Guo-Cheng Wu

List of Publications by Year
in descending order

76 papers	3,434 citations	185998 28 h-index	138251 58 g-index
76 all docs	76 docs citations	76 times ranked	1614 citing authors

#	Article	IF	Citations
1	Discrete fractional logistic map and its chaos. Nonlinear Dynamics, 2014, 75, 283-287.	2.7	383
2	Fractional variational iteration method and its application. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2506-2509.	0.9	276
3	New variable-order fractional chaotic systems for fast image encryption. Chaos, 2019, 29, 083103.	1.0	185
4	Chaos synchronization of the discrete fractional logistic map. Signal Processing, 2014, 102, 96-99.	2.1	168
5	Chaos synchronization of fractional chaotic maps based on the stability condition. Physica A: Statistical Mechanics and Its Applications, 2016, 460, 374-383.	1.2	159
6	Variational iteration method for the Burgersâ€™ flow with fractional derivativesâ€”New Lagrange multipliers. Applied Mathematical Modelling, 2013, 37, 6183-6190.	2.2	128
7	Lyapunov functions for Riemannâ€“Liouville-like fractional difference equations. Applied Mathematics and Computation, 2017, 314, 228-236.	1.4	125
8	Discrete chaos in fractional delayed logistic maps. Nonlinear Dynamics, 2015, 80, 1697-1703.	2.7	122
9	A fractional variational iteration method for solving fractional nonlinear differential equations. Computers and Mathematics With Applications, 2011, 61, 2186-2190.	1.4	120
10	Discrete chaos in fractional sine and standard maps. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 484-487.	0.9	119
11	Variable-order fractional discrete-time recurrent neural networks. Journal of Computational and Applied Mathematics, 2020, 370, 112633.	1.1	114
12	Jacobian matrix algorithm for Lyapunov exponents of the discrete fractional maps. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 95-100.	1.7	110
13	Short memory fractional differential equations for new memristor and neural network design. Nonlinear Dynamics, 2020, 100, 3611-3623.	2.7	84
14	Variational iteration method for fractional calculus - a universal approach by Laplace transform. Advances in Difference Equations, 2013, 2013, .	3.5	82
15	Collocation methods for terminal value problems of tempered fractional differential equations. Applied Numerical Mathematics, 2020, 156, 385-395.	1.2	69
16	Image encryption technique based on fractional chaotic time series. JVC/Journal of Vibration and Control, 2016, 22, 2092-2099.	1.5	68
17	Spline collocation methods for systems of fuzzy fractional differential equations. Chaos, Solitons and Fractals, 2020, 131, 109510.	2.5	68
18	Lattice fractional diffusion equation in terms of a Rieszâ€“Caputo difference. Physica A: Statistical Mechanics and Its Applications, 2015, 438, 335-339.	1.2	64

