

Eid H Doha

List of Publications by Year in descending order

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109
papers

3,738
citations

117625

34
h-index

144013

57
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111
all docs

111
docs citations

111
times ranked

1143
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical solutions for variable-order fractional Grossâ€Pitaevskii equation with two spectral collocation approaches. International Journal of Nonlinear Sciences and Numerical Simulation, 2023, 24, 421-435.	1.0	2
2	Pseudospectral methods for the Riesz space-fractional SchrÅdinger equation. , 2022, , 323-353.		1
3	Galerkin operational approach for multi-dimensions fractional differential equations. Communications in Nonlinear Science and Numerical Simulation, 2022, 114, 106608.	3.3	11
4	Spectral Galerkin schemes for a class of multi-order fractional pantograph equations. Journal of Computational and Applied Mathematics, 2021, 384, 113157.	2.0	31
5	A unified spectral collocation method for nonlinear systems of multi-dimensional integral equations with convergence analysis. Applied Numerical Mathematics, 2021, 161, 27-45.	2.1	15
6	Computational aspects of fractional Romanovskiâ€Bessel functions. Computational and Applied Mathematics, 2021, 40, 1.	2.2	5
7	On the rate of convergence of the Legendre spectral collocation method for multi-dimensional nonlinear Volterraâ€Fredholm integral equations. Communications in Theoretical Physics, 2021, 73, 025002.	2.5	12
8	On a discrete fractional stochastic GrÅnwall inequality and its application in the numerical analysis of stochastic FDEs involving a martingale. International Journal of Nonlinear Sciences and Numerical Simulation, 2021, .	1.0	4
9	Fractional Jacobi Galerkin spectral schemes for multi-dimensional time fractional advectionâ€diffusionâ€reaction equations. Engineering With Computers, 2020, , 1.	6.1	4
10	A numerical treatment of the two-dimensional multi-term time-fractional mixed sub-diffusion and diffusion-wave equation. Communications in Nonlinear Science and Numerical Simulation, 2020, 91, 105445.	3.3	10
11	On Romanovskiâ€Jacobi polynomials and their related approximation results. Numerical Methods for Partial Differential Equations, 2020, 36, 1982-2017.	3.6	11
12	Exponential Jacobi-Galerkin method and its applications to multidimensional problems in unbounded domains. Applied Numerical Mathematics, 2020, 157, 88-109.	2.1	15
13	On the connection coefficients and recurrence relations arising from expansions in series of modified generalized Laguerre polynomials: Applications on a semi-infinite domain. Nonlinear Engineering, 2019, 8, 318-327.	2.7	11
14	Shifted Jacobi spectral-Galerkin method for solving hyperbolic partial differential equations. Computers and Mathematics With Applications, 2019, 78, 889-904.	2.7	34
15	Modified Galerkin algorithm for solving multitype fractional differential equations. Mathematical Methods in the Applied Sciences, 2019, 42, 1389-1412.	2.3	44
16	Shifted Jacobiâ€Gauss-collocation with convergence analysis for fractional integro-differential equations. Communications in Nonlinear Science and Numerical Simulation, 2019, 72, 342-359.	3.3	42
17	Fully Legendre Spectral Galerkin Algorithm for Solving Linear One-Dimensional Telegraph Type Equation. International Journal of Computational Methods, 2019, 16, 1850118.	1.3	21
18	Shifted Jacobi spectral collocation method with convergence analysis for solving integro-differential equations and system of integro-differential equations. Nonlinear Analysis: Modelling and Control, 2019, 24, 332-352.	1.6	18

