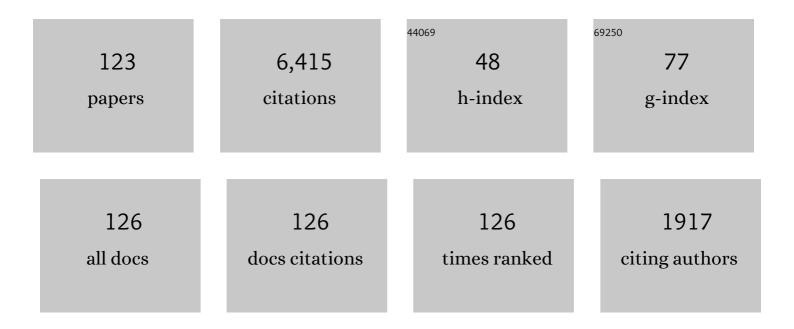
List of Publications by Year in descending order

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ΔΙΙ ΒΗΡΛΙΑΥ

#	Article	IF	CITATIONS
1	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
2	A method based on the Jacobi tau approximation for solving multi-term time–space fractional partial differential equations. Journal of Computational Physics, 2015, 281, 876-895.	3.8	256
3	A new Jacobi operational matrix: An application for solving fractional differential equations. Applied Mathematical Modelling, 2012, 36, 4931-4943.	4.2	252
4	Efficient Chebyshev spectral methods for solving multi-term fractional orders differential equations. Applied Mathematical Modelling, 2011, 35, 5662-5672.	4.2	207
5	Numerical simulation for two-dimensional variable-order fractional nonlinear cable equation. Nonlinear Dynamics, 2015, 80, 101-116.	5.2	190
6	A spectral tau algorithm based on Jacobi operational matrix for numerical solution of time fractional diffusion-wave equations. Journal of Computational Physics, 2015, 293, 142-156.	3.8	176
7	A collocation method based on Bernoulli operational matrix for numerical solution of generalized pantograph equation. Applied Mathematical Modelling, 2013, 37, 4283-4294.	4.2	159
8	A review of operational matrices and spectral techniques for fractional calculus. Nonlinear Dynamics, 2015, 81, 1023-1052.	5.2	154
9	A fully spectral collocation approximation for multi-dimensional fractional SchrĶdinger equations. Journal of Computational Physics, 2015, 294, 462-483.	3.8	151
10	The operational matrix of fractional integration for shifted Chebyshev polynomials. Applied Mathematics Letters, 2013, 26, 25-31.	2.7	145
11	An improved collocation method for multi-dimensional space–time variable-order fractional Schrödinger equations. Applied Numerical Mathematics, 2017, 111, 197-218.	2.1	140
12	Optical solitons in nano-fibers with spatio-temporal dispersion by trial solution method. Optik, 2016, 127, 7250-7257.	2.9	121
13	An efficient Jacobi pseudospectral approximation for nonlinear complex generalized Zakharov system. Applied Mathematics and Computation, 2014, 247, 30-46.	2.2	112
14	A Jacobi–Gauss collocation method for solving nonlinear Lane–Emden type equations. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 62-70.	3.3	111
15	Cnoidal and snoidal wave solutions to coupled nonlinear wave equations by the extended Jacobi's elliptic function method. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 915-925.	3.3	104
16	A quadrature tau method for fractional differential equations with variable coefficients. Applied Mathematics Letters, 2011, 24, 2146-2152.	2.7	99
17	Thirring combo-solitons with cubic nonlinearity and spatio-temporal dispersion. Waves in Random and Complex Media, 2016, 26, 204-210.	2.7	99
18	A new Legendre operational technique for delay fractional optimal control problems. Calcolo, 2016, 53, 521-543.	1.1	99

#	Article	IF	CITATIONS
19	Highly accurate numerical schemes for multi-dimensional space variable-order fractional SchrA¶dinger equations. Computers and Mathematics With Applications, 2017, 73, 1100-1117.	2.7	99
20	Optical solitons in birefringent fibers with spatio-temporal dispersion. Optik, 2014, 125, 4935-4944.	2.9	98
21	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
22	Bright, dark and singular optical solitons in a cascaded system. Laser Physics, 2015, 25, 025402.	1.2	95
23	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
24	Numerical algorithm for the variable-order Caputo fractional functional differential equation. Nonlinear Dynamics, 2016, 85, 1815-1823.	5.2	91
25	Shifted fractional-order Jacobi orthogonal functions: Application to a system of fractional differential equations. Applied Mathematical Modelling, 2016, 40, 832-845.	4.2	90
26	Optical solitons in nonlinear directional couplers with spatio-temporal dispersion. Journal of Modern Optics, 2014, 61, 441-458.	1.3	87
27	A new Jacobi rational–Gauss collocation method for numerical solution of generalized pantograph equations. Applied Numerical Mathematics, 2014, 77, 43-54.	2.1	86
