

Emran Tohidi

List of Publications by Year in descending order

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61
papers

1,081
citations

430874

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477307

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61
times ranked

570
citing authors

#	ARTICLE	IF	CITATIONS
1	A collocation method based on Bernoulli operational matrix for numerical solution of generalized pantograph equation. <i>Applied Mathematical Modelling</i> , 2013, 37, 4283-4294.	4.2	159
2	A Bessel collocation method for solving fractional optimal control problems. <i>Applied Mathematical Modelling</i> , 2015, 39, 455-465.	4.2	68
3	Legendre spectral collocation method for solving delay fractional optimal control problems. <i>Journal of Computational and Applied Mathematics</i> , 2019, 351, 344-363.	2.0	50
4	A new Bernoulli matrix method for solving second order linear partial differential equations with the convergence analysis. <i>Applied Mathematics and Computation</i> , 2013, 223, 298-310.	2.2	47
5	The spectral method for solving systems of Volterra integral equations. <i>Journal of Applied Mathematics and Computing</i> , 2012, 40, 477-497.	2.5	34
6	Legendre spectral method for the fractional Bratu problem. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 5941-5952.	2.3	32
7	A fourth-order least-squares based reproducing kernel method for one-dimensional elliptic interface problems. <i>Applied Numerical Mathematics</i> , 2021, 162, 124-136.	2.1	31
8	Numerical solution of nonlinear weakly singular partial integro-differential equation via operational matrices. <i>Applied Mathematics and Computation</i> , 2017, 298, 310-321.	2.2	30
9	A Collocation Method Based on the Bernoulli Operational Matrix for Solving High-Order Linear Complex Differential Equations in a Rectangular Domain. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-12.	0.7	27
10	A Collocation Method Based on the Bernoulli Operational Matrix for Solving Nonlinear BVPs Which Arise from the Problems in Calculus of Variation. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-9.	1.1	27
11	A parameterized multi-step Newton method for solving systems of nonlinear equations. <i>Numerical Algorithms</i> , 2016, 71, 631-653.	1.9	27
12	Convergence analysis of Bernoulli matrix approach for one-dimensional matrix hyperbolic equations of the first order. <i>Computers and Mathematics With Applications</i> , 2014, 68, 1-12.	2.7	24
13	Application of Bernoulli matrix method for solving two-dimensional hyperbolic telegraph equations with Dirichlet boundary conditions. <i>Computers and Mathematics With Applications</i> , 2018, 75, 2280-2294.	2.7	23
14	Application of Chebyshev collocation method for solving two classes of non-classical parabolic PDEs. <i>Ain Shams Engineering Journal</i> , 2015, 6, 373-379.	6.1	22
15	Higher order multi-step Jarratt-like method for solving systems of nonlinear equations: Application to PDEs and ODEs. <i>Computers and Mathematics With Applications</i> , 2015, 70, 624-636.	2.7	22
16	A Legendre-Gauss collocation method for neutral functional-differential equations with proportional delays. <i>Advances in Difference Equations</i> , 2013, 2013, .	3.5	20
17	Numerical Solution of Nonlinear Fractional Volterra Integro-Differential Equations via Bernoulli Polynomials. <i>Abstract and Applied Analysis</i> , 2014, 2014, 1-7.	0.7	20
18	A New Matrix Approach For Solving Second-Order Linear Matrix Partial Differential Equations. <i>Mediterranean Journal of Mathematics</i> , 2016, 13, 1353-1376.	0.8	20

