

Randhir Singh

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Laguerre wavelet method for solving Thomas-Fermi type equations. <i>Engineering With Computers</i> , 2022, 38, 2925-2935.	3.5	10
2	A fast numerical algorithm based on Chebyshev-wavelet technique for solving Thomas-Fermi type equation. <i>Engineering With Computers</i> , 2022, 38, 3409-3422.	3.5	4
3	Numerical simulation of Emden-Fowler integral equation with Green's function type kernel by Gegenbauer-wavelet, Taylor-wavelet and Laguerre-wavelet collocation methods. <i>Mathematics and Computers in Simulation</i> , 2022, 194, 430-444.	2.4	7
4	An Efficient Method for Solving the Generalized Thomas-Fermi and Lane-Emden-Fowler Type Equations with Nonlocal Integral Type Boundary Conditions. <i>International Journal of Applied and Computational Mathematics</i> , 2022, 8, 1.	0.9	3
5	Approximate solutions of aggregation and breakage population balance equations. <i>Journal of Mathematical Analysis and Applications</i> , 2022, 512, 126166.	0.5	6
6	Analytical approximations of three-point generalized Thomas-Fermi and Lane-Emden-Fowler type equations. <i>European Physical Journal Plus</i> , 2022, 137, 1.	1.2	5
7	Numerical solution of system of Emden-Fowler type equations by Bernstein collocation method. <i>Journal of Mathematical Chemistry</i> , 2021, 59, 1117-1138.	0.7	8
8	Numerical Algorithm for Solution of the System of Emden-Fowler Type Equations. <i>International Journal of Applied and Computational Mathematics</i> , 2021, 7, 1.	0.9	14
9	Bernstein and Gegenbauer-wavelet collocation methods for Bratu-like equations arising in electrospinning process. <i>Journal of Mathematical Chemistry</i> , 2021, 59, 2327-2343.	0.7	3
10	Finite volume approximation of multidimensional aggregation population balance equation on triangular grid. <i>Mathematics and Computers in Simulation</i> , 2020, 172, 191-212.	2.4	13
11	Discrete finite volume approach for multidimensional agglomeration population balance equation on unstructured grid. <i>Powder Technology</i> , 2020, 376, 229-240.	2.1	19
12	An iterative technique for solving a class of local and nonlocal elliptic boundary value problems. <i>Journal of Mathematical Chemistry</i> , 2020, 58, 1874-1894.	0.7	5
13	Numerical results of Emden-Fowler boundary value problems with derivative dependence using the Bernstein collocation method. <i>Engineering With Computers</i> , 2020, , 1.	3.5	9
14	Reply to Comment on "Analytical approach for solving population balances: a homotopy perturbation method" (2019) <i>J. Phys. A: Math. Theor.</i> 52 385201. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 388002.	0.7	2
15	An efficient numerical technique for Lane-Emden-Fowler boundary value problems: Bernstein collocation method. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	20
16	Haar wavelet quasilinearization method for numerical solution of Emden-Fowler type equations. <i>Mathematics and Computers in Simulation</i> , 2020, 174, 123-133.	2.4	39
17	Solving Coupled Lane-Emden Equations by Green's Function and Decomposition Technique. <i>International Journal of Applied and Computational Mathematics</i> , 2020, 6, 1.	0.9	5
18	Haar wavelet collocation method for Lane-Emden equations with Dirichlet, Neumann and Neumann-Robin boundary conditions. <i>Journal of Computational and Applied Mathematics</i> , 2019, 346, 150-161.	1.1	67

