Zhengxin Wang

List of Publications by Year
in descending order

49 papers	598 citations	623734 14 h-index	642732 23 g-index
49 all docs	49 docs citations	49 times ranked	470 citing authors

#	Article	IF	Citations
1	Finite-time stochastic stabilization for BAM neural networks with uncertainties. Journal of the Franklin Institute, 2013, 350, 2109-2123.	3.4	66
2	Bifurcations in a fractional-order neural network with multiple leakage delays. Neural Networks, 2020, 131, 115-126.	5.9	64
3	Disparate delays-induced bifurcations in a fractional-order neural network. Journal of the Franklin Institute, 2019, 356, 2825-2846.	3.4	45
4	Synchronization of coupled heterogeneous complex networks. Journal of the Franklin Institute, 2017, 354, 4102-4125.	3.4	36
5	Quasi-Synchronization in Heterogeneous Harmonic Oscillators With Continuous and Sampled Coupling. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 1267-1277.	9.3	34
6	Quasi-Synchronization of Delayed Stochastic Multiplex Networks via Impulsive Pinning Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5389-5397.	9.3	32
7	Impulsive synchronization of coupled dynamical networks with nonidentical Duffing oscillators and coupling delays. Chaos, 2012, 22, 013140.	2.5	31
8	Distributed Tracking in Heterogeneous Networks With Asynchronous Sampled-Data Control. IEEE Transactions on Industrial Informatics, 2020, 16, 7381-7391.	11.3	31
9	Quasi-consensus of second-order leader-following multi-agent systems. IET Control Theory and Applications, 2012, 6, 545.	2.1	30
10	Asynchronous Quasi-Consensus of Heterogeneous Multiagent Systems With Nonuniform Input Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, , 1-13.	9.3	21
11	Consensus in nonlinear multi-agent systems with nonidentical nodes and sampled-data control. Science China Information Sciences, 2018, 61, 1.	4.3	18
12	Synchronization of multiplex networks with stochastic perturbations via pinning adaptive control. Journal of the Franklin Institute, 2021, 358, 3994-4012.	3.4	18
13	Synchronization of coupled Duffing-type oscillator dynamical networks. Neurocomputing, 2014, 136, 162-169.	5.9	16
14	Synchronization in an array of nonidentical neural networks with leakage delays and impulsive coupling. Neurocomputing, 2013, 111, 177-183.	5.9	15
15	The existence and uniqueness of periodic solutions for a kind of Duffing-type equation with two deviating arguments. Nonlinear Analysis: Theory, Methods & Applications, 2010, 73, 3034-3043.	1.1	14
16	A new information diffusion modelling technique based on vibrating string equation and its application in natural disaster risk assessment. International Journal of General Systems, 2015, 44, 601-614.	2.5	12
17	Quasi-synchronization of heterogeneous dynamical networks with sampled-data and input saturation. Neurocomputing, 2019, 339, 130-138.	5.9	12
18	Quasi-synchronization of heterogeneous complex networks with switching sequentially disconnected topology. Neurocomputing, 2017, 237, 342-349.	5.9	10