#	ARTICLE	IF	CITATIONS
19	A new matrix method for solving two-dimensional time-dependent diffusion equations with Dirichlet boundary conditions. <i>Applied Mathematics and Computation</i> , 2016, 291, 1-13.	2.2	19
20	Two Dimensional Wavelets Collocation Scheme for Linear and Nonlinear Volterra Weakly Singular Partial Integro-Differential Equations. <i>International Journal of Applied and Computational Mathematics</i> , 2018, 4, 1.	1.6	18
21	Legendre Approximation for Solving Linear HPDEs and Comparison with Taylor and Bernoulli Matrix Methods. <i>Applied Mathematics</i> , 2012, 03, 410-416.	0.4	18
22	A New Tau Method for Solving Nonlinear Lane-Emden Type Equations via Bernoulli Operational Matrix of Differentiation. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-9.	0.9	17
23	A New Approach for Solving a Class of Delay Fractional Partial Differential Equations. <i>Mediterranean Journal of Mathematics</i> , 2018, 15, 1.	0.8	17
24	Fourier Operational Matrices of Differentiation and Transmission: Introduction and Applications. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-11.	0.7	16
25	Numerical solution of multi-Pantograph delay boundary value problems via an efficient approach with the convergence analysis. <i>Computational and Applied Mathematics</i> , 2019, 38, 1.	2.2	16
26	Robustness of Operational Matrices of Differentiation for Solving State-Space Analysis and Optimal Control Problems. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-9.	0.7	15
27	Convergence analysis of space-time Jacobi spectral collocation method for solving time-fractional Schrödinger equations. <i>Applied Mathematics and Computation</i> , 2020, 387, 124489.	2.2	15
28	Taylor matrix method for solving linear two-dimensional Fredholm integral equations with Piecewise Intervals. <i>Computational and Applied Mathematics</i> , 2015, 34, 1117-1130.	1.3	13
29	Space-time Chebyshev spectral collocation method for nonlinear time-fractional Burgers equations based on efficient basis functions. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 4117-4136.	2.3	13
30	A high accurate scheme for numerical simulation of two-dimensional mass transfer processes in food engineering. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 2629-2639.	6.4	13
31	An Accurate Space-Time Pseudospectral Method for Solving Nonlinear Multi-Dimensional Heat Transfer Problems. <i>Mediterranean Journal of Mathematics</i> , 2017, 14, 1.	0.8	12
32	A computational method to price with transaction costs under the nonlinear Black-Scholes model. <i>Chaos, Solitons and Fractals</i> , 2019, 127, 291-301.	5.1	12
33	Rigorous convergence analysis of Jacobi spectral Galerkin methods for Volterra integral equations with noncompact kernels. <i>Journal of Computational and Applied Mathematics</i> , 2020, 366, 112403.	2.0	11
34	High accurate pseudo-spectral Galerkin scheme for pantograph type Volterra integro-differential equations with singular kernels. <i>Applied Mathematics and Computation</i> , 2021, 396, 125866.	2.2	11
35	Modal Hermite spectral collocation method for solving multi-dimensional hyperbolic telegraph equations. <i>Computers and Mathematics With Applications</i> , 2018, 75, 3571-3588.	2.7	10
36	An efficient matrix approach for two-dimensional diffusion and telegraph equations with Dirichlet boundary conditions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 545, 123784.	2.6	10

