Guoyuan Qi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93 papers	1,850 citations	24 h-index	39 g-index
106 ext. papers	2,228 ext. citations	3.7 avg, IF	5.76 L-index

#	Paper	IF	Citations
93	Modeling of memristor-based Hindmarsh-Rose neuron and its dynamical analyses using energy method. *Applied Mathematical Modelling*, **2022**, 101, 503-516	4.5	8
92	Time-varying formation dynamics modeling and constrained trajectory optimization of multi-quadrotor UAVs. *Nonlinear Dynamics*, **2021**, 106, 3265	5	3
91	Rare Energy-Conservative Attractors on Global Invariant Hypersurfaces and Their Multistability. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2021**, 31, 2130007	2	4
90	Energy mechanism analysis for chaotic dynamics of gyrostat system and simulation of displacement orbit using COMSOL. *Applied Mathematical Modelling*, **2021**, 92, 333-348	4.5	4
89	Quantum dynamics for Al-doped graphene composite sheet under hydrogen atom impact. *Applied Mathematical Modelling*, **2021**, 90, 1120-1129	4.5	7
88	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-12	7.3	4
87	Breaking of integrability and conservation leading to Hamiltonian chaotic system and its energy-based coexistence analysis. *Chaos*, **2021**, 31, 013101	3.3	3
86	Modeling and Analysis of a Three-Terminal-Memristor-Based Conservative Chaotic System. *Entropy*, **2021**, 23,	2.8	7
85	Abundant Firing Patterns in a Memristive Morris□ecar Neuron Model. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2021**, 31, 2150170	2	1
84	Modeling and staged assessments of the controllability of spread for repeated outbreaks of COVID-19. *Nonlinear Dynamics*, **2021**, 106, 1-14	5	0
83	Characteristic analyzes, experimental testing and control for attitude system of QUAV under disturbance. *Applied Mathematical Modelling*, **2021**, 100, 77-91	4.5	1
82	High-Order Differential Feedback Control for Quadrotor UAV: Theory and Experimentation. *Electronics (Switzerland)*, **2020**, 9, 2001	2.6	1
81	Finding Method and Analysis of Hidden Chaotic Attractors for Plasma Chaotic System From Physical and Mechanistic Perspectives. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2020**, 30, 2050072	2	6
80	Hidden and transient chaotic attractors in the attitude system of quadrotor unmanned aerial vehicle. *Chaos, Solitons and Fractals*, **2020**, 138, 109815	9.3	9
79	Modeling, Synchronization, and FPGA Implementation of Hamiltonian Conservative Hyperchaos. *Complexity*, **2020**, 2020, 1-13	1.6	4
78	Coexisting Attractors, Energy Analysis and Boundary of L□System. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2020**, 30, 2050048	2	3
77	Energy analysis of Sprott-A system and generation of a new Hamiltonian conservative chaotic system with coexisting hidden attractors. *Chaos, Solitons and Fractals*, **2020**, 133, 109635	9.3	15

76	Modelling of both energy and volume conservative chaotic systems and their mechanism analyses. *Communications in Nonlinear Science and Numerical Simulation*, **2020**, 84, 105171	3.7	15
75	Homoclinic bifurcations and chaotic dynamics of non-planar waves in axially moving beam subjected to thermal load. *Applied Mathematical Modelling*, **2020**, 83, 674-682	4.5	17
74	Viscoelastic string-beam coupled vibro-impact system: modeling and dynamic analysis. *European Journal of Mechanics, A/Solids*, **2020**, 82, 104012	3.7	7
73	Analysis of multistability, hidden chaos and transient chaos in brushless DC motor. *Chaos, Solitons and Fractals*, **2020**, 132, 109606	9.3	20
72	Quantum-classical correspondence and mechanical analysis of a classical-quantum chaotic system. *Chinese Physics B*, **2020**, 29, 020502	1.2	3
71	Analysis of second outbreak of COVID-19 after relaxation of control measures in India. *Nonlinear Dynamics*, **2020**, 106, 1-19	5	14
70	Hamiltonian-Based Energy Analysis for Brushless DC Motor Chaotic System. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2020**, 30, 2050112	2	3
69	Effects of control measures on the dynamics of COVID-19 and double-peak behavior in Spain. *Nonlinear Dynamics*, **2020**, 101, 1-11	5	24
68	Modeling of a Hamiltonian conservative chaotic system and its mechanism routes from periodic to quasiperiodic, chaos and strong chaos. *Applied Mathematical Modelling*, **2020**, 78, 350-365	4.5	24
67	Global dynamics of a pipe conveying pulsating fluid in primary parametrical resonance: Analytical and numerical results from the nonlinear wave equation. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2019**, 383, 1555-1562	2.3	18
66	Modeling of a Chaotic Gyrostat System and Mechanism Analysis of Dynamics Using Force and Energy. *Complexity*, **2019**, 2019, 1-13	1.6	6
65	Modeling and Analysis of Chaos and Bifurcations for the Attitude System of a Quadrotor Unmanned Aerial Vehicle. *Complexity*, **2019**, 2019, 1-16	1.6	11
64	Modeling and dynamical analysis of a small-scale unmanned helicopter. *Nonlinear Dynamics*, **2019**, 98, 2131-2145	5	9
63	Comparing mechanical analysis with generalized-competitive-mode analysis for the plasma chaotic system. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2019**, 383, 318-327	2.3	13
62	Modelings and mechanism analysis underlying both the 4D Euler equations and Hamiltonian conservative chaotic systems. *Nonlinear Dynamics*, **2019**, 95, 2063-2077	5	39
61	Local bifurcation analysis of brushless DC motor. *International Transactions on Electrical Energy Systems*, **2019**, 29, e2710	2.2	7
60	Mechanical analysis and bound of plasma chaotic system. *Chaos, Solitons and Fractals*, **2018**, 108, 187-195	9.3	11
59	Fault location on high voltage transmission line by applying support vector regression with fault signal amplitudes. *Electric Power Systems Research*, **2018**, 160, 173-179	3.5	15