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19	A new operational approach for solving fractional variational problems depending on indefinite integrals. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 57, 246-263.	3.3	19
20	A spectral framework for fractional variational problems based on fractional Jacobi functions. <i>Applied Numerical Mathematics</i> , 2018, 132, 51-72.	2.1	52
21	Spectral technique for solving variable-order fractional Volterra integro-differential equations. <i>Numerical Methods for Partial Differential Equations</i> , 2018, 34, 1659-1677.	3.6	51
22	A numerical approach based on Legendre orthonormal polynomials for numerical solutions of fractional optimal control problems. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 16-30.	2.6	60
23	Numerical algorithm for solving multi-pantograph delay equations on the half-line using Jacobi rational functions with convergence analysis. <i>Acta Mathematicae Applicatae Sinica</i> , 2017, 33, 297-310.	0.7	12
24	Solving fractional optimal control problems within a Chebyshev-Legendre operational technique. <i>International Journal of Control</i> , 2017, 90, 1230-1244.	1.9	42
25	Integral spectral Tchebyshev approach for solving space Riemann-Liouville and Riesz fractional advection-dispersion problems. <i>Advances in Difference Equations</i> , 2017, 2017, .	3.5	18
26	New linearization formulae for the products of Chebyshev polynomials of third and fourth kinds. <i>Rocky Mountain Journal of Mathematics</i> , 2016, 46, .	0.4	7
27	An Efficient Operational Matrix Technique for Multidimensional Variable-Order Time Fractional Diffusion Equations. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016, 11, .	1.2	32
28	A space-time spectral collocation algorithm for the variable order fractional wave equation. <i>SpringerPlus</i> , 2016, 5, 1220.	1.2	8
29	New Tchebyshev-Galerkin operational matrix method for solving linear and nonlinear hyperbolic telegraph type equations. <i>Numerical Methods for Partial Differential Equations</i> , 2016, 32, 1553-1571.	3.6	33
30	Linearization formulae for certain Jacobi polynomials. <i>Ramanujan Journal</i> , 2016, 39, 155-168.	0.7	10
31	A numerical technique based on the shifted Legendre polynomials for solving the time-fractional coupled KdV equations. <i>Calcolo</i> , 2016, 53, 1-17.	1.1	78
32	Modified Jacobi-Bernstein basis transformation and its application to multi-degree reduction of Bézier curves. <i>Journal of Computational and Applied Mathematics</i> , 2016, 302, 369-384.	2.0	5
33	New ultraspherical wavelets collocation method for solving 2nth-order initial and boundary value problems. <i>Journal of the Egyptian Mathematical Society</i> , 2016, 24, 319-327.	1.2	21
34	Jacobi-Gauss-Lobatto collocation method for solving nonlinear reaction-diffusion equations subject to Dirichlet boundary conditions. <i>Applied Mathematical Modelling</i> , 2016, 40, 1703-1716.	4.2	11
35	An Efficient Numerical Scheme for Solving Multi-Dimensional Fractional Optimal Control Problems With a Quadratic Performance Index. <i>Asian Journal of Control</i> , 2015, 17, 2389-2402.	3.0	52
36	A highly accurate Jacobi collocation algorithm for systems of high-order linear differential-difference equations with mixed initial conditions. <i>Mathematical Methods in the Applied Sciences</i> , 2015, 38, 3022-3032.	2.3	15