28	A new Bernoulli matrix method for solving high-order linear and nonlinear Fredholm integro-differential equations with piecewise intervals. Applied Mathematics and Computation, 2012, 219, 482-497.	2.2	84
29	A Jacobi spectral collocation method for solving multi-dimensional nonlinear fractional sub-diffusion equations. Numerical Algorithms, 2016, 73, 91-113.	1.9	84
30	A Jacobi–Gauss–Lobatto collocation method for solving generalized Fitzhugh–Nagumo equation with time-dependent coefficients. Applied Mathematics and Computation, 2013, 222, 255-264.	2.2	83
31	A new formula for fractional integrals of Chebyshev polynomials: Application for solving multi-term fractional differential equations. Applied Mathematical Modelling, 2013, 37, 4245-4252.	4.2	82
32	New spectral techniques for systems of fractional differential equations using fractional-order generalized Laguerre orthogonal functions. Fractional Calculus and Applied Analysis, 2014, 17, 1137-1157.	2.2	82
33	A numerical technique based on the shifted Legendre polynomials for solving the time-fractional coupled KdV equations. Calcolo, 2016, 53, 1-17.	1.1	78
34	A space-time Legendre spectral tau method for the two-sided space-time Caputo fractional diffusion-wave equation. Numerical Algorithms, 2016, 71, 151-180.	1.9	78
35	A Spectral Legendre–Gauss–Lobatto Collocation Method for a Space-Fractional Advection Diffusion Equations with Variable Coefficients. Reports on Mathematical Physics, 2013, 72, 219-233.	0.8	75
36	Jacobi–Gauss–Lobatto collocation method for the numerical solution of nonlinear Schrödinger equations. Journal of Computational Physics, 2014, 261, 244-255.	3.8	72

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37	Jacobi spectral collocation approximation for multi-dimensional time-fractional SchrĶdinger equations. Nonlinear Dynamics, 2016, 84, 1553-1567.	5.2	71
38	A shifted Legendre spectral method for fractional-order multi-point boundary value problems. Advances in Difference Equations, 2012, 2012, .	3.5	67
39	On shifted Jacobi spectral approximations for solving fractional differential equations. Applied Mathematics and Computation, 2013, 219, 8042-8056.	2.2	67
40	Solitons and other solutions to quantum Zakharov–Kuznetsov equation in quantum magneto-plasmas. Indian Journal of Physics, 2013, 87, 455-463.	1.8	61
41	A numerical approach based on Legendre orthonormal polynomials for numerical solutions of fractional optimal control problems. JVC/Journal of Vibration and Control, 2017, 23, 16-30.	2.6	60
42	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
43	A Jacobi–Jacobi dual-Petrov–Galerkin method for third- and fifth-order differential equations. Mathematical and Computer Modelling, 2011, 53, 1820-1832.	2.0	55
44	A fractionalâ€order Jacobi Tau method for a class of timeâ€fractional PDEs with variable coefficients. Mathematical Methods in the Applied Sciences, 2016, 39, 1765-1779.	2.3	53
45	An Efficient Numerical Scheme for Solving Multiâ€Dimensional Fractional Optimal Control Problems With a Quadratic Performance Index. Asian Journal of Control, 2015, 17, 2389-2402.	3.0	52
46	Optical solitons in DWDM system with spatio-temporal dispersion. Journal of Nonlinear Optical Physics and Materials, 2015, 24, 1550006.	1.8	51
47	An efficient direct solver for multidimensional elliptic Robin boundary value problems using a Legendre spectral-Galerkin method. Computers and Mathematics With Applications, 2012, 64, 558-571.	2.7	50
48	A Jacobi spectral Galerkin method for the integrated forms of fourthâ€order elliptic differential equations. Numerical Methods for Partial Differential Equations, 2009, 25, 712-739.	3.6	49
49	An efficient numerical scheme based on the shifted orthonormal Jacobi polynomials for solving fractional optimal control problems. Advances in Difference Equations, 2015, 2015, .	3.5	47
50	Numerical simulation of multi-dimensional distributed-order generalized Schrödinger equations. Nonlinear Dynamics, 2017, 89, 1415-1432.	5.2	47
