

Hariharan G

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Parametric Identification for the Biased Ship Roll Motion Model Using Genocchi Polynomials. Journal of Mathematics, 2022, 2022, 1-9.	0.5	0
2	An efficient operational matrix approach for the solutions of Burgers' and fractional Burgers' equations using wavelets. Journal of Mathematical Chemistry, 2021, 59, 554-573.	0.7	5
3	Wavelet method for steady state immobilized enzyme kinetic model: an operational matrix approach. Journal of Mathematical Chemistry, 2021, 59, 1994-2008.	0.7	0
4	Numerical Solution for Nonlinear Klein-Gordon Equation via Operational Matrix by Clique Polynomial of Complete Graphs. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	0.9	15
5	Wavelet-Based Approximation Algorithms for Some Nonlinear Oscillator Equations Arising in Engineering. Journal of the Institution of Engineers (India): Series C, 2020, 101, 185-192.	0.7	0
6	An efficient wavelet-based optimization algorithm for the solutions of reaction-diffusion equations in biomedicine. Computer Methods and Programs in Biomedicine, 2020, 186, 105218.	2.6	4
7	An Efficient Operational Matrix Method for a Few Nonlinear Differential Equations Using Wavelets. International Journal of Applied and Computational Mathematics, 2019, 5, 1.	0.9	0
8	Analytical expressions of amperometric enzyme kinetics pertaining to the substrate concentration using wavelets. Journal of Mathematical Chemistry, 2019, 57, 1191-1200.	0.7	2
9	An efficient wavelet-based method for the numerical solutions of nonlinear coupled reaction-diffusion equations in biochemical engineering. Journal of Mathematical Chemistry, 2019, 57, 1154-1168.	0.7	2
10	Two Reliable Wavelet Methods to Fitzhugh-Nagumo (FN) and Fractional FN Equations. Forum for Interdisciplinary Mathematics, 2019, , 135-146.	0.8	1
11	Wavelet-Based Analytical Expressions to Steady-State Biofilm Model Arising in Biochemical Engineering. Forum for Interdisciplinary Mathematics, 2019, , 163-177.	0.8	0
12	A New Coupled Wavelet-Based Method Applied to the Nonlinear Reaction-Diffusion Equation Arising in Mathematical Chemistry. Forum for Interdisciplinary Mathematics, 2019, , 147-161.	0.8	0
13	An Efficient Wavelet-Based Spectral Method to Singular Boundary Value Problems. Forum for Interdisciplinary Mathematics, 2019, , 63-91.	0.8	0
14	Wavelet Analysis-An Overview. Forum for Interdisciplinary Mathematics, 2019, , 15-31.	0.8	1
15	Wavelet Method to Film-Pore Diffusion Model for Methylene Blue Adsorption onto Plant Leaf Powders. Forum for Interdisciplinary Mathematics, 2019, , 51-61.	0.8	0
16	Haar Wavelet Method for Solving Some Nonlinear Parabolic Equations. Forum for Interdisciplinary Mathematics, 2019, , 103-117.	0.8	0
17	Shifted Chebyshev Wavelets and Shifted Legendre Wavelets-Preliminaries. Forum for Interdisciplinary Mathematics, 2019, , 33-50.	0.8	0
18	An Efficient Wavelet-Based Approximation Method to Gene Propagation Model Arising in Population Biology. Forum for Interdisciplinary Mathematics, 2019, , 119-134.	0.8	0

#	ARTICLE	IF	CITATIONS
19	Wavelet based spectral approach for solving surface coverage model in an electrochemical arsenic sensor - An operational matrix approach. <i>Electrochimica Acta</i> , 2018, 266, 27-33.	2.6	5
20	Analytical Expressions Pertaining to the Steady State Concentrations of Glucose, Oxygen and Gluconic Acid in a Composite Membrane Using Genocchi Polynomials. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 3529-3539.	1.7	1
21	A novel wavelet approximation method for the solution of nonlinear differential equations with variable coefficients arising in astrophysics. <i>Astrophysics and Space Science</i> , 2018, 363, 1.	0.5	2
22	Two reliable computational methods pertaining to steady state substrate concentration of an immobilized enzyme system. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 2377-2385.	3.4	2
23	A New Spectral Approach on Steady-State Concentration of Species in Porous Catalysts Using Wavelets. <i>Journal of Membrane Biology</i> , 2017, 250, 163-169.	1.0	2
24	Efficient spectral methods for a class of unsteady-state free-surface ship models using wavelets. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2017, 68, 1.	0.7	6
25	Parameter identification for nonlinear damping coefficient from large-amplitude ship roll motion using wavelets. <i>Beni-Suef University Journal of Basic and Applied Sciences</i> , 2017, 6, 138-144.	0.8	7
26	An Optimization Wavelet Method for Multi Variable-order Fractional Differential Equations. <i>Fundamenta Informaticae</i> , 2017, 151, 255-273.	0.3	18
27	A homotopy analysis method for the nonlinear partial differential equations arising in engineering. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2017, 18, 191-200.	1.4	5
28	A Reliable Spectral Method to Reactionâ€“Diffusion Equations in Entrapped-Cell Photobioreactor Packed with Gel Granules Using Chebyshev Wavelets. <i>Journal of Membrane Biology</i> , 2017, 250, 663-670.	1.0	2
29	Wavelet-Based Analytical Algorithm for Solving Steady-State Concentration in Immobilized Glucose Isomerase of Packed-Bed Reactor Model. <i>Journal of Membrane Biology</i> , 2016, 249, 559-568.	1.0	5
30	Wavelet based spectral algorithm for nonlinear dynamical systems arising in ship dynamics. <i>Ocean Engineering</i> , 2016, 126, 321-328.	1.9	3
31	Wavelet Based Analytical Expressions to Steady State Biofilm Model Arising in Biochemical Engineering. <i>Journal of Membrane Biology</i> , 2016, 249, 221-228.	1.0	2
32	An efficient Chebyshev wavelet based analytical algorithm to steady state reactionâ€“diffusion models arising in mathematical chemistry. <i>Journal of Mathematical Chemistry</i> , 2016, 54, 269-285.	0.7	3
33	Reliable Wavelet based Approximation Method for Some Nonlinear Differential Equations. <i>Applied Mathematics and Information Sciences</i> , 2016, 10, 719-727.	0.7	0
34	An efficient wavelet based spectral method to singular boundary value problems. <i>Journal of Mathematical Chemistry</i> , 2015, 53, 2095-2113.	0.7	19
35	A New Wavelet-Based Hybrid Method for Fisher Type Equation. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014, , 501-508.	0.1	0
36	Review of wavelet methods for the solution of reactionâ€“diffusion problems in science and engineering. <i>Applied Mathematical Modelling</i> , 2014, 38, 799-813.	2.2	84