#	Article	IF	Citations
19	Existence of periodic solutions for a -Laplacian neutral functional differential equation with multiple variable parameters. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 734-747.	1.1	9
20	Modeling the dependence pattern between two precipitation variables using a coupled copula. Environmental Earth Sciences, 2020, 79, 1.	2.7	9
21	Leader-following quasi-bipartite synchronization of coupled heterogeneous harmonic oscillators via event-triggered control. Applied Mathematics and Computation, 2022, 427, 127172.	2.2	8
22	Quasiâ€synchronization of multilayer heterogeneous networks with a dynamic leader. International Journal of Robust and Nonlinear Control, 2020, 30, 2736-2751.	3.7	7
23	Quasi-synchronization of heterogeneous Lurâ€™e networks with uncertain parameters and impulsive effect. Neurocomputing, 2022, 482, 252-263.	5.9	7
24	Complex dynamic behaviors of a congestion control system under a novel <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si35.svg"><mml:mrow><mml:mi>P</mml:mi><mml:msup><mml:mi>D</mml:mi><mml:mfrac><mml:mn>1</mml:mn><mml:mi control law: Stability, bifurcation and periodic oscillations. Chaos, Solitons and Fractals, 2019, 126, 242-252.	5.1	6
25	Dynamic optimal control at Hopf bifurcation of a Newmanâ€“Watts model of small-world networks via a new <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1497" altimg="si1.svg"><mml:mi>P</mml:mi><mml:msup><mml:mrow><mml:mi>D</mml:mi></mml:mrow><mml:mrow><mml:mfrac><mml: scheme. Physica A: Statistical Mechanics and Its Applications, 2019, 532, 121769.	2.6	6
26	Stochastic Synchronization of Multiplex Networks With Continuous and Impulsive Couplings. IEEE Transactions on Network Science and Engineering, 2021, 8, 2533-2544.	6.4	6
27	Improving dynamics of integer-order small-world network models under fractional-order PD control. Science China Information Sciences, 2020, 63, 1.	4.3	5
28	An improved method for predicting water shortage risk in the case of insufficient data and its application in Tianjin, China. Journal of Earth System Science, 2020, 129, 1.	1.3	5
29	Reconstruction of a dynamicalâ€“statistical forecasting model of the ENSO index based on the improved self-memorization principle. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 101, 14-26.	1.4	4
30	On the existence of periodic solutions to a fourth-order -Laplacian differential equation with a deviating argument. Nonlinear Analysis: Real World Applications, 2010, 11, 1660-1669.	1.7	3
31	Stability switches and Hopf bifurcations of an isolated population model with delay-dependent parameters. Applied Mathematics and Computation, 2015, 264, 99-115.	2.2	3
32	Finite-Time Robust Stabilization for Stochastic Neural Networks. Abstract and Applied Analysis, 2012, 2012, 1-15.	0.7	2
33	Quasi-synchronization of the heterogeneous oscillator dynamical networks. , 2014, , .		2
34	Synchronization via pinning control on heterogeneous dynamical networks. , 2015, , .		2
35	Stability and bifurcation analysis of a gene expression model with small RNAs and mixed delays. Advances in Difference Equations, 2019, 2019, .	3.5	2
36	Impulsive quasi-containment control in heterogeneous multiplex networks. Neurocomputing, 2021, 419, 37-46.	5.9	2

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37	Pinning Group Tracking Consensus of First-Order Nonlinear Multiagent Systems. , 2020, , .		2
38	Periodic Solutions of the Second-Order Neutral Functional Differential Systems with Operator Varying in Time and Delays. Journal of Mathematical Sciences, 2015, 208, 498-519.	0.4	1
39	Non-fragile quasi-synchronization of delayed heterogeneous dynamical networks with memory sampled-data control. Transactions of the Institute of Measurement and Control, 2021, 43, 2321-2333.	1.7	1
40	A water shortage risk predicting model through estimating mutual information values between risk and risk factors. Environmental Earth Sciences, 2021, 80, 1.	2.7	1
41	Consensus Analysis for High-Order Multi-Agent Systems without or with Delays. Discrete Dynamics in Nature and Society, 2013, 2013, 1-11.	0.9	0
42	Sampled-data-based tracking for heterogeneous nonlinear second-order multiagent systems. , 2017, , .		0
43	Epidemic Spreading with Heterogeneous Awareness on Human Networks. Mathematical Problems in Engineering, 2017, 2017, 1-7.	1.1	0
44	Synchronization in Heterogeneous Networks Coupled of LC Oscillators Via Sampled-Data Control. , 2019, , .		0
45	Quasi-Synchronization in Heterogeneous Delayed Multiplex Networks Via Impulsive Control. , 2020, , .		0
46	Existence and Global Stability of Periodic Solutions of Generalized-Brain-State-in-a-Box (GBSB) Neural Models. Lecture Notes in Computer Science, 2011, , 321-328.	1.3	0
47	Pinning Synchronization in Heterogeneous Networks of Harmonic Oscillators. Lecture Notes in Computer Science, 2017, , 836-845.	1.3	0
48	Asynchronous sampling-based leader-following consensus in second-order multi-agent systems. Kybernetika, 0, , 61-78.	0.0	0
49	Synchronization of Stochastic Multiplex Networks With Impulsive Effects. , 2021, , .		0