Mohamed El-Gamel

List of Publications by Year
in descending order

		623734	677142
40 papers	556 citations	14 h-index	22 g-index
41 all docs	41 docs citations	41 times ranked	240 citing authors

#	Article	IF	Citations
1	On the Galerkin and collocation methods for two-point boundary value problems using sinc bases. Computers and Mathematics With Applications, 2008, 56, 930-941.	2.7	60
2	Sinc-Galerkin method for solving linear sixth-order boundary-value problems. Mathematics of Computation, 2003, 73, 1325-1344.	2.1	57
3	Numerical method for the solution of special nonlinear fourth-order boundary value problems. Applied Mathematics and Computation, 2003, 145, 717-734.	2.2	43
4	A Sincâ€"Collocation method for the linear Fredholm integro-differential equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2007, 58, 380-390.	1.4	39
5	A Wavelet-Galerkin method for a singularly perturbed convection-dominated diffusion equation. Applied Mathematics and Computation, 2006, 181, 1635-1644.	2.2	25
6	On the numerical solution of linear and nonlinear volterra integral and integro-differential equations. Applied Mathematics and Computation, 2010, 217, 3330-3337.	2.2	25
7	Sinc-Collocation Method for Solving Linear and Nonlinear System of Second-Order Boundary Value Problems. Applied Mathematics, 2012, 03, 1627-1633.	0.4	23
8	Sinc and the numerical solution of fifth-order boundary value problems. Applied Mathematics and Computation, 2007, 187, 1417-1433.	2.2	22
9	Legendreâ€"Galerkin method for the linear Fredholm integro-differential equations. Applied Mathematics and Computation, 2014, 243, 789-800.	2.2	22
10	Comparison of the solutions obtained by Adomian decomposition and wavelet-Galerkin methods of boundary-value problems. Applied Mathematics and Computation, 2007, 186, 652-664.	2.2	18
11	A comparison between the Sincâ€"Galerkin and the modified decomposition methods for solving two-point boundary-value problems. Journal of Computational Physics, 2007, 223, 369-383.	3.8	18
12	An Efficient Technique for Finding the Eigenvalues of Fourth-Order Sturm-Liouville Problems. Applied Mathematics, 2012, 03, 920-925.	0.4	17
13	Numerical solution of the Bagley-Torvik equation by Legendre-collocation method. SeMA Journal, 2017, 74, 371-383.	2.0	17
14	Numerical Solution of Troeschâ€™s Problem by Sinc-Collocation Method. Applied Mathematics, 2013, 04, 707-712.	0.4	15
15	Two very accurate and efficient methods for computing eigenvalues of Sturmâ€"Liouville problems. Applied Mathematical Modelling, 2013, 37, 5039-5046.	4.2	14
16	On the solution a of second order singularly-perturbed boundary value problem by the Sinc-Galerkin method. Zeitschrift Fur Angewandte Mathematik Und Physik, 2005, 56, 45-58.	1.4	12
17	The solution of a time-dependent problem by the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si22.gif" display="inline" overflow="scroll"><mml:mi>B</mml:mi></mml:math>-spline method. Journal of Computational and Applied Mathematics, 2014, 267, 254-265.	2.0	10
18	A numerical scheme for solving nonhomogeneous time-dependent problems. Zeitschrift Fur Angewandte Mathematik Und Physik, 2006, 57, 369-383.	1.4	9

#	Article	IF	Citations
19	Sinc-Galerkin method for solving biharmonic problems. Applied Mathematics and Computation, 2014, 247, 386-396.	2.2	9
20	A note on solving the fourth-order parabolic equation by the sinc-Galerkin method. Calcolo, 2015, 52, 327-342.	1.1	8
21	Sinc-Galerkin solution to the clamped plate eigenvalue problem. SeMA Journal, 2017, 74, 165-180.	2.0	7
22	Numerical solution of singular two-point boundary value problems by the collocation method with the Chebyshev bases. SeMA Journal, 2017, 74, 627-641.	2.0	7
23	On the sinc-Galerkin method for triharmonic boundary-value problems. Computers and Mathematics With Applications, 2018, 76, 520-533.	2.7	7
24	Sinc-Galerkin solution to eighth-order boundary value problems. SeMA Journal, 2019, 76, 249-270.	2.0	7
25	An efficient technique for finding the eigenvalues and the eigenelements of fourth-order Sturm-Liouville problems. SeMA Journal, 2017, 74, 37-56.	2.0	6
26	Numerical investigation of the solution of higher-order boundary value problems via Euler matrix method. SeMA Journal, 2018, 75, 349-364.	2.0	6
27	Numerical comparison of sinc-collocation and Chebychev-collocation methods for determining the eigenvalues of Sturm–Liouville problems with parameter-dependent boundary conditions. SeMA Journal, 2014, 66, 29-42.	2.0	5
28	Numerical Solutions for the Time-Dependent Emden-Fowler-Type Equations by B-Spline Method. Applied Mathematics, 2014, 05, 593-600.	0.4	5
29	Chebychev Polynomial Solutions of Twelfth-order Boundary-value Problems. British Journal of Mathematics & Computer Science, 2015, 6, 13-23.	0.3	5
30	B-spline and singular higher-order boundary value problems. SeMA Journal, 2016, 73, 287-307.	2.0	4
31	A fast collocation algorithm for solving the time fractional heat equation. SeMA Journal, 2021, 78, 501-513.	2.0	4
32	Eigenvalues and eigenfunctions of fourth-order sturm-liouville problems using Bernoulli series with Chebychev collocation points. Mathematical Sciences, 2022, 16, 97-104.	1.7	4
33	Error analysis of sinc-Galerkin method for time-dependent partial differential equations. Numerical Algorithms, 2018, 77, 517-533.	1.9	3
34	Novel efficient collocation method for Sturm–Liouville problems with nonlocal integral boundary conditions. SeMA Journal, 2020, 77, 375-388.	2.0	3
35	Numerical Study of a Nonlinear High Order Boundary Value Problems Using Genocchi Collocation Technique. International Journal of Applied and Computational Mathematics, 2022, 8, .	1.6	3
36	Nonlinear second order systems of Fredholm integro-differential equations. SeMA Journal, 2022, 79, 383-396.	2.0	2

#	Article	IF	Citations
37	Generalized Sturm-Liouville Problems and Chebychev Collocation Method. British Journal of Mathematics & Computer Science, 2014, 4, 1124-1133.	0.3	2
38	A numerical solution of Blasius equation on a semi-infinity flat plate. SeMA Journal, 2018, 75, 475-484.	2.0	1
39	A robust numerical algorithm for solving singular boundary value problems in one space dimension by B-spline method. SeMA Journal, 2018, 75, 255-270.	2.0	1
40	On Using Bernstein Scheme for Computation of the Eigenvalues of Fourth-Order Sturm–Liouville Problems. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	1.6	0