58	Analysis of a four-wing fractional-order chaotic system via frequency-domain and time-domain approaches and circuit implementation for secure communication. *Optik*, **2018**, 155, 233-241	2.5	11
57	Mechanical Analysis and Energy Cycle of Chen Chaotic System. *Brazilian Journal of Physics*, **2017**, 47, 288-294	1.2	9
56	Mechanical analysis of Chen chaotic system. *Chaos, Solitons and Fractals*, **2017**, 98, 173-177	9.3	15
55	Energy cycle and bound of Qi chaotic system. *Chaos, Solitons and Fractals*, **2017**, 99, 7-15	9.3	31
54	Energy cycle of brushless DC motor chaotic system. *Applied Mathematical Modelling*, **2017**, 51, 686-697	4.5	27
53	Force Analysis and Energy Operation of Chaotic System of Permanent-Magnet Synchronous Motor. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2017**, 27, 1750216	2	19
52	Mechanism and Energy Cycling of the Qi Four-Wing Chaotic System. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2017**, 27, 1750180	2	22
51	Design of a new multi-wing chaotic system and its application **2017**,		1
50	Mechanical analysis of Qi four-wing chaotic system. *Nonlinear Dynamics*, **2016**, 86, 1095-1106	5	24
49	Force Analysis of Qi Chaotic System. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2016**, 26, 1650237	2	13
48	A multi-wing spherical chaotic system using fractal process. *Nonlinear Dynamics*, **2016**, 85, 2765-2775	5	19
47	A spherical chaotic system. *Nonlinear Dynamics*, **2015**, 81, 1381-1392	5	19
46	Robustness based comparison between a sliding mode controller and a model free controller with the approach of synchronization of nonlinear systems **2015**,		4
45	TOPOLOGICAL HORSESHOE IN A FRACTIONAL-ORDER QI FOUR-WING CHAOTIC SYSTEM. *Journal of Applied Analysis and Computation*, **2015**, 5, 168-176	0.4	1
44	Chaotic Characteristics Analysis and Circuit Implementation for a Fractional-Order System. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2014**, 61, 845-853	3.9	39
43	Hyper-chaos encryption using convolutional masking and model free unmasking. *Chinese Physics B*, **2014**, 23, 050507	1.2	6
42	Sliding mode control of a Rotary Inverted Pendulum using higher order differential observer **2014**,		3
41	Topological horseshoe analysis and circuit realization for a fractional-order L□system. *Nonlinear Dynamics*, **2013**, 74, 203-212	5	31