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19	Novel Mittag-Leffler stability of linear fractional delay difference equations with impulse. Applied Mathematics Letters, 2018, 82, 71-78.	1.5	62
20	Discrete fractional diffusion equation. Nonlinear Dynamics, 2015, 80, 281-286.	2.7	61
21	New fractional signal smoothing equations with short memory and variable order. Optik, 2020, 218, 164507.	1.4	53
22	Discrete fractional calculus for intervalâ€“valued systems. Fuzzy Sets and Systems, 2021, 404, 141-158.	1.6	51
23	New applications of the variational iteration method - from differential equations to q-fractional difference equations. Advances in Difference Equations, 2013, 2013, .	3.5	50
24	Adomian decomposition method for non-smooth initial value problems. Mathematical and Computer Modelling, 2011, 54, 2104-2108.	2.0	39
25	Challenge in the variational iteration method â€“ A new approach to identification of the Lagrange multipliers. Journal of King Saud University - Science, 2013, 25, 175-178.	1.6	35
26	Quadratic spline collocation method for the time fractional subdiffusion equation. Applied Mathematics and Computation, 2016, 276, 252-265.	1.4	34
27	Riesz Riemannâ€“Liouville difference on discrete domains. Chaos, 2016, 26, 084308.	1.0	33
28	A Note on Function Space and Boundedness of the General Fractional Integral in Continuous Time Random Walk. Journal of Nonlinear Mathematical Physics, 2022, 29, 95-102.	0.8	31
29	A High-Order Accurate Numerical Scheme for the Caputo Derivative with Applications to Fractional Diffusion Problems. Numerical Functional Analysis and Optimization, 2018, 39, 600-622.	0.6	30
30	Laplace transform overcoming principle drawbacks in application of the variational iteration method to fractional heat equations. Thermal Science, 2012, 16, 1257-1261.	0.5	29
31	Mittag-Leffler function for discrete fractional modelling. Journal of King Saud University - Science, 2016, 28, 99-102.	1.6	29
32	A fractional characteristic method for solving fractional partial differential equations. Applied Mathematics Letters, 2011, 24, 1046-1050.	1.5	28
33	Existence results of fractional differential equations with Rieszâ€“Caputo derivative. European Physical Journal: Special Topics, 2017, 226, 3411-3425.	1.2	26
34	Fractional q-deformed chaotic maps: A weight function approach. Chaos, 2020, 30, 121106.	1.0	26
35	A novel shuffling technique based on fractional chaotic maps. Optik, 2018, 168, 553-562.	1.4	25
36	Variational iteration method for solving the time-fractional diffusion equations in porous medium. Chinese Physics B, 2012, 21, 120504.	0.7	24

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37	Mittag-Leffler stability analysis of fractional discrete-time neural networks via fixed point technique. Nonlinear Analysis: Modelling and Control, 2019, 24, .	1.1	23
38	Fractional discrete-time diffusion equation with uncertainty: Applications of fuzzy discrete fractional calculus. Physica A: Statistical Mechanics and Its Applications, 2018, 508, 166-175.	1.2	22
39	A new method for constructing soliton solutions and periodic solutions of nonlinear evolution equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 604-609.	0.9	20
40	Discrete Fractional Diffusion Equation of Chaotic Order. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650013.	0.7	17
41	Positive solutions of fractional differential equations with the Riesz space derivative. Applied Mathematics Letters, 2019, 95, 59-64.	1.5	17
42	Distributed Nesterov Gradient and Heavy-Ball Double Accelerated Asynchronous Optimization. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 5723-5737.	7.2	17
43	Variational iteration method as a kernel constructive technique. Applied Mathematical Modelling, 2015, 39, 4378-4384.	2.2	16
44	Fractional calculus with exponential memory. Chaos, 2021, 31, 031103.	1.0	15
45	A new method for constructing soliton solutions to differential-difference equation with symbolic computation. Chaos, Solitons and Fractals, 2009, 39, 2245-2248.	2.5	14
46	Differential-difference model for textile engineering. Chaos, Solitons and Fractals, 2009, 42, 352-354.	2.5	14
47	A generalized Tu formula and Hamiltonian structures of fractional AKNS hierarchy. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3659-3663.	0.9	13
48	Variational Iteration Method forq-Difference Equations of Second Order. Journal of Applied Mathematics, 2012, 2012, 1-5.	0.4	13
49	Numerical solutions of interval-valued fractional nonlinear differential equations. European Physical Journal Plus, 2019, 134, 1.	1.2	13
50	Uniformly constructing soliton solutions and periodic solutions to Burgersâ€“Fisher equation. Computers and Mathematics With Applications, 2009, 58, 2355-2357.	1.4	11
51	Several Fractional Differences and Their Applications to Discrete Maps. Journal of Applied Nonlinear Dynamics, 2015, 4, 339-348.	0.1	11
52	Lie Group Classifications and Non-differentiable Solutions for Time-Fractional Burgers Equation. Communications in Theoretical Physics, 2011, 55, 1073-1076.	1.1	9
53	Stochastic reliable synchronization for coupled Markovian reactionâ€“diffusion neural networks with actuator failures and generalized switching policies. Applied Mathematics and Computation, 2019, 357, 88-106.	1.4	9
54	Uniformly constructing exact discrete soliton solutions and periodic solutions to differentialâ€“difference equations. Computers and Mathematics With Applications, 2009, 58, 2351-2354.	1.4	7

