Wallace K S Tang

List of Publications by Year
in descending order

106 papers	3,242 citations	201385 27 h-index	161609 54 g-index
107 all docs	107 docs citations	107 times ranked	2387 citing authors

#	Article	IF	Citations
1	GENERATING HYPERCHAOS VIA STATE FEEDBACK CONTROL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 3367-3375.	0.7	396
2	A fast image encryption system based on chaotic maps with finite precision representation. Chaos, Solitons and Fractals, 2007, 32, 1518-1529.	2.5	366
3	Model for rumor spreading over networks. Physical Review E, 2010, 81, 056102.	0.8	173
4	Suppressing electromagnetic interference in direct current converters. IEEE Circuits and Systems Magazine, 2009, 9, 10-28.	2.6	153
5	Hyperchaos evolved from the generalized Lorenz equation. International Journal of Circuit Theory and Applications, 2005, 33, 235-251.	1.3	146
6	Controllability of networked MIMO systems. Automatica, 2016, 69, 405-409.	3.0	102
7	A GLOBAL SYNCHRONIZATION CRITERION FOR COUPLED CHAOTIC SYSTEMS VIA UNIDIRECTIONAL LINEAR ERROR FEEDBACK APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 2239-2253.	0.7	86
8	Differential evolution powered by collective information. Information Sciences, 2017, 399, 13-29.	4.0	86
9	A general multiscroll Lorenz system family and its realization via digital signal processors. Chaos, 2006, 16, 033126.	1.0	81
10	Generation of $nimes m$-Wing Lorenz-Like Attractors From a Modified Shimizu–Morioka Model. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 1168-1172.	2.2	75
11	System Design and Performance Analysis of Orthogonal Multi-Level Differential Chaos Shift Keying Modulation Scheme. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 146-156.	3.5	74
12	GENERATION OF n × m-SCROLL ATTRACTORS UNDER A CHUA-CIRCUIT FRAMEWORK. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 3951-3964.	0.7	68
13	CIRCUITRY IMPLEMENTATION AND SYNCHRONIZATION OF CHEN'S ATTRACTOR. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1423-1427.	0.7	62
14	DESIGN AND IMPLEMENTATION OF MULTI-WING BUTTERFLY CHAOTIC ATTRACTORS VIA LORENZ-TYPE SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 29-41.	0.7	61
15	Event-Triggered Protocol for the Consensus of Multi-Agent Systems With State-Dependent Nonlinear Coupling. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 723-732.	3.5	59
16	Synchronization of Multi-Agent Systems With Time-Varying Control and Delayed Communications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4429-4438.	3.5	55
17	Leader Following of Nonlinear Agents With Switching Connective Network and Coupling Delay. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 2508-2519.	3.5	54
18	Distributed estimation over complex networks. Information Sciences, 2012, 197, 91-104.	4.0	44

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19	Consensus of Multi-Agents With Event-Based Nonlinear Coupling Over Time-Varying Digraphs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1969-1973.	2.2	44
20	Multi-Carrier Chaos Shift Keying: System Design and Performance Analysis. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 2182-2194.	3.5	42
21	Consensus of Nonlinear Agents in Directed Network With Switching Topology and Communication Delay. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 3015-3023.	3.5	40
22	A CHAOS-BASED CRYPTOGRAPHIC HASH FUNCTION FOR MESSAGE AUTHENTICATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 4043-4050.	0.7	37
23	Logistical Planning for Electric Vehicles Under Time-Dependent Stochastic Traffic. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3771-3781.	4.7	36
24	A switching scheme for synthesizing attractors of dissipative chaotic systems. Applied Mathematics and Computation, 2008, 201, 650-667.	1.4	32
25	Design of Broadband Hybrid Coupler With Tight Coupling Using Jumping Gene Evolutionary Algorithm. IEEE Transactions on Industrial Electronics, 2009, 56, 2987-2991.	5.2	30
26	Enhanced incremental LMS with norm constraints for distributed in-network estimation. Signal Processing, 2014, 94, 373-385.	2.1	30
27	Suppressing chaos in a simplest autonomous memristor-based circuit of fractional order by periodic impulses. Chaos, Solitons and Fractals, 2016, 84, 31-40.	2.5	29
28	Event-Triggered Synchronization for Nonlinear Multi-Agent Systems With Sampled Data. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 3553-3561.	3.5	29
29	Master–Slave Synchronization of Delayed Neural Networks With Time-Varying Control. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2292-2298.	7.2	29
30	Strip-packing using hybrid genetic approach. Engineering Applications of Artificial Intelligence, 2004, 17, 169-177.	4.3	27
31	Sustaining stable dynamics of a fractional-order chaotic financial system by parameter switching. Computers and Mathematics With Applications, 2013, 66, 702-716.	1.4	26
32	A hybrid genetic approach for garment cutting in the clothing industry. IEEE Transactions on Industrial Electronics, 2003, 50, 449-455.	5.2	25
33	A Theoretical Development and Analysis of Jumping Gene Genetic Algorithm. IEEE Transactions on Industrial Informatics, 2011, 7, 408-418.	7.2	25
34	Generation of n×m-scroll attractors in a two-port RCL network with hysteresis circuits. Chaos, Solitons and Fractals, 2009, 39, 821-830.	2.5	24
35	Multi-layer competitive-cooperative framework for performance enhancement of differential evolution. Information Sciences, 2019, 482, 86-104.	4.0	24
36	Generating 2n-wing attractors from Lorenz-like systems. International Journal of Circuit Theory and Applications, 2010, 38, 243-258.	1.3	23

