Jun-Sheng Duan

List of Publications by Year
in descending order

82 papers	1,799 citations	331670 21 h-index	289244 40 g-index
82 all docs	82 docs citations	82 times ranked	835 citing authors

#	Article	IF	Citations
1	A new modification of the Adomian decomposition method for solving boundary value problems for higher order nonlinear differential equations. Applied Mathematics and Computation, 2011, 218, 4090-4118.	2.2	160
2	Convenient analytic recurrence algorithms for the Adomian polynomials. Applied Mathematics and Computation, 2011, 217, 6337-6348.	2.2	145
3	Recurrence triangle for Adomian polynomials. Applied Mathematics and Computation, 2010, 216, 1235-1241.	2.2	121
4	An efficient algorithm for the multivariable Adomian polynomials. Applied Mathematics and Computation, 2010, 217, 2456-2467.	2.2	111
5	Solving coupled Laneâ€“Emden boundary value problems in catalytic diffusion reactions by the Adomian decomposition method. Journal of Mathematical Chemistry, 2014, 52, 255-267.	1.5	95
6	Adomian decomposition method for solving the Volterra integral form of the Laneâ€“Emden equations with initial values and boundary conditions. Applied Mathematics and Computation, 2013, 219, 5004-5019.	2.2	81
7	A new modified Adomian decomposition method and its multistage form for solving nonlinear boundary value problems with Robin boundary conditions. Applied Mathematical Modelling, 2013, 37, 8687-8708.	4.2	67
8	The Adomian decomposition method with convergence acceleration techniques for nonlinear fractional differential equations. Computers and Mathematics With Applications, 2013, 66, 728-736.	2.7	61
9	Solution of the model of beam-type micro- and nano-scale electrostatic actuators by a new modified Adomian decomposition method for nonlinear boundary value problems. International Journal of Non-Linear Mechanics, 2013, 49, 159-169.	2.6	60
10	Time- and space-fractional partial differential equations. Journal of Mathematical Physics, 2005, 46, 013504.	1.1	53
11	A study on the systems of the Volterra integral forms of the Laneâ€“Emden equations by the Adomian decomposition method. Mathematical Methods in the Applied Sciences, 2014, 37, 10-19.	2.3	46
12	Solutions of the initial value problem for nonlinear fractional ordinary differential equations by the Rachâ€“Adomianâ€“Meyers modified decomposition method. Applied Mathematics and Computation, 2012, 218, 8370-8392.	2.2	43
13	Eigenvalue problems for fractional ordinary differential equations. Chaos, Solitons and Fractals, 2013, 46, 46-53.	5.1	41
14	New higher-order numerical one-step methods based on the Adomian and the modified decomposition methods. Applied Mathematics and Computation, 2011, 218, 2810-2828.	2.2	40
15	New recurrence algorithms for the nonclassic Adomian polynomials. Computers and Mathematics With Applications, 2011, 62, 2961-2977.	2.7	34
16	Solution of system of fractional differential equations by Adomian decomposition method. Applied Mathematics, 2007, 22, 7-12.	1.0	32
17	Steady-state concentrations of carbon dioxide absorbed into phenyl glycidyl ether solutions by the Adomian decomposition method. Journal of Mathematical Chemistry, 2015, 53, 1054-1067.	1.5	32
18	Near-field and far-field approximations by the Adomian and asymptotic decomposition methods. Applied Mathematics and Computation, 2011, 217, 5910-5922.	2.2	31