#	ARTICLE	IF	CITATIONS
19	Finite volume approximation of nonlinear agglomeration population balance equation on triangular grid. <i>Journal of Aerosol Science</i> , 2019, 137, 105430.	1.8	24
20	Analytical approach for solving population balances: a homotopy perturbation method. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 385201.	0.7	37
21	Haar wavelet collocation approach for Lane-Emden equations arising in mathematical physics and astrophysics. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	30
22	A Modified Homotopy Perturbation Method for Nonlinear Singular Lane-Emden Equations Arising in Various Physical Models. <i>International Journal of Applied and Computational Mathematics</i> , 2019, 5, 1.	0.9	17
23	Analytic solution of singular Emden-Fowler-type equations by Green's function and homotopy analysis method. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	18
24	Optimal homotopy analysis method for the non-isothermal reaction-diffusion model equations in a spherical catalyst. <i>Journal of Mathematical Chemistry</i> , 2018, 56, 2579-2590.	0.7	29
25	Convergence of an Iteration of Fifth-Order Using Weaker Conditions on First Order Fractal Derivative in Banach Spaces. <i>International Journal of Computational Methods</i> , 2018, 15, 1850048.	0.8	2
26	Analytical approach for computation of exact and analytic approximate solutions to the system of Lane-Emden-Fowler type equations arising in astrophysics. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	20
27	The optimal modified variational iteration method for the Lane-Emden equations with Neumann and Robin boundary conditions. <i>European Physical Journal Plus</i> , 2017, 132, 1.	1.2	39
28	Numerical solutions of fourth-order Volterra integro-differential equations by the Green's function and decomposition method. <i>Mathematical Sciences</i> , 2016, 10, 159-166.	1.0	6
29	An algorithm based on the variational iteration technique for the Bratu-type and the Lane-Emden problems. <i>Journal of Mathematical Chemistry</i> , 2016, 54, 527-551.	0.7	55
30	A modified homotopy perturbation method for singular time dependent Emden-Fowler equations with boundary conditions. <i>Journal of Mathematical Chemistry</i> , 2016, 54, 918-931.	0.7	21
31	An efficient semi-numerical technique for solving nonlinear singular boundary value problems arising in various physical models. <i>International Journal of Computer Mathematics</i> , 2016, 93, 1330-1346.	1.0	21
32	Numerical Solution of the Time Dependent Emden-Fowler Equations with Boundary Conditions using Modified Decomposition Method. <i>Applied Mathematics and Information Sciences</i> , 2016, 10, 403-408.	0.7	6
33	Adomian decomposition method for solving fragmentation and aggregation population balance equations. <i>Journal of Applied Mathematics and Computing</i> , 2015, 48, 265-292.	1.2	27
34	An efficient approach for solving second-order nonlinear differential equation with Neumann boundary conditions. <i>Journal of Mathematical Chemistry</i> , 2015, 53, 767-790.	0.7	6
35	Approximate Solution of Two-Point Boundary Value Problems Using Adomian Decomposition Method with Green's Function. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2015, 85, 51-61.	0.8	4
36	Approximate Solution of Urysohn Integral Equations Using the Adomian Decomposition Method. <i>Scientific World Journal</i> , The, 2014, 2014, 1-6.	0.8	7

#	ARTICLE	IF	CITATIONS
37	Approximate Series Solution of Nonlinear Singular Boundary Value Problems Arising in Physiology. Scientific World Journal, The, 2014, 2014, 1-10.	0.8	6
38	The Adomian decomposition method with Green's function for solving nonlinear singular boundary value problems. Journal of Applied Mathematics and Computing, 2014, 44, 397-416.	1.2	35
39	Approximate series solution of singular boundary value problems with derivative dependence using Green's function technique. Computational and Applied Mathematics, 2014, 33, 451-467.	1.3	22
40	Approximate series solution of fourth-order boundary value problems using decomposition method with Green's function. Journal of Mathematical Chemistry, 2014, 52, 1099-1118.	0.7	11
41	An efficient numerical technique for the solution of nonlinear singular boundary value problems. Computer Physics Communications, 2014, 185, 1282-1289.	3.0	75
42	A new efficient technique for solving two-point boundary value problems for integro-differential equations. Journal of Mathematical Chemistry, 2014, 52, 2030-2051.	0.7	7
43	Numerical solution of singular boundary value problems using Green's function and improved decomposition method. Journal of Applied Mathematics and Computing, 2013, 43, 409-425.	1.2	44
44	Solving a Class of Singular Two-Point Boundary Value Problems Using New Modified Decomposition Method. , 2013, 2013, 1-11.		16
45	New Approach for Solving a Class of Doubly Singular Two-Point Boundary Value Problems Using Adomian Decomposition Method. Advances in Numerical Analysis, 2012, 2012, 1-22.	0.2	20