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37	ONLINE SECURE CHATTING SYSTEM USING DISCRETE CHAOTIC MAP. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 285-292.	0.7	20
38	A Comparison of Optimization Algorithms for Biological Neural Network Identification. IEEE Transactions on Industrial Electronics, 2010, 57, 1127-1131.	5.2	20
39	Improved modeling by coupling imperfect models. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 2741-2751.	1.7	20
40	Hierarchical Quantum Secret Sharing Based On Special High-Dimensional Entangled State. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-6.	1.9	20
41	Efficient quantum multi-proxy signature. Quantum Information Processing, 2019, 18, 1.	1.0	19
42	An averaging model for chaotic system with periodic time-varying parameter. Applied Mathematics and Computation, 2010, 217, 355-362.	1.4	18
43	Consensus of Multiagent Systems With Delayed Node Dynamics and Time-Varying Coupling. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3320-3329.	5.9	18
44	A NEW CHAOTIC SYSTEM BASED ON MULTIPLE-ANGLE SINUSOIDAL FUNCTION: DESIGN AND IMPLEMENTATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 2073-2084.	0.7	17
45	Optimal topological design for distributed estimation over sensor networks. Information Sciences, 2014, 254, 83-97.	4.0	17
46	Tetrapterous butterfly attractors in modified Lorenz systems. Chaos, Solitons and Fractals, 2009, 41, 1740-1749.	2.5	16
47	Parrondo's paradox for chaos control and anticontrol of fractional-order systems. Chinese Physics B, 2016, 25, 010505.	0.7	16
48	CHAOTIC DYNAMICS OF LASER DIODES WITH STRONGLY MODULATED OPTICAL INJECTION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 3417-3424.	0.7	15
49	Multi-Carrier Differential Chaos Shift Keying System With Subcarriers Allocation for Noise Reduction. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1733-1737.	2.2	15
50	Identification and monitoring of biological neural network. , 2007, , .		14
51	Adaptive strategy in differential evolution via explicit exploitation and exploration controls. Applied Soft Computing Journal, 2021, 107, 107494.	4.1	14
52	A CHAOS-BASED PSEUDO-RANDOM NUMBER GENERATOR AND ITS APPLICATION IN VOICE COMMUNICATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 923-933.	0.7	13
53	A Jumping Genes Paradigm: Theory, Verification and Applications. IEEE Circuits and Systems Magazine, 2008, 8, 18-36.	2.6	13
54	Selective-candidate framework with similarity selection rule for evolutionary optimization. Swarm and Evolutionary Computation, 2020, 56, 100696.	4.5	13

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55	2 Ã— 2-SCROLL ATTRACTORS GENERATED IN A THREE-DIMENSIONAL SMOOTH AUTONOMOUS SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 4153-4157.	0.7	12
56	Establishing rational networking using the DL04 quantum secure direct communication protocol. Quantum Information Processing, 2018, 17, 1.	1.0	12
57	Quantum (t, n) threshold group signature based on Bell state. Quantum Information Processing, 2020, 19, 1.	1.0	12
58	Second-order consensus in multi-agent systems with nonlinear dynamics and intermittent control. International Journal of Systems Science, 2020, 51, 2192-2203.	3.7	12
59	Formation of High-Dimensional Chaotic Maps and Their Uses in Cryptography. Studies in Computational Intelligence, 2011, , 99-136.	0.7	10
60	Coordinating Electric Vehicle Flow Distribution and Charger Allocation by Joint Optimization. IEEE Transactions on Industrial Informatics, 2021, 17, 8112-8121.	7.2	10
61	A CHAOS-BASED RANDOM NUMBER GENERATOR FOR EIGHT-BIT MICRO-CONTROLLER SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 851-867.	0.7	8
62	Cryptanalysis of Chaotic Masking Secure Communication Systems Using an Adaptive Observer. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 1183-1187.	2.2	8
63	A DEGREE-BASED STRATEGY FOR CONSTRAINED PINNING CONTROL OF COMPLEX NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1533-1539.	0.7	8
64	Suppressing chaos in fractional-order systems by periodic perturbations on system variables. European Physical Journal B, 2013, 86, 1.	0.6	8
65	Batch quantum multi-proxy signature. Optical and Quantum Electronics, 2018, 50, 1.	1.5	8
66	Rational quantum secret sharing. Scientific Reports, 2018, 8, 11115.	1.6	8
67	Distributing Electric Vehicles to the Right Charging Queues. , 2019, , .		8
68	Event-Based Tracking Consensus for Multiagent Systems With Volatile Control Gain. IEEE Transactions on Cybernetics, 2022, 52, 6603-6614.	6.2	8
69	CHAOTIFICATION OF LINEAR CONTINUOUS-TIME SYSTEMS USING SIMPLE NONLINEAR FEEDBACK. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 3099-3106.	0.7	7
70	Emulating â€œChaos + Chaos = Orderâ€•in Chenâ€™s Circuit of Fractional Order by Parameter Switching. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650096.	0.7	7
71	Unraveling the impacts of IXP in internet ecosystem using bi-layered network. Physica A: Statistical Mechanics and Its Applications, 2016, 456, 327-339.	1.2	6
72	Multi-language naming game. Physica A: Statistical Mechanics and Its Applications, 2018, 496, 620-634.	1.2	6