#	ARTICLE	IF	CITATIONS
37	A new least-squares-based reproducing kernel method for solving regular and weakly singular Volterra-Fredholm integral equations with smooth and nonsmooth solutions. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 10772-10784.	2.3	10
38	An Efficient Legendre Pseudospectral Method for Solving Nonlinear Quasi Bang-Bang Optimal Control Problems. <i>Journal of Applied Mathematics, Statistics and Informatics</i> , 2012, 8, 73-85.	0.2	9
39	Legendre Approximation for Solving a Class of Nonlinear Optimal Control Problems. <i>Journal of Mathematical Finance</i> , 2011, 01, 8-13.	0.3	9
40	Numerical solution of time-dependent diffusion equations with nonlocal boundary conditions via a fast matrix approach. <i>Journal of the Egyptian Mathematical Society</i> , 2016, 24, 86-91.	1.2	8
41	A radial basis function Hermite finite difference approach to tackle cash-or-nothing and asset-or-nothing options. <i>Journal of Computational and Applied Mathematics</i> , 2020, 368, 112523.	2.0	8
42	Numerical Solution of a Class of Nonlinear Optimal Control Problems Using Linearization and Discretization. <i>Applied Mathematics</i> , 2011, 02, 646-652.	0.4	8
43	Bernoulli Collocation Method for Solving Linear Multidimensional Diffusion and Wave Equations with Dirichlet Boundary Conditions. <i>Advances in Mathematical Physics</i> , 2017, 2017, 1-15.	0.8	7
44	Generalized mapped nodal Laguerre spectral collocation method for Volterra delay integro-differential equations with noncompact kernels. <i>Computational and Applied Mathematics</i> , 2020, 39, 1.	2.2	7
45	A new high accurate approximate approach to solve optimal control problems of fractional order via efficient basis functions. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 5805-5818.	6.4	7
46	Legendre spectral collocation method for approximating the solution of shortest path problems. <i>Systems Science and Control Engineering</i> , 2015, 3, 62-68.	3.1	6
47	A new spectral integral equation method for solving two-dimensional unsteady advection-diffusion equations via Chebyshev polynomials. <i>Engineering Computations</i> , 2019, 36, 2327-2368.	1.4	6
48	A new WENO based Chebyshev Spectral Volume method for solving one- and two-dimensional conservation laws. <i>Journal of Computational Physics</i> , 2020, 403, 109055.	3.8	6
49	A Legendre reproducing kernel method with higher convergence order for a class of singular two-point boundary value problems. <i>Journal of Applied Mathematics and Computing</i> , 2021, 67, 405-421.	2.5	6
50	A new reproducing kernel-based collocation method with optimal convergence rate for some classes of BVPs. <i>Applied Mathematics and Computation</i> , 2022, 432, 127343.	2.2	6
51	An Efficient Pseudospectral Method for Solving a Class of Nonlinear Optimal Control Problems. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-7.	0.7	5
52	Convergence Analysis of Legendre Pseudospectral Scheme for Solving Nonlinear Systems of Volterra Integral Equations. <i>Advances in Mathematical Physics</i> , 2014, 2014, 1-12.	0.8	5
53	A fourth order product integration rule by using the generalized Euler-Maclaurin summation formula. <i>Journal of Computational and Applied Mathematics</i> , 2018, 335, 334-348.	2.0	5
54	RBF collocation approach to calculate numerically the solution of the nonlinear system of qFDEs. <i>Journal of King Saud University - Science</i> , 2021, 33, 101288.	3.5	5

#	ARTICLE	IF	CITATIONS
55	Bernoulli Matrix Approach for Solving Two Dimensional Linear Hyperbolic Partial Differential Equations with Constant Coefficients. American Journal of Computational and Applied Mathematics, 2012, 2, 136-139.	0.4	5
56	Numerical solution of weakly singular Fredholm integral equations via generalization of the Eulerâ€“Maclaurin summation formula. Journal of Taibah University for Science, 2014, 8, 200-205.	2.5	4
57	High accurate convergent spectral Galerkin methods for nonlinear weakly singular Volterra integro-differential equations. Computational and Applied Mathematics, 2021, 40, 1.	2.2	4
58	An extended block Golubâ€“Kahan algorithm for large algebraic and differential matrix Riccati equations. Computers and Mathematics With Applications, 2020, 79, 2447-2457.	2.7	3
59	A new local non-integer derivative and its application to optimal control problems. AIMS Mathematics, 2022, 7, 16692-16705.	1.6	2
60	A fast and efficient numerical approach for solving advectionâ€“diffusion equations by using hybrid functions. Computational and Applied Mathematics, 2019, 38, 1.	2.2	1
61	Corrigendum to â€œNumerical Solution of Nonlinear Fractional Volterra Integro-Differential Equations via Bernoulli Polynomialsâ€ Abstract and Applied Analysis, 2015, 2015, 1-1.	0.7	0