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37	An Efficient Legendre Spectral Tau Matrix Formulation for Solving Fractional Subdiffusion and Reaction Subdiffusion Equations. <i>Journal of Computational and Nonlinear Dynamics</i> , 2015, 10, .	1.2	35
38	An Accurate Jacobi Pseudospectral Algorithm for Parabolic Partial Differential Equations With Nonlocal Boundary Conditions. <i>Journal of Computational and Nonlinear Dynamics</i> , 2015, 10, .	1.2	12
39	On the coefficients of differentiated expansions and derivatives of chebyshev polynomials of the third and fourth kinds. <i>Acta Mathematica Scientia</i> , 2015, 35, 326-338.	1.0	35
40	An efficient collocation algorithm for multidimensional wave type equations with nonlocal conservation conditions. <i>Applied Mathematical Modelling</i> , 2015, 39, 5616-5635.	4.2	8
41	An efficient numerical scheme based on the shifted orthonormal Jacobi polynomials for solving fractional optimal control problems. <i>Advances in Difference Equations</i> , 2015, 2015, .	3.5	47
42	Numerical solution of initial-boundary system of nonlinear hyperbolic equations. <i>Indian Journal of Pure and Applied Mathematics</i> , 2015, 46, 647-668.	0.5	3
43	A spectral tau algorithm based on Jacobi operational matrix for numerical solution of time fractional diffusion-wave equations. <i>Journal of Computational Physics</i> , 2015, 293, 142-156.	3.8	176
44	New algorithms for solving third- and fifth-order two point boundary value problems based on nonsymmetric generalized Jacobi Petrovâ€Galerkin method. <i>Journal of Advanced Research</i> , 2015, 6, 673-686.	9.5	11
45	On using third and fourth kinds Chebyshev polynomials for solving the integrated forms of high odd-order linear boundary value problems. <i>Journal of the Egyptian Mathematical Society</i> , 2015, 23, 397-405.	1.2	14
46	Two Legendre-Dual-Petrov-Galerkin Algorithms for Solving the Integrated Forms of High Odd-Order Boundary Value Problems. <i>Scientific World Journal, The</i> , 2014, 2014, 1-11.	2.1	7
47	A Pseudospectral Algorithm for Solving Multipantograph Delay Systems on a Semi-Infinite Interval Using Legendre Rational Functions. <i>Abstract and Applied Analysis</i> , 2014, 2014, 1-9.	0.7	3
48	Integrals of Chebyshev polynomials of third and fourth kinds: An application to solution of boundary value problems with polynomial coefficients. <i>Journal of Contemporary Mathematical Analysis</i> , 2014, 49, 296-308.	0.4	5
49	On Generalized Jacobiâ€Bernstein Basis Transformation: Application of Multidegree Reduction of BÃzier Curves and Surfaces. <i>Journal of Computing and Information Science in Engineering</i> , 2014, 14, .	2.7	3
50	A new Jacobi spectral collocation method for solving 1+1 fractional SchrÃdinger equations and fractional coupled SchrÃdinger systems. <i>European Physical Journal Plus</i> , 2014, 129, 1.	2.6	46
51	The operational matrix formulation of the Jacobi tau approximation for space fractional diffusion equation. <i>Advances in Difference Equations</i> , 2014, 2014, .	3.5	30
52	A Jacobi collocation approximation for nonlinear coupled viscous Burgersâ€™ equation. <i>Open Physics</i> , 2014, 12, .	1.7	7
53	A new Jacobi rationalâ€Gauss collocation method for numerical solution of generalized pantograph equations. <i>Applied Numerical Mathematics</i> , 2014, 77, 43-54.	2.1	86
54	Jacobiâ€Gaussâ€Lobatto collocation method for the numerical solution of nonlinear SchrÃdinger equations. <i>Journal of Computational Physics</i> , 2014, 261, 244-255.	3.8	72