51	A new Jacobi spectral collocation method for solving 1+1 fractional SchrĶdinger equations and fractional coupled SchrĶdinger systems. European Physical Journal Plus, 2014, 129, 1.	2.6	46
52	Numerical Solution of the Two-Sided Space–Time Fractional Telegraph Equation Via Chebyshev Tau Approximation. Journal of Optimization Theory and Applications, 2017, 174, 321-341.	1.5	46
53	Efficient spectral-Galerkin algorithms for direct solution for second-order differential equations using Jacobi polynomials. Numerical Algorithms, 2006, 42, 137-164.	1.9	45
54	Efficient Legendre spectral tau algorithm for solving the two-sided space–time Caputo fractional advection–dispersion equation. JVC/Journal of Vibration and Control, 2016, 22, 2053-2068.	2.6	41

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55	Soliton Solution and Conservation Law of Gear-Grimshaw Model for Shallow Water Waves. Acta Physica Polonica A, 2014, 125, 1099-1107.	0.5	40
56	Efficient generalized Laguerre-spectral methods for solving multi-term fractional differential equations on the half line. JVC/Journal of Vibration and Control, 2014, 20, 973-985.	2.6	40
57	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
58	A new modified generalized Laguerre operational matrix of fractional integration for solving fractional differential equations on the half line. Advances in Difference Equations, 2012, 2012, .	3.5	38
59	A shifted Jacobi-Gauss-Lobatto collocation method for solving nonlinear fractional Langevin equation involving two fractional orders in different intervals. Boundary Value Problems, 2012, 2012,	0.7	35
60	New Numerical Approach for Fractional Variational Problems Using Shifted Legendre Orthonormal Polynomials. Journal of Optimization Theory and Applications, 2017, 174, 295-320.	1.5	34
61	Application of Tanh Method to Complex Coupled Nonlinear Evolution Equations. Acta Physica Polonica A, 2016, 129, 278-283.	0.5	34
62	Bright and dark solitons in a cascaded system. Optik, 2014, 125, 6162-6165.	2.9	32
63	Dispersive Optical Solitons in Nanofibers with SchrĶdinger-Hirota Equation. Journal of Nanoelectronics and Optoelectronics, 2016, 11, 382-387.	0.5	32
64	Jacobi spectral Galerkin method for elliptic Neumann problems. Numerical Algorithms, 2009, 50, 67-91.	1.9	31
65	The operational matrix formulation of the Jacobi tau approximation for space fractional diffusion equation. Advances in Difference Equations, 2014, 2014, .	3.5	30
66	Optical solitons in (1 + 1) and (2 + 1) dimensions. Optik, 2014, 125, 1537-1549.	2.9	30
67	Jacobi Collocation Approximation for Solving Multi-dimensional Volterra Integral Equations. International Journal of Nonlinear Sciences and Numerical Simulation, 2017, 18, 411-425.	1.0	30
68	New spectral-Galerkin algorithms for direct solution of high even-order differential equations using symmetric generalized Jacobi polynomials. Collectanea Mathematica, 2013, 64, 373-394.	0.9	27
69	Optical soliton perturbation with spatio-temporal dispersion in parabolic and dual-power law media by semi-inverse variational principle. Optik, 2014, 125, 4945-4950.	2.9	27
70	A Jacobi Gauss–Lobatto and Gauss–Radau collocation algorithm for solving fractional Fokker–Planck equations. Nonlinear Dynamics, 2015, 82, 1431-1440.	5.2	27
71	New Algorithm for the Numerical Solutions of Nonlinear Third-Order Differential Equations Using Jacobi-Gauss Collocation Method. Mathematical Problems in Engineering, 2011, 2011, 1-14.	1.1	26
72	A highly accurate collocation algorithm for 1 + 1 and 2 + 1 fractional percolation equations. JVC/Journal of Vibration and Control, 2016, 22, 2288-2310.	2.6	23

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73	Bright and singular solitons in quadratic nonlinear media. Journal of Electromagnetic Waves and Applications, 2014, 28, 275-280.	1.6	21
74	A Legendre-Gauss collocation method for neutral functional-differential equations with proportional delays. Advances in Difference Equations, 2013, 2013, .	3.5	20