40	Synchronization of a Class of Fractional-Order Chaotic Neural Networks. *Entropy*, **2013**, 15, 3265-3276	2.8	62
39	Hopf bifurcation analysis and circuit implementation for a novel four-wing hyper-chaotic system. *Chinese Physics B*, **2013**, 22, 080504	1.2	14
38	Four-wing hyperchaotic attractor generated from a new 4D system with one equilibrium and its fractional-order form. *Nonlinear Dynamics*, **2012**, 67, 1161-1173	5	67
37	GENERATION OF AN EIGHT-WING CHAOTIC ATTRACTOR FROM QI 3-D FOUR-WING CHAOTIC SYSTEM. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2012**, 22, 1250287	2	13
36	Model free control based on GIMC structure. *International Journal of Control, Automation and Systems*, **2012**, 10, 173-179	2.9	3
35	Output feedback predictive control for uncertain non-linear switched systems. *International Journal of Modelling, Identification and Control*, **2012**, 17, 195	0.6	3
34	Message Signal Encryption Based on Qi Hyper-Chaos System. *Communications in Computer and Information Science*, **2011**, 145-155	0.3	2
33	Topological horseshoe analysis and the circuit implementation for a four-wing chaotic attractor. *Nonlinear Dynamics*, **2011**, 65, 131-140	5	14
32	Chaotic particle swarm optimization with neural network structure and its application. *Engineering Optimization*, **2011**, 43, 19-37	2	1
31	Fully connected particle swarm optimizer. *Engineering Optimization*, **2011**, 43, 801-812	2	3
30	A four-wing hyper-chaotic attractor and transient chaos generated from a new 4-D quadratic autonomous system. *Nonlinear Dynamics*, **2010**, 59, 515-527	5	77
29	A new type of four-wing chaotic attractors in 3-D quadratic autonomous systems. *Nonlinear Dynamics*, **2010**, 60, 443-457	5	23
28	The effects of fractional order on a 3-D quadratic autonomous system with four-wing attractor. *Nonlinear Dynamics*, **2010**, 62, 139-150	5	12
27	Analysis of a new 3D smooth autonomous system with different wing chaotic attractors and transient chaos. *Nonlinear Dynamics*, **2010**, 62, 391-405	5	57
26	A 3-D four-wing attractor and its analysis. *Brazilian Journal of Physics*, **2009**, 39, 547-553	1.2	21
25	A GENERALIZED 3-D FOUR-WING CHAOTIC SYSTEM. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2009**, 19, 3841-3853	2	2
24	Motion control and stabilization of a Skid-Steering Mobile Robot **2009**,		3
23	Difference Histograms: A new tool for time series analysis applied to bearing fault diagnosis. *Pattern Recognition Letters*, **2009**, 30, 595-599	4.7	28

22	A four-wing attractor and its analysis. *Chaos, Solitons and Fractals*, **2009**, 40, 2016-2030	9.3	25
21	A new hyperchaotic system and its circuit implementation. *Chaos, Solitons and Fractals*, **2009**, 40, 2544-2549	9.3	38
20	Chaotic system synchronization with an unknown master model using a hybrid HOD active control approach. *Chaos, Solitons and Fractals*, **2009**, 42, 1900-1913	9.3	7
19	Chaotic particle swarm optimization **2009**,		6
18	DC motor control via high order differential feedback control **2009**,		5
17	A four-wing chaotic attractor and its circuit implementation. *Journal of Physics: Conference Series*, **2008**, 96, 012057	0.3	1
16	Analysis of a new hyperchaotic system with two large positive Lyapunov exponents. *Journal of Physics: Conference Series*, **2008**, 96, 012056	0.3	
15	On a new hyperchaotic system. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2008**, 372, 124-136	2.3	79
14	On a new asymmetric chaotic system. *Chaos, Solitons and Fractals*, **2008**, 37, 409-423	9.3	27
13	Adaptive high order differential feedback control for affine nonlinear system. *Chaos, Solitons and Fractals*, **2008**, 37, 308-315	9.3	25
12	A four-wing chaotic attractor generated from a new 3-D quadratic autonomous system. *Chaos, Solitons and Fractals*, **2008**, 38, 705-721	9.3	112
11	Image Representation in Differential Space. *Lecture Notes in Computer Science*, **2008**, 624-633	0.9	1
10	A novel hyperchaos system only with one equilibrium. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2007**, 360, 696-701	2.3	97
9	Study of High Order Differential Feedback Control of DC-link Voltage in Active Power Filter **2007**,		3
8	MODEL-FREE HIGH ORDER DIFFERENTIAL STATES OBSERVER FOR NONLINEAR AFFINE SYSTEM. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2007**, 40, 898-903		
7	FOUR-WING ATTRACTORS: FROM PSEUDO TO REAL. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2006**, 16, 859-885	2	53
6	Analysis and circuit implementation of a new 4D chaotic system. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2006**, 352, 386-397	2.3	90
5	Model-free control of affine chaotic systems. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2005**, 344, 189-202	2.3	37

4	Analysis of a new chaotic system. *Physica A: Statistical Mechanics and Its Applications*, **2005**, 352, 295-308	3.3	203
3	Trajectory Tracking of a Quadrotor UAV based on High-Order Differential Feedback Control		0
2	Local bifurcation of brushless DC motor through a mechanical parameter: the viscous damping coefficient. *International Journal of Dynamics and Control*,1	1.7	
1	Chaos control of small-scale UAV helicopter based on high order differential feedback controller. *International Journal of Control*,1-12	1.5	2