

# Guo-Cheng Wu

## List of Publications by Year in descending order

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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  | Primal–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         |
| 2  | Non-equidistant partition predictor–corrector method for fractional differential equations with exponential memory. International Journal of Nonlinear Sciences and Numerical Simulation, 2023, 24, 1109-1121.  | 0.4 | 1         |
| 3  | New semi-analytical solutions of the time-fractional Fokker–Planck equation by the neural network method. Optik, 2022, 259, 168896.   | 1.4 | 7         |
| 4  | 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        |
| 5  | 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        |
| 6  | Discrete fractional calculus for interval-valued systems. Fuzzy Sets and Systems, 2021, 404, 141-158.   | 1.6 | 51        |
| 7  | Fractional calculus with exponential memory. Chaos, 2021, 31, 031103.   | 1.0 | 15        |
| 8  | Spline collocation methods for systems of fuzzy fractional differential equations. Chaos, Solitons and Fractals, 2020, 131, 109510.   | 2.5 | 68        |
| 9  | Variable-order fractional discrete-time recurrent neural networks. Journal of Computational and Applied Mathematics, 2020, 370, 112633.   | 1.1 | 114       |
| 10 | Fractional q-deformed chaotic maps: A weight function approach. Chaos, 2020, 30, 121106.  | 1.0 | 26        |
| 11 | Short memory fractional differential equations for new memristor and neural network design. Nonlinear Dynamics, 2020, 100, 3611-3623.   | 2.7 | 84        |
| 12 | New fractional signal smoothing equations with short memory and variable order. Optik, 2020, 218, 164507.   | 1.4 | 53        |
| 13 | Collocation methods for terminal value problems of tempered fractional differential equations. Applied Numerical Mathematics, 2020, 156, 385-395.   | 1.2 | 69        |
| 14 | New variable-order fractional chaotic systems for fast image encryption. Chaos, 2019, 29, 083103.   | 1.0 | 185       |
| 15 | Numerical solutions of interval-valued fractional nonlinear differential equations. European Physical Journal Plus, 2019, 134, 1.   | 1.2 | 13        |
| 16 | Positive solutions of fractional differential equations with the Riesz space derivative. Applied Mathematics Letters, 2019, 95, 59-64.  | 1.5 | 17        |
| 17 | Stochastic reliable synchronization for coupled Markovian reaction–diffusion neural networks with actuator failures and generalized switching policies. Applied Mathematics and Computation, 2019, 357, 88-106. | 1.4 | 9         |
| 18 | Mittag-Leffler stability analysis of fractional discrete-time neural networks via fixed point technique. Nonlinear Analysis: Modelling and Control, 2019, 24, .   | 1.1 | 23        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | A novel shuffling technique based on fractional chaotic maps. <i>Optik</i> , 2018, 168, 553-562.   | 1.4 | 25        |
| 20 | Novel Mittag-Leffler stability of linear fractional delay difference equations with impulse. <i>Applied Mathematics Letters</i> , 2018, 82, 71-78.   | 1.5 | 62        |
| 21 | A High-Order Accurate Numerical Scheme for the Caputo Derivative with Applications to Fractional Diffusion Problems. <i>Numerical Functional Analysis and Optimization</i> , 2018, 39, 600-622.      | 0.6 | 30        |
| 22 | Fractional discrete-time diffusion equation with uncertainty: Applications of fuzzy discrete fractional calculus. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 508, 166-175. | 1.2 | 22        |
| 23 | Lattice fractional diffusion equation of random order. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 6054-6060.  | 1.2 | 5         |
| 24 | Semi-conjugacies between $m$ -horseshoe maps and $n$ -horseshoe maps. <i>Journal of Difference Equations and Applications</i> , 2017, 23, 1458-1468.   | 0.7 | 0         |
| 25 | Nonoverlapping Schwarz Waveform Relaxation Algorithm for a Class of Time-Fractional Heat Equations. <i>Fundamenta Informaticae</i> , 2017, 151, 231-240.   | 0.3 | 1         |