#	ARTICLE	IF	CITATIONS
37	An Efficient Wavelet Analysis Method to Film-Pore Diffusion Model Arising in Mathematical Chemistry. Journal of Membrane Biology, 2014, 247, 339-343.	1.0	4
38	An Efficient Wavelet Based Approximation Method to Steady State Reaction-Diffusion Model Arising in Mathematical Chemistry. Journal of Membrane Biology, 2014, 247, 263-271.	1.0	5
39	An Efficient Legendre Wavelet-Based Approximation Method for a Few Newell-Whitehead and Allen-Cahn Equations. Journal of Membrane Biology, 2014, 247, 371-380.	1.0	26
40	An efficient wavelet based approximation method to water quality assessment model in a uniform channel. Ain Shams Engineering Journal, 2014, 5, 525-532.	3.5	22
41	An Efficient Wavelet-Based Approximation Method to Gene Propagation Model Arising in Population Biology. Journal of Membrane Biology, 2014, 247, 561-570.	1.0	10
42	An Efficient Wavelet Based Approximation Method to Film-Pore Diffusion Model Arising in Chemical Engineering. Springer Proceedings in Mathematics and Statistics, 2014, , 491-500.	0.1	1
43	Two reliable wavelet methods to Fitzhugh-Nagumo (FN) and fractional FN equations. Journal of Mathematical Chemistry, 2013, 51, 2432-2454.	0.7	6
44	The wavelet methods to linear and nonlinear reaction-diffusion model arising in mathematical chemistry. Journal of Mathematical Chemistry, 2013, 51, 2361-2385.	0.7	27
45	The homotopy analysis method applied to the Kolmogorov-Petrovskii-Piskunov (KPP) and fractional KPP equations. Journal of Mathematical Chemistry, 2013, 51, 992-1000.	0.7	24
46	A new coupled wavelet-based method applied to the nonlinear reaction-diffusion equation arising in mathematical chemistry. Journal of Mathematical Chemistry, 2013, 51, 2386-2400.	0.7	26
47	Wavelet Method for a Class of Fractional Klein-Gordon Equations. Journal of Computational and Nonlinear Dynamics, 2013, 8, .	0.7	10
48	Wavelet method to film-pore diffusion model for methylene blue adsorption onto plant leaf powders. Journal of Mathematical Chemistry, 2012, 50, 2775-2785.	0.7	8
49	Wavelet method for a class of space and time fractional telegraph equations. International Journal of Physical Sciences, 2012, 7, .	0.1	3
50	Haar wavelet method for solving some nonlinear Parabolic equations. Journal of Mathematical Chemistry, 2010, 48, 1044-1061.	0.7	61
51	A Comparative Study of a Haar Wavelet Method and a Restrictive Taylor's Series Method for Solving Convection-diffusion Equations. International Journal for Computational Methods in Engineering Science and Mechanics, 2010, 11, 173-184.	1.4	40
52	Haar wavelet in estimating depth profile of soil temperature. Applied Mathematics and Computation, 2009, 210, 119-125.	1.4	42
53	Haar wavelet method for solving Fisher's equation. Applied Mathematics and Computation, 2009, 211, 284-292.	1.4	121
54	A new spectral method applied to immobilized biocatalyst model arising in biochemical engineering. Contemporary Engineering Sciences, 0, 10, 291-304.	0.2	2

#	ARTICLE	IF	CITATIONS
55	Homotopy analysis method to water quality model in a uniform channel. Applied Mathematical Sciences, 0, 7, 1057-1066.	0.0	2
56	An efficient wavelet based approximation method to time fractional Black-Scholes European option pricing problem arising in financial market. Applied Mathematical Sciences, 0, 7, 3445-3456.	0.0	13
57	Chebyshev wavelet based approximation method to some non-linear differential equations arising in engineering. International Journal of Mathematical Analysis, 0, 9, 993-1010.	0.3	5