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73	Restart based Collective Information Powered Differential Evolution for Solving the 100-Digit Challenge on Single Objective Numerical Optimization. , 2019, , .		6
74	An attractiveness-based model for human mobility in all spatial ranges. New Journal of Physics, 2019, 21, 123043.	1.2	6
75	Flow Distribution for Electric Vehicles Under Nodal-Centrality-Based Resource Allocation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1309-1318.	3.5	6
76	Synchronization of Dynamical Networks With Heterogeneous Delays via Time-Varying Pinning. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 3783-3793.	3.5	6
77	CHAOTIC PHASE SHIFT KEYING IN DELAYED CHAOTIC ANTICONTROL SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1017-1028.	0.7	5
78	Modified dynamic minimization algorithm for parameter estimation of chaotic system from a time series. Nonlinear Dynamics, 2011, 66, 213-229.	2.7	5
79	Three-party quantum secret sharing based on d-dimensional Bell state. Modern Physics Letters B, 2019, 33, 1950023.	1.0	5
80	CRYPTANALYSIS OF CHAOTIC COMMUNICATION SCHEMES BY DYNAMICAL MINIMIZATION ALGORITHM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 2429-2437.	0.7	4
81	An opinion disseminating model for market penetration in social networks. , 2010, , .		4
82	Multiparty to multiparty quantum secret sharing. Modern Physics Letters B, 2018, 32, 1850350.	1.0	4
83	Quantum key distribution with single-particle and Bell state. Optical and Quantum Electronics, 2020, 52, 1.	1.5	4
84	CHAOTIFICATION OF DISCRETE-TIME SYSTEMS USING NEURONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1405-1411.	0.7	3
85	Circuit Design and Implementation of a Unified Chaotic System. , 2006, , .		3
86	Enhancement of Multiobjective Search: A Jumping-Genes Approach. , 2007, , .		3
87	From n-scroll to nÃ—m-scroll attractors: A general structure based on Chua's circuit framework. , 2007, , .		3
88	Cryptanalysis of a chaotic communication scheme using adaptive observer. Chaos, 2008, 18, 043110.	1.0	3
89	Multi-wing butterfly attractors from the modified Lorenz systems. , 2008, , .		3
90	Perturbation-induced chaos in nonlinear SchrÃ¶dinger equation with single source and its characterization. Nonlinear Dynamics, 2017, 90, 1481-1490.	2.7	3

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91	Public-key quantum signature based on phase shift operation. Modern Physics Letters B, 2020, 34, 2050084.	1.0	3
92	Evolutionary Multi-objective Optimization for Multi-depot Vehicle Routing in Logistics. International Journal of Computational Intelligence Systems, 2017, 10, 1337.	1.6	3
93	Domain learning naming game for color categorization. PLoS ONE, 2017, 12, e0188164.	1.1	3
94	Formulation and analysis of high-dimensional chaotic maps. , 2008, , .		2
95	Design and Topological Analysis of Complex Networks with Optimal Controllability. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450103.	0.7	2
96	Sneaking Operation Modes in Zero-Current-Switching Converter. Open Electrical and Electronic Engineering Journal, 2015, 9, 127-134.	0.6	2
97	Consensus in Multi-Agent System under Aperiodic Denial-of-Service Attacks. , 2020, , .		1
98	A Comparative Study of IXP in Europe and US from a Complex Network Perspective. Advances in Intelligent Systems and Computing, 2018, , 242-252.	0.5	1
99	Ternary Logic Signals Transmission Based on a Unified Chaotic System. , 2006, , .		0
100	DISCRETE-TIME CONSENSUS IN A SCALE-FREE BUYER NETWORK. , 2009, , .		0
101	Hybrid-time Chaotic Encryption and Sender Authentication of Data Packets in Automation Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 179-184.	0.4	0
102	Synthesizing Chaotic Systems with Genetic Programming. , 2010, , .		0
103	Averaging method for consensus of fast switching multi-agent networks with communication delay. , 2014, , .		0
104	Routing design for transmission capacity maximization in complex networks. , 2015, , .		0
105	Multiobjective transshipment point assignment in China express delivery network. , 2017, , .		0
106	Relay-based information broadcast in complex networks. Physica A: Statistical Mechanics and Its Applications, 2018, 495, 67-80.	1.2	0