#	Article	IF	Citations
19	The transitive closure, convergence of powers and adjoint of generalized fuzzy matrices. Fuzzy Sets and Systems, 2004, 145, 301-311.	2.7	28
20	Higher order numeric solutions of the Laneâ€“Emden-type equations derived from the multi-stage modified Adomian decomposition method. International Journal of Computer Mathematics, 2017, 94, 197-215.	1.8	26
21	A pull-in parameter analysis for the cantilever NEMS actuator model including surface energy, fringing field and Casimir effects. International Journal of Solids and Structures, 2013, 50, 3511-3518.	2.7	22
22	A reliable modification of the Adomian decomposition method for higherâ€order nonlinear differential equations. Kybernetes, 2013, 42, 282-308.	2.2	21
23	Solving New Fourthâ€“Order Emdenâ€“Fowler-Type Equations by the Adomian Decomposition Method. International Journal for Computational Methods in Engineering Science and Mechanics, 2015, 16, 121-131.	2.1	21
24	On the Solution of Non-Isothermal Reaction-Diffusion Model Equations in a Spherical Catalyst by the Modified Adomian Method. Chemical Engineering Communications, 2015, 202, 1081-1088.	2.6	21
25	An improved model for the cantilever NEMS actuator including the surface energy, fringing field and Casimir effects. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 75, 202-209.	2.7	20
26	Solution of Fractional Differential Equation Systems and Computation of Matrix Mittagâ€“Leffler Functions. Symmetry, 2018, 10, 503.	2.2	19
27	Higher-order numeric Wazwazâ€“El-Sayed modified Adomian decomposition algorithms. Computers and Mathematics With Applications, 2012, 63, 1557-1568.	2.7	18
28	On the Adomian decomposition method for solving the Stefan problem. International Journal of Numerical Methods for Heat and Fluid Flow, 2015, 25, 912-928.	2.8	18
29	Pull-in instability analyses for NEMS actuators with quartic shape approximation. Applied Mathematics and Mechanics (English Edition), 2016, 37, 303-314.	3.6	16
30	Parametrized temperature distribution and efficiency of convective straight fins with temperature-dependent thermal conductivity by a new modified decomposition method. International Journal of Heat and Mass Transfer, 2013, 59, 137-143.	4.8	15
31	A reliable algorithm for positive solutions of nonlinear boundary value problems by the multistage Adomian decomposition method. Open Engineering, 2014, 5, .	1.6	14
32	The zeros of the solutions of the fractional oscillation equation. Fractional Calculus and Applied Analysis, 2014, 17, 10-22.	2.2	14
33	A detailed analysis for the fundamental solution of fractional vibration equation. Open Mathematics, 2015, 13, .	1.0	14
34	New ideas for decomposing nonlinearities in differential equations. Applied Mathematics and Computation, 2011, 218, 1774-1784.	2.2	13
35	On the Effective Region of Convergence of the Decomposition Series Solution. Journal of Algorithms and Computational Technology, 2013, 7, 227-247.	0.7	13
36	The Periodic Solution of Fractional Oscillation Equation with Periodic Input. Advances in Mathematical Physics, 2013, 2013, 1-6.	0.8	13

#	Article	IF	Citations
37	Solving a class of linear nonlocal boundary value problems using the reproducing kernel. Applied Mathematics and Computation, 2015, 265, 1098-1105.	2.2	13
38	The periodic solution of Stokesâ€™ second problem for viscoelastic fluids as characterized by a fractional constitutive equation. Journal of Non-Newtonian Fluid Mechanics, 2014, 205, 11-15.	2.4	12
39	Solution of the Magnetohydrodynamics Jeffery-Hamel Flow Equations by the Modified Adomian Decomposition Method. Advances in Applied Mathematics and Mechanics, 2015, 7, 675-686.	1.2	12
40	The Volterra integral form of the Laneâ€“Emden equation: new derivations and solution by the Adomian decomposition method. Journal of Applied Mathematics and Computing, 2015, 47, 365-379.	2.5	11
41	Fractional model and solution for the Blackâ€Scholes equation. Mathematical Methods in the Applied Sciences, 2018, 41, 697-704.	2.3	9
42	Steady periodic response for a vibration system with distributed order derivatives to periodic excitation. JVC/Journal of Vibration and Control, 2018, 24, 3124-3131.	2.6	9
43	Some Analytical Techniques in Fractional Calculus: Realities and Challenges. Advances in Dynamics, Patterns, Cognition, 2014, , 35-62.	0.3	9
44	Exact and approximate analytic solutions of the thin film flow of fourth-grade fluids by the modified Adomian decomposition method. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 2432-2440.	2.8	8
45	A generalization of the Mittagâ€“Leffler function and solution of system of fractional differential equations. Advances in Difference Equations, 2018, 2018, .	3.5	8
46	Solution of Higher-Order, Multipoint, Nonlinear Boundary Value Problems with High-Order Robin-Type Boundary Conditions by the Adomian Decomposition Method. Applied Mathematics and Information Sciences, 2016, 10, 1231-1242.	0.5	8
47	Mechanical response and simulation for constitutive equations with distributed order derivatives. International Journal of Modeling, Simulation, and Scientific Computing, 2017, 08, 1750040.	1.4	7
48	Stokesâ€™ second problem of viscoelastic fluids with constitutive equation of distributed-order derivative. Applied Mathematics and Computation, 2018, 331, 130-139.	2.2	7
49	Simultaneous Characterization of Relaxation, Creep, Dissipation, and Hysteresis by Fractional-Order Constitutive Models. Fractal and Fractional, 2021, 5, 36.	3.3	7
50	Analytic approximation of the blowâ€up time for nonlinear differential equations by the ADMâ€“PadÃ© technique. Mathematical Methods in the Applied Sciences, 2013, 36, 1790-1804.	2.3	6
51	A reliable analysis of oxygen diffusion in a spherical cell with nonlinear oxygen uptake kinetics. International Journal of Biomathematics, 2014, 07, 1450020.	2.9	6
52	Similarity Solution for Fractional Diffusion Equation. Abstract and Applied Analysis, 2014, 2014, 1-5.	0.7	6
53	A segmented and weighted Adomian decomposition algorithm for boundary value problem of nonlinear groundwater equation. Mathematical Methods in the Applied Sciences, 2014, 37, 2406-2418.	2.3	6
54	Concentration distribution of fractional anomalous diffusion caused by an instantaneous point source. Applied Mathematics and Mechanics (English Edition), 2003, 24, 1302-1308.	3.6	5