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55	A Jacobi rational pseudospectral method for Laneâ€Emden initial value problems arising in astrophysics on a semi-infinite interval. <i>Computational and Applied Mathematics</i> , 2014, 33, 607-619.	1.3	19
56	A shifted Jacobi collocation algorithm for wave type equations with non-local conservation conditions. <i>Open Physics</i> , 2014, 12, .	1.7	2
57	A Chebyshev-Gauss-Radau Scheme For Nonlinear Hyperbolic System Of First Order. <i>Applied Mathematics and Information Sciences</i> , 2014, 8, 535-544.	0.5	30
58	Jacobi rationalâ€Gauss collocation method for Laneâ€Emden equations of astrophysical significance. <i>Nonlinear Analysis: Modelling and Control</i> , 2014, 19, 537-550.	1.6	7
59	New algorithms for solving high even-order differential equations using third and fourth Chebyshevâ€Galerkin methods. <i>Journal of Computational Physics</i> , 2013, 236, 563-579.	3.8	52
60	Efficient spectral-Petrov-Galerkin methods for third- and fifth-order differential equations using general parameters generalized Jacobi polynomials. <i>Quaestiones Mathematicae</i> , 2013, 36, 15-38.	0.6	46
61	Numerical approximations for fractional diffusion equations via a Chebyshev spectral-tau method. <i>Open Physics</i> , 2013, 11, .	1.7	17
62	Efficient Jacobi-Gauss collocation method for solving initial value problems of Bratu type. <i>Computational Mathematics and Mathematical Physics</i> , 2013, 53, 1292-1302.	0.8	12
63	Second kind Chebyshev operational matrix algorithm for solving differential equations of Laneâ€Emden type. <i>New Astronomy</i> , 2013, 23-24, 113-117.	1.8	76
64	On shifted Jacobi spectral approximations for solving fractional differential equations. <i>Applied Mathematics and Computation</i> , 2013, 219, 8042-8056.	2.2	67
65	New spectral-Galerkin algorithms for direct solution of high even-order differential equations using symmetric generalized Jacobi polynomials. <i>Collectanea Mathematica</i> , 2013, 64, 373-394.	0.9	27
66	New Wavelets Collocation Method for Solving Second-Order Multipoint Boundary Value Problems Using Chebyshev Polynomials of Third and Fourth Kinds. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-9.	0.7	23
67	A Jacobi Collocation Method for Solving Nonlinear Burgers-Type Equations. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-12.	0.7	7
68	New Spectral Second Kind Chebyshev Wavelets Algorithm for Solving Linear and Nonlinear Second-Order Differential Equations Involving Singular and Bratu Type Equations. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-9.	0.7	20
69	Efficient Solutions of Multidimensional Sixth-Order Boundary Value Problems Using Symmetric Generalized Jacobi-Galerkin Method. <i>Abstract and Applied Analysis</i> , 2012, 2012, 1-19.	0.7	12
70	A new Jacobi operational matrix: An application for solving fractional differential equations. <i>Applied Mathematical Modelling</i> , 2012, 36, 4931-4943.	4.2	252
71	An efficient direct solver for multidimensional elliptic Robin boundary value problems using a Legendre spectral-Galerkin method. <i>Computers and Mathematics With Applications</i> , 2012, 64, 558-571.	2.7	50
72	Efficient spectral-Petrovâ€Galerkin methods for the integrated forms of third- and fifth-order elliptic differential equations using general parameters generalized Jacobi polynomials. <i>Applied Mathematics and Computation</i> , 2012, 218, 7727-7740.	2.2	22

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73	On shifted Jacobi spectral method for high-order multi-point boundary value problems. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 3802-3810.	3.3	56
74	On the Derivatives of Bernstein Polynomials: An Application for the Solution of High Even-Order Differential Equations. Boundary Value Problems, 2011, 2011, 1-16.	0.7	38
75	A Chebyshev spectral method based on operational matrix for initial and boundary value problems of fractional order. Computers and Mathematics With Applications, 2011, 62, 2364-2373.	2.7	261
76	Integrals of Bernstein polynomials: An application for the solution of high even-order differential equations. Applied Mathematics Letters, 2011, 24, 559-565.	2.7	92
77	Efficient Chebyshev spectral methods for solving multi-term fractional orders differential equations. Applied Mathematical Modelling, 2011, 35, 5662-5672.	4.2	207
78	A Jacobi dual-Petrov-Galerkin method for third- and fifth-order differential equations. Mathematical and Computer Modelling, 2011, 53, 1820-1832.	2.0	55
79	A Jacobi Dual-Petrov-Galerkin Method for Solving Some Odd-Order Ordinary Differential Equations. Abstract and Applied Analysis, 2011, 2011, 1-21.	0.7	19
80	Efficient algorithms for construction of recurrence relations for the expansion and connection coefficients in series of quantum classical orthogonal polynomials. Journal of Advanced Research, 2010, 1, 193-207.	9.5	2
81	Numerical Treatments for Volterra Delay Integro-differential Equations. Computational Methods in Applied Mathematics, 2009, 9, 292-318.	0.8	26
82	A Jacobi spectral Galerkin method for the integrated forms of fourth-order elliptic differential equations. Numerical Methods for Partial Differential Equations, 2009, 25, 712-739.	3.6	49
83	Efficient spectral ultraspherical-Galerkin algorithms for the direct solution of 2nth-order linear differential equations. Applied Mathematical Modelling, 2009, 33, 1982-1996.	4.2	38
84	Jacobi spectral Galerkin method for elliptic Neumann problems. Numerical Algorithms, 2009, 50, 67-91.	1.9	31
85	Efficient spectral ultraspherical-dual-Petrov-Galerkin algorithms for the direct solution of $(2n+1)$ th-order linear differential equations. Mathematics and Computers in Simulation, 2009, 79, 3221-3242.	4.4	35
86	Explicit formulae for the coefficients of integrated expansions of Laguerre and Hermite polynomials and their integrals. Integral Transforms and Special Functions, 2009, 20, 491-503.	1.2	13
87	Efficient spectral-Galerkin algorithms for direct solution of fourth-order differential equations using Jacobi polynomials. Applied Numerical Mathematics, 2008, 58, 1224-1244.	2.1	95
88	Recurrences and explicit formulae for the expansion and connection coefficients in series of classical discrete orthogonal polynomials. Integral Transforms and Special Functions, 2006, 17, 329-353.	1.2	6
89	Recurrence relation approach for expansion and connection coefficients in series of Hahn polynomials. Integral Transforms and Special Functions, 2006, 17, 785-801.	1.2	3
90	On the coefficients of integrated expansions of Bessel polynomials. Journal of Computational and Applied Mathematics, 2006, 187, 58-71.	2.0	3