75	A Jacobi rational pseudospectral method for Lane–Emden initial value problems arising in astrophysics on a semi-infinite interval. Computational and Applied Mathematics, 2014, 33, 607-619.	1.3	19
76	A new operational approach for solving fractional variational problems depending on indefinite integrals. Communications in Nonlinear Science and Numerical Simulation, 2018, 57, 246-263.	3.3	19
77	Numerical approximations for fractional diffusion equations via a Chebyshev spectral-tau method. Open Physics, 2013, 11, .	1.7	17
78	Numerical computation of eigenvalues of discontinuous Sturm–Liouville problems with parameter dependent boundary conditions using sinc method. Numerical Algorithms, 2013, 63, 27-48.	1.9	17
79	Efficient Spectral Collocation Algorithm for a Two-Sided Space Fractional Boussinesq Equation with Non-local Conditions. Mediterranean Journal of Mathematics, 2016, 13, 2483-2506.	0.8	16
80	Optical Solitons for Quadratic Law Nonlinearity with Five Integration Schemes. Journal of Computational and Theoretical Nanoscience, 2015, 12, 4809-4821.	0.4	16
81	A highly accurate Jacobi collocation algorithm for systems of highâ€order linear differential–difference equations with mixed initial conditions. Mathematical Methods in the Applied Sciences, 2015, 38, 3022-3032.	2.3	15
82	An accurate Chebyshev pseudospectral scheme for multi-dimensional parabolic problems with time delays. Boundary Value Problems, 2015, 2015, .	0.7	14
83	Two shifted Jacobi-Gauss collocation schemes for solving two-dimensional variable-order fractional Rayleigh-Stokes problem. Advances in Difference Equations, 2016, 2016, .	3.5	14
84	Numerical computation of the eigenvalues of a discontinuous Dirac system using the sinc method with error analysis. International Journal of Computer Mathematics, 2012, 89, 2061-2080.	1.8	13
85	A space-time collocation scheme for modified anomalous subdiffusion and nonlinear superdiffusion equations. European Physical Journal Plus, 2016, 131, 1.	2.6	13
86	Direct numerical method for isoperimetric fractional variational problems based on operational matrix. JVC/Journal of Vibration and Control, 2018, 24, 3063-3076.	2.6	13
87	A new numerical technique for solving fractional sub-diffusion and reaction sub-diffusion equations with a non-linear source term. Thermal Science, 2015, 19, 25-34.	1.1	13
88	An operational matrix of fractional integration of the Laguerre polynomials and its application on a semi-infinite interval. Mathematical Sciences, 2012, 6, 41.	1.7	12
89	Efficient Jacobi-Gauss collocation method for solving initial value problems of Bratu type. Computational Mathematics and Mathematical Physics, 2013, 53, 1292-1302.	0.8	12
90	Numerical algorithm for solving multi-pantograph delay equations on the half-line using Jacobi rational functions with convergence analysis. Acta Mathematicae Applicatae Sinica, 2017, 33, 297-310.	0.7	12

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91	A Jacobi elliptic function method for nonlinear arrays of vortices. Indian Journal of Physics, 2012, 86, 1107-1113.	1.8	11
92	New Operational Matrices for Solving Fractional Differential Equations on the Half-Line. PLoS ONE, 2015, 10, e0126620.	2.5	11
93	Jacobi–Gauss–Lobatto collocation method for solving nonlinear reaction–diffusion equations subject to Dirichlet boundary conditions. Applied Mathematical Modelling, 2016, 40, 1703-1716.	4.2	11
94	Jacobi spectral Galerkin method for the integrated forms of second-order differential equations. Applied Mathematics and Computation, 2010, 217, 2684-2697.	2.2	10
95	Thirring optical solitons with Kerr law nonlinearity. Optik, 2014, 125, 4932-4934.	2.9	10
96	Approximation of eigenvalues of discontinuous Sturm-Liouville problems with eigenparameter in all boundary conditions. Boundary Value Problems, 2013, 2013, .	0.7	9
97	An efficient spectral collocation algorithm for nonlinear Phi-four equations. Boundary Value Problems, 2013, 2013, .	0.7	9
98	Nonlinear periodic solutions for isothermal magnetostatic atmospheres. Journal of Computational and Applied Mathematics, 2013, 242, 28-40.	2.0	9