#	Article	IF	Citations
55	Oscillatory shear flow between two parallel plates for viscoelastic constitutive model of distributed-order derivative. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 1137-1148.	2.8	5
56	Comparison of Two Different Analytical Forms of Response for Fractional Oscillation Equation. Fractal and Fractional, 2021, 5, 188.	3.3	5
57	The Mixed Boundary Value Problems and Chebyshev Collocation Method for Caputo-Type Fractional Ordinary Differential Equations. Fractal and Fractional, 2022, 6, 148.	3.3	5
58	Fractional diffusion-wave equations on finite interval by Laplace transform. Integral Transforms and Special Functions, 2014, 25, 220-229.	1.2	4
59	Response of a fractional nonlinear system to harmonic excitation by the averaging method. Open Physics, 2015, 13, .	1.7	4
60	Response analysis of six-parameter fractional constitutive model. Physica Scripta, 2021, 96, 025220.	2.5	4
61	Shrinkage Points of Golden Rectangle, Fibonacci Spirals, and Golden Spirals. Discrete Dynamics in Nature and Society, 2019, 2019, 1-6.	0.9	4
62	Vibration Equation of Fractional Order Describing Viscoelasticity and Viscous Inertia. Open Physics, 2019, 17, 850-856.	1.7	4
63	The periodic response of a fractional oscillator with a spring-pot and an inerter-pot. Journal of Mechanics, 2020, 37, 108-117.	1.4	4
64	Standard Bases of a Vector Space Over a Linearly Ordered Incline. Communications in Algebra, 2011, 39, 1404-1412.	0.6	3
65	Parameter effects on shear stress of Johnsonâ€“Segalman fluid in Poiseuille flow. International Journal of Non-Linear Mechanics, 2013, 55, 140-146.	2.6	3
66	LÃ©vy stable distribution and space-fractional Fokkerâ€“Planck type equation. Journal of King Saud University - Science, 2016, 28, 17-20.	3.5	3
67	A comparison study of steady-state vibrations with single fractional-order and distributed-order derivatives. Open Physics, 2017, 15, 809-818.	1.7	3
68	Calculation of radii and atom numbers of different coordination shells in cubic crystals. Materials Today Communications, 2020, 22, 100768.	1.9	3
69	Simulation of the eigenvalue problem for tapered rotating beams by the modified decomposition method. International Journal for Computational Methods in Engineering Science and Mechanics, 2022, 23, 20-28.	2.1	3
70	Vibration Systems with Fractional-Order and Distributed-Order Derivatives Characterizing Viscoinertia. Fractal and Fractional, 2021, 5, 67.	3.3	3
71	Approximate Solution of Fractional Differential Equation by Quadratic Splines. Fractal and Fractional, 2022, 6, 369.	3.3	3
72	The modified Adomian decomposition method and the noise terms phenomenon for solving nonlinear weakly-singular Volterra and Fredholm integral equations. Open Engineering, 2013, 3, .	1.6	2

#	Article	IF	Citations
73	Fractional diffusion equation in half-space with Robin boundary condition. Open Physics, 2013, 11, .	1.7	2
74	System of linear fractional differential equations and the Mittag-Leffler functions with matrix variable. Journal of Physics: Conference Series, 2018, 1053, 012032.	0.4	2
75	A Modified Fractional Derivative and its Application to Fractional Vibration Equation. Applied Mathematics and Information Sciences, 2016, 10, 1863-1869.	0.5	2
76	Pull-in parameter analysis for the cantilever NEMS actuator considering fringing field and Casimir effects. , 2015, , .		0
77	Steady-state response of fractional vibration system with harmonic excitation. , 2015, , .		0
78	Matrix Mittag-Leffler function and solution of multi-term fractional differential equations. International Journal of Dynamical Systems and Differential Equations, 2020, 10, 401.	0.0	0
79	On the Power Series Expansion of a Nonlinear Function of a Power Series. Journal of Applied & Computational Mathematics, 2012, 01, .	0.1	0
80	A Generalized Constitutive Equation with Distributed Order Derivative for Viscoelastic SolidA Generalized Constitutive Equation with Distributed Order Derivative for Viscoelastic Solid. International Journal of Materials Mechanics and Manufacturing, 2018, 6, 191-194.	0.2	0
81	Generalized Path Optimization Problem for a Weighted Digraph over an Additively Idempotent Semiring. Journal of Advances in Applied & Computational Mathematics, 2020, 7, 25-31.	0.1	0
82	Identification of system with distributed-order derivatives. Fractional Calculus and Applied Analysis, 2021, 24, 1619-1628.	2.2	0