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91	Efficient spectral-Galerkin algorithms for direct solution for second-order differential equations using Jacobi polynomials. Numerical Algorithms, 2006, 42, 137-164.	1.9	45
92	Accurate spectral solutions for the parabolic and elliptic partial differential equations by the ultraspherical tau method. Journal of Computational and Applied Mathematics, 2005, 181, 24-45.	2.0	27
93	Efficient algorithms for construction of recurrence relations for the expansion and connection coefficients in series of Al-Salam's Carlitz I polynomials. Journal of Physics A, 2005, 38, 10107-10121.	1.6	4
94	Recurrences and explicit formulae for the expansion and connection coefficients in series of Bessel polynomials. Journal of Physics A, 2004, 37, 8045-8063.	1.6	20
95	On the construction of recurrence relations for the expansion and connection coefficients in series of Jacobi polynomials. Journal of Physics A, 2004, 37, 657-675.	1.6	85
96	On the connection coefficients and recurrence relations arising from expansions in series of hermite polynomials. Integral Transforms and Special Functions, 2004, 15, 13-29.	1.2	19
97	Explicit Formulae for the Coefficients of Integrated Expansions of Jacobi Polynomials and Their Integrals. Integral Transforms and Special Functions, 2003, 14, 69-86.	1.2	19
98	On the connection coefficients and recurrence relations arising from expansions in series of Laguerre polynomials. Journal of Physics A, 2003, 36, 5449-5462.	1.6	27
99	On the coefficients of differentiated expansions and derivatives of Jacobi polynomials. Journal of Physics A, 2002, 35, 3467-3478.	1.6	44
100	Efficient Spectral-Galerkin Algorithms for Direct Solution of Second-Order Equations Using Ultraspherical Polynomials. SIAM Journal of Scientific Computing, 2002, 24, 548-571.	2.8	63
101	On the coefficients of integrated expansions and integrals of ultraspherical polynomials and their applications for solving differential equations. Journal of Computational and Applied Mathematics, 2002, 139, 275-298.	2.0	27
102	Title is missing!. Analysis in Theory and Applications, 2001, 17, 69-84.	0.0	3
103	The ultraspherical coefficients of the moments of a general-order derivative of an infinitely differentiable function. Journal of Computational and Applied Mathematics, 1998, 89, 53-72.	2.0	26
104	On the legendre coefficients of the moments of the general order derivative of an infinitely differentiable function. International Journal of Computer Mathematics, 1995, 56, 107-122.	1.8	9
105	The first and second kind chebyshev coefficients of the moments for the general order derivative on an infinitely differentiable function. International Journal of Computer Mathematics, 1994, 51, 21-35.	1.8	38
106	The coefficients of differentiated expansions and derivatives of ultraspherical polynomials. Computers and Mathematics With Applications, 1991, 21, 115-122.	2.7	61
107	An accurate solution of parabolic equations by expansion in ultraspherical polynomials. Computers and Mathematics With Applications, 1990, 19, 75-88.	2.7	28
108	Computational and theoretical aspects of Romanovski-Bessel polynomials and their applications in spectral approximations. Numerical Algorithms, 0, , 1.	1.9	3

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109	Recursive differentiation method: application to the analysis of beams on two parameter foundations. Journal of Theoretical and Applied Mechanics, 0, , 15.	0.5	2