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55	Reprint of: Chaos synchronization of the discrete fractional logistic map. Signal Processing, 2015, 107, 444-447.	2.1	7
56	Analysis of fractional non-linear diffusion behaviors based on Adomian polynomials. Thermal Science, 2017, 21, 813-817.	0.5	7
57	New semi-analytical solutions of the time-fractional Fokkerâ€“Planck equation by the neural network method. Optik, 2022, 259, 168896.	1.4	7
58	Primalâ€“Dual Fixed Point Algorithms Based on Adapted Metric for Distributed Optimization. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2923-2937.	7.2	6
59	Variational Approach for Fractional Diffusion-Wave Equations on Cantor Sets. Chinese Physics Letters, 2012, 29, 060505.	1.3	5
60	Lattice fractional diffusion equation of random order. Mathematical Methods in the Applied Sciences, 2017, 40, 6054-6060.	1.2	5
61	Parameter estimation of fractional uncertain differential equations via Adams method. Nonlinear Analysis: Modelling and Control, 0, 27, 1-15.	1.1	5
62	Chaos Synchronization of the Fractional Rucklidge System based on New Adomian Polynomials. Journal of Applied Nonlinear Dynamics, 2017, 6, 379-385.	0.1	4
63	Prolongation approach to Lax pairs and BÃcklund transformation of the variable coefficient KdV equation. Chaos, Solitons and Fractals, 2009, 42, 408-411.	2.5	3
64	Solitary-Solution Formulation for Differential-Difference Equations Using an Ancient Chinese Algorithm. Abstract and Applied Analysis, 2012, 2012, 1-6.	0.3	3
65	Variational iteration method â€” a promising technique for constructing equivalent integral equations of fractional order. Open Physics, 2013, 11, .	0.8	3
66	VARIATIONAL ITERATION METHOD FOR SUBDIFFUSION EQUATIONS WITH THE RIEMANN-LIOUVILLE DERIVATIVES. Heat Transfer Research, 2013, 44, 409-415.	0.9	2
67	VARIATIONAL ITERATION METHOD FOR THE q-DIFFUSION EQUATIONS ON TIME SCALES. Heat Transfer Research, 2013, 44, 393-398.	0.9	2
68	Symbolic computation and exact traveling solutions for nonlinear partial differential equations. Journal of Shanghai University, 2008, 12, 481-485.	0.1	1
69	Nonoverlapping Schwarz Waveform Relaxation Algorithm for a Class of Time-Fractional Heat Equations. Fundamenta Informaticae, 2017, 151, 231-240.	0.3	1
70	POROSITY FOR FRACTAL MEDIA. Journal of Porous Media, 2011, 14, 541-544.	1.0	1
71	Non-equidistant partition predictorâ€“corrector method for fractional differential equations with exponential memory. International Journal of Nonlinear Sciences and Numerical Simulation, 2023, 24, 1109-1121.	0.4	1
72	A numerical method and efficient preconditioner for generalized airfoil equations. Applied Mathematics and Computation, 2013, 219, 11451-11459.	1.4	0

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73	Recent Advances on Methods and Applications of Nonlinear Differential Equations. Mathematical Problems in Engineering, 2014, 2014, 1-1.	0.6	0
74	Recent Theory and Applications on Numerical Algorithms and Special Functions. Abstract and Applied Analysis, 2015, 2015, 1-1.	0.3	0
75	New Adomian solutions for two point value problems of fractional order. , 2016, , .		0
76	Semi-conjugacies betweenm-horseshoe maps andn-horseshoe maps. Journal of Difference Equations and Applications, 2017, 23, 1458-1468.	0.7	0