99	The operational matrix of Caputo fractional derivatives of modified generalized Laguerre polynomials and its applications. Advances in Difference Equations, 2013, 2013, .	3.5	9
100	A Jacobi Dual-Petrov Galerkin-Jacobi Collocation Method for Solving Korteweg-de Vries Equations. Abstract and Applied Analysis, 2012, 2012, 1-16.	0.7	8
101	An efficient collocation algorithm for multidimensional wave type equations with nonlocal conservation conditions. Applied Mathematical Modelling, 2015, 39, 5616-5635.	4.2	8
102	(G′/G)-expansion method for two-dimensional force-free magnetic fields described by some nonlinear equations. Indian Journal of Physics, 2013, 87, 555-565.	1.8	7
103	A Jacobi collocation approximation for nonlinear coupled viscous Burgers' equation. Open Physics, 2014, 12, .	1.7	7
104	Jacobi rational–Gauss collocation method for Lane–Emden equations of astrophysical significance. Nonlinear Analysis: Modelling and Control, 2014, 19, 537-550.	1.6	7
105	Computation of eigenvalues of discontinuous dirac system using Hermite interpolation technique. Advances in Difference Equations, 2012, 2012, .	3.5	6
106	A Modified Generalized Laguerre-Gauss Collocation Method for Fractional Neutral Functional-Differential Equations on the Half-Line. Abstract and Applied Analysis, 2014, 2014, 1-7.	0.7	6
107	A new exponential Jacobi pseudospectral method for solving high-order ordinary differential equations. Advances in Difference Equations, 2015, 2015, .	3.5	6
108	A New Numerical Algorithm for Solving a Class of Fractional Advection-Dispersion Equation with Variable Coefficients Using Jacobi Polynomials. Abstract and Applied Analysis, 2013, 2013, 1-9.	0.7	5

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109	Modified Jacobi–Bernstein basis transformation and its application to multi-degree reduction of Bézier curves. Journal of Computational and Applied Mathematics, 2016, 302, 369-384.	2.0	5
110	A New Legendre Spectral Galerkin and Pseudo-Spectral Approximations for Fractional Initial Value Problems. Abstract and Applied Analysis, 2013, 2013, 1-10.	0.7	4
111	Approximate Solutions of Fisher's Type Equations with Variable Coefficients. Abstract and Applied Analysis, 2013, 2013, 1-10.	0.7	4
112	New spectral collocation algorithms for one- and two-dimensional Schrödinger equations with a Kerr law nonlinearity. Advances in Difference Equations, 2016, 2016, .	3.5	4
113	Computational study of some nonlinear shallow water equations. Open Physics, 2013, 11, 518-525.	1.7	3
114	Fast Spectral Collocation Method for Solving Nonlinear Time-Delayed Burgers-Type Equations with Positive Power Terms. Abstract and Applied Analysis, 2013, 2013, 1-12.	0.7	3
115	Wavelet based spectral analysis of optical solitons. Optik, 2014, 125, 4589-4594.	2.9	3
116	Numerical solution of initial-boundary system of nonlinear hyperbolic equations. Indian Journal of Pure and Applied Mathematics, 2015, 46, 647-668.	0.5	3
117	Effects of Viscous Dissipation on the Thermal Boundary Layer of Pseudoplastic Power-Law Non-Newtonian Fluids Using Discretization Method and the Boubaker Polynomials Expansion Scheme. ISRN Thermodynamics, 2012, 2012, 1-6.	0.6	3
118	Fractional and Time-Scales Differential Equations. Abstract and Applied Analysis, 2014, 2014, 1-2.	0.7	2
119	A shifted Jacobi collocation algorithm for wave type equations with non-local conservation conditions. Open Physics, 2014, 12, .	1.7	2
120	Jacobi Pseudo-Spectral Method JPSM and BPES for Solving Differential Equations. Differential Equations and Dynamical Systems, 2012, 20, 67-76.	1.0	1
121	Polytropic star structure analysis under Bonnor–Ebert gas sphere astrophysical configuration thorough investigating analytical solutions to the related Lane–Emden equation. Advances in Space Research, 2012, 49, 1062-1066.	2.6	1
122	New Trends on Fractional and Functional Differential Equations. Abstract and Applied Analysis, 2015, 2015, 1-2.	0.7	1
123	Recent Theory and Applications on Numerical Algorithms and Special Functions. Abstract and Applied Analysis, 2015, 2015, 1-1.	0.7	0