| 26 | Lyapunov functions for Riemann-Liouville-like fractional difference equations. <i>Applied Mathematics and Computation</i> , 2017, 314, 228-236.  | 1.4 | 125       |
| 27 | Existence results of fractional differential equations with Riesz-Caputo derivative. <i>European Physical Journal: Special Topics</i> , 2017, 226, 3411-3425.  | 1.2 | 26        |
| 28 | Analysis of fractional non-linear diffusion behaviors based on Adomian polynomials. <i>Thermal Science</i> , 2017, 21, 813-817.  | 0.5 | 7         |
| 29 | Chaos Synchronization of the Fractional Rucklidge System based on New Adomian Polynomials. <i>Journal of Applied Nonlinear Dynamics</i> , 2017, 6, 379-385.  | 0.1 | 4         |
| 30 | Riesz Riemann-Liouville difference on discrete domains. <i>Chaos</i> , 2016, 26, 084308.   | 1.0 | 33        |
| 31 | New Adomian solutions for two point value problems of fractional order. , 2016, , .  |     | 0         |
| 32 | Chaos synchronization of fractional chaotic maps based on the stability condition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 460, 374-383.                                | 1.2 | 159       |
| 33 | Image encryption technique based on fractional chaotic time series. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 2092-2099.   | 1.5 | 68        |
| 34 | Discrete Fractional Diffusion Equation of Chaotic Order. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650013.                              | 0.7 | 17        |
| 35 | Quadratic spline collocation method for the time fractional subdiffusion equation. <i>Applied Mathematics and Computation</i> , 2016, 276, 252-265.  | 1.4 | 34        |
| 36 | Mittag-Leffler function for discrete fractional modelling. <i>Journal of King Saud University - Science</i> , 2016, 28, 99-102.  | 1.6 | 29        |

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|----|---|-----|-----------|
| 37 | Recent Theory and Applications on Numerical Algorithms and Special Functions. Abstract and Applied Analysis, 2015, 2015, 1-1.   | 0.3 | 0         |
| 38 | Variational iteration method as a kernel constructive technique. Applied Mathematical Modelling, 2015, 39, 4378-4384.   | 2.2 | 16        |
| 39 | Discrete fractional diffusion equation. Nonlinear Dynamics, 2015, 80, 281-286.  | 2.7 | 61        |
| 40 | Lattice fractional diffusion equation in terms of a Riesz-Caputo difference. Physica A: Statistical Mechanics and Its Applications, 2015, 438, 335-339.                     | 1.2 | 64        |
| 41 | Reprint of: Chaos synchronization of the discrete fractional logistic map. Signal Processing, 2015, 107, 444-447.   | 2.1 | 7         |
| 42 | Discrete chaos in fractional delayed logistic maps. Nonlinear Dynamics, 2015, 80, 1697-1703.  | 2.7 | 122       |
| 43 | 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       |
| 44 | Several Fractional Differences and Their Applications to Discrete Maps. Journal of Applied Nonlinear Dynamics, 2015, 4, 339-348.  | 0.1 | 11        |
| 45 | Recent Advances on Methods and Applications of Nonlinear Differential Equations. Mathematical Problems in Engineering, 2014, 2014, 1-1.                                     | 0.6 | 0         |
| 46 | 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       |
| 47 | Discrete fractional logistic map and its chaos. Nonlinear Dynamics, 2014, 75, 283-287.  | 2.7 | 383       |
| 48 | Chaos synchronization of the discrete fractional logistic map. Signal Processing, 2014, 102, 96-99.   | 2.1 | 168       |
| 49 | Variational iteration method for fractional calculus - a universal approach by Laplace transform. Advances in Difference Equations, 2013, 2013, .                           | 3.5 | 82        |
| 50 | Variational iteration method " a promising technique for constructing equivalent integral equations of fractional order. Open Physics, 2013, 11, .                          | 0.8 | 3         |
| 51 | Challenge in the variational iteration method " A new approach to identification of the Lagrange multipliers. Journal of King Saud University - Science, 2013, 25, 175-178. | 1.6 | 35        |
