 154-160.	0.9	32
18			30

#	Article	IF	Citations
19	On positive definite solutions of the nonlinear matrix equation X+Aâ˜…Xâ^'nA=I. Applied Mathematics and Computation, 2004, 151, 533-541.	2.2	29
20	A numerical method for solving Jaulentâ€"Miodek equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 318, 345-353.	2.1	27
21	Comparing numerical methods for Helmholtz equation model problem. Applied Mathematics and Computation, 2004, 150, 763-773.	2.2	27
22	The decomposition method for solving (2+1)-dimensional Boussinesq equation and (3+1)-dimensional KP equation. Applied Mathematics and Computation, 2004, 157, 523-534.	2.2	27
23	The modified decomposition method for solving nonlinear algebraic equations. Applied Mathematics and Computation, 2002, 132, 589-597.	2.2	25
24	On the existence of a positive definite solution of the matrix equation. International Journal of Computer Mathematics, 2001, 76, 331-338.	1.8	24
25	A numerical solution and an exact explicit solution of the NLS equation. Applied Mathematics and Computation, 2006, 172, 1315-1322.	2.2	24
26	Some properties for the existence of a positive definite solution of matrix equation X+Aâ˜…Xâ^'2mA=I. Applied Mathematics and Computation, 2002, 128, 99-108.	2.2	23
27	Iterative methods for nonlinear matrix equations X+Aâ‹†Xâ^'Î±A=I. Linear Algebra and Its Applications, 2005, 403, 45-52.	0.9	22
28	A numerical implementation of the decomposition method for the Lienard equation. Applied Mathematics and Computation, 2005, 171, 1095-1103.	2.2	18
29	Adomian's decomposition method applied to systems of nonlinear algebraic equations. Applied Mathematics and Computation, 2004, 154, 487-493.	2.2	16
30	An algorithm for computing positive definite solutions of the nonlinear matrix equationXâ€‰+â€‰A*Xâ^'1Aâ€‰=â€‰I. International Journal of Computer Mathematics, 2003, 80, 1527-1534.	1.8	12
31	On positive definite solution of a nonlinear matrix equation. Numerical Linear Algebra With Applications, 2007, 14, 99-113.	1.6	12
32	Data Reduction Using Integrated Adaptive Filters for Energy-Efficient in the Clusters of Wireless Sensor Networks. IEEE Embedded Systems Letters, 2019, 11, 119-122.	1.9	12
33	A direct method for solving circulant tridiagonal block systems of linear equations. Applied Mathematics and Computation, 2005, 165, 23-30.	2.2	8
34	A two-sided iterative method for computing positive definite solutions of a nonlinear matrix equation. ANZIAM Journal, 2003, 45, 145-152.	0.2	6
35	Multi-integral methods for nonlinear boundary-value problems. International Journal of Computer Mathematics, 1999, 71, 259-265.	1.8	4
36	Fault autonomous model handling through integrated adaptiveâ€filters for eliminating deployment faults in wireless sensor networks. IET Wireless Sensor Systems, 2020, 10, 236-241.	1.7	1

#	Article	IF	Citations
37	A multi-integral method for a class of singular two-point boundary value problems. International Journal of Computer Mathematics, 2001, 76, 339-348.	1.8	0
38	An Autonomous Fault-Awareness model adapted for upgrade performance in clusters of homogeneous wireless sensor networks. Wireless Networks, 2020, 26, 5085-5100.	3.0	0
39	POSITIVE DEFINITE SOLUTIONS OF A FAMILY OF NONLINEAR MATRIX EQUATIONS. , 1999, , .		0