| 52 | Variational iteration method for the Burgers flow with fractional derivatives" New Lagrange multipliers. Applied Mathematical Modelling, 2013, 37, 6183-6190.               | 2.2 | 128       |
| 53 | New applications of the variational iteration method - from differential equations to q-fractional difference equations. Advances in Difference Equations, 2013, 2013, .    | 3.5 | 50        |
| 54 | 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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|----|--|-----|-----------|
| 55 | VARIATIONAL ITERATION METHOD FOR SUBDIFFUSION EQUATIONS WITH THE RIEMANN-LIOUVILLE DERIVATIVES. Heat Transfer Research, 2013, 44, 409-415.   | 0.9 | 2         |
| 56 | VARIATIONAL ITERATION METHOD FOR THE q-DIFFUSION EQUATIONS ON TIME SCALES. Heat Transfer Research, 2013, 44, 393-398.  | 0.9 | 2         |
| 57 | Solitary-Solution Formulation for Differential-Difference Equations Using an Ancient Chinese Algorithm. Abstract and Applied Analysis, 2012, 2012, 1-6.                                | 0.3 | 3         |
| 58 | Variational Iteration Method for $q$ -Difference Equations of Second Order. Journal of Applied Mathematics, 2012, 2012, 1-5.   | 0.4 | 13        |
| 59 | Variational iteration method for solving the time-fractional diffusion equations in porous medium. Chinese Physics B, 2012, 21, 120504.  | 0.7 | 24        |
| 60 | Variational Approach for Fractional Diffusion-Wave Equations on Cantor Sets. Chinese Physics Letters, 2012, 29, 060505.  | 1.3 | 5         |
| 61 | 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        |
| 62 | Adomian decomposition method for non-smooth initial value problems. Mathematical and Computer Modelling, 2011, 54, 2104-2108.  | 2.0 | 39        |
| 63 | 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        |
| 64 | A fractional characteristic method for solving fractional partial differential equations. Applied Mathematics Letters, 2011, 24, 1046-1050.  | 1.5 | 28        |
| 65 | A fractional variational iteration method for solving fractional nonlinear differential equations. Computers and Mathematics With Applications, 2011, 61, 2186-2190.                   | 1.4 | 120       |
| 66 | Lie Group Classifications and Non-differentiable Solutions for Time-Fractional Burgers Equation. Communications in Theoretical Physics, 2011, 55, 1073-1076.                           | 1.1 | 9         |
| 67 | POROSITY FOR FRACTAL MEDIA. Journal of Porous Media, 2011, 14, 541-544.  | 1.0 | 1         |
| 68 | Fractional variational iteration method and its application. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2506-2509.                                | 0.9 | 276       |
| 69 | 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        |
| 70 | Differential-difference model for textile engineering. Chaos, Solitons and Fractals, 2009, 42, 352-354.  | 2.5 | 14        |
| 71 | Prolongation approach to Lax pairs and Bäcklund transformation of the variable coefficient KdV equation. Chaos, Solitons and Fractals, 2009, 42, 408-411.                              | 2.5 | 3         |
| 72 | Uniformly constructing exact discrete soliton solutions and periodic solutions to differential-difference equations. Computers and Mathematics With Applications, 2009, 58, 2351-2354. | 1.4 | 7         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Uniformly constructing soliton solutions and periodic solutions to Burgers's Fisher equation. Computers and Mathematics With Applications, 2009, 58, 2355-2357.                                   | 1.4 | 11        |
| 74 | Symbolic computation and exact traveling solutions for nonlinear partial differential equations. Journal of Shanghai University, 2008, 12, 481-485.   | 0.1 | 1         |
| 75 | 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        |
| 76 | Parameter estimation of fractional uncertain differential equations via Adams method. Nonlinear Analysis: Modelling and Control, 0, 27, 1-15.   | 1.1 | 5         |