

# Zhi-Wei Liu

## List of Publications by Citations

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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.

110  
papers

2,080  
citations

20  
h-index

43  
g-index

155  
ext. papers

2,766  
ext. citations

4.4  
avg, IF

5.55  
L-index

#	Paper	IF	Citations
110	Synchronization of Complex Dynamical Networks With Time-Varying Delays Via Impulsive Distributed Control. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2010</b> , 57, 2182-2195	3.9	296
109	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2016</b> , 12, 1775-1785	11.9	217
108	Consensus of Multi-Agent Networks With Aperiodic Sampled Communication Via Impulsive Algorithms Using Position-Only Measurements. <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 2639-2643	5.9	171
107	Impulsive consensus algorithms for second-order multi-agent networks with sampled information. <i>Automatica</i> , <b>2012</b> , 48, 1397-1404	5.7	161
106	Pulse-Modulated Intermittent Control in Consensus of Multiagent Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 783-793	7.3	139
105	Adaptive Consensus-Based Robust Strategy for Economic Dispatch of Smart Grids Subject to Communication Uncertainties. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 2484-2496	11.9	94
104	Delayed Impulsive Control for Consensus of Multiagent Systems With Switching Communication Graphs. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 3045-3055	10.2	49
103	Hierarchical Controller-Estimator for Coordination of Networked Euler-Lagrange Systems. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 2450-2461	10.2	41
102	Asynchronous impulsive containment control in switched multi-agent systems. <i>Information Sciences</i> , <b>2016</b> , 370-371, 667-679	7.7	40
101	Plug-in Free Web-Based 3-D Interactive Laboratory for Control Engineering Education. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 3808-3818	8.9	36
100	Consensus of second-order multi-agent systems via impulsive control using sampled hetero-information. <i>Automatica</i> , <b>2013</b> , 49, 2881-2886	5.7	36
99	Cooperative Tracking of Networked Agents With a High-Dimensional Leader: Qualitative Analysis and Performance Evaluation. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 2060-2073	10.2	33
98	Distributed power control for DERs based on networked multiagent systems with communication delays. <i>Neurocomputing</i> , <b>2016</b> , 179, 135-143	5.4	33
97	Leader-follower flocking based on distributed event-triggered hybrid control. <i>International Journal of Robust and Nonlinear Control</i> , <b>2016</b> , 26, 143-153	3.6	31
96	A distributed event-triggered transmission strategy for exponential consensus of general linear multi-agent systems with directed topology. <i>Journal of the Franklin Institute</i> , <b>2015</b> , 352, 5866-5881	4	31
95	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2020</b> , 67, 1402-1412	3.9	29
94	Multi-target tracking of networked heterogeneous collaborative robots in task space. <i>Nonlinear Dynamics</i> , <b>2019</b> , 97, 1159-1173	5	25

93	Consensus and performance optimisation of multi-agent systems with position-only information via impulsive control. <i>IET Control Theory and Applications</i> , <b>2013</b> , 7, 16-24	2.5	24
92	Voltage Control for Distribution Networks via Coordinated Regulation of Active and Reactive Power of DGs. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 4017-4031	10.7	23
91	Quantized Consensus of Multi-Agent Systems Via Broadcast Gossip Algorithms. <i>Asian Journal of Control</i> , <b>2012</b> , 14, 1634-1642	1.7	20
90	Branch-Wise Parallel Successive Algorithm for Online Voltage Regulation in Distribution Networks. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 6678-6689	10.7	20
89	Region growing for image segmentation using an extended PCNN model. <i>IET Image Processing</i> , <b>2018</b> , 12, 729-737	1.7	20
88	Hierarchical Distributed Scheme for Demand Estimation and Power Reallocation in a Future Power Grid. <i>IEEE Transactions on Industrial Informatics</i> , <b>2017</b> , 13, 2279-2290	11.9	19
87	Output Multiformalion Tracking of Networked Heterogeneous Robotic Systems via Finite-Time Hierarchical Control. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 2893-2904	10.2	19
86	Predefined-time formation tracking control of networked marine surface vehicles. <i>Control Engineering Practice</i> , <b>2021</b> , 107, 104682	3.9	19
85	Containment control for multi-agent systems via impulsive algorithms without velocity measurements. <i>IET Control Theory and Applications</i> , <b>2014</b> , 8, 2033-2044	2.5	18
84	Distributed optimal active power dispatch with energy storage units and power flow limits in smart grids. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2019</b> , 105, 420-428	5.1	18
83	Modular Web-Based Interactive Hybrid Laboratory Framework for Research and Education. <i>IEEE Access</i> , <b>2018</b> , 6, 20152-20163	3.5	17
82	Wide-area multiple line-outages detection in power complex networks. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2016</b> , 79, 132-141	5.1	17
81	HTML5-Based 3-D Online Control Laboratory With Virtual Interactive Wiring Practice. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 2473-2483	11.9	16
80	Formation tracking of the second-order multi-agent systems using position-only information via impulsive control with input delays. <i>Applied Mathematics and Computation</i> , <b>2014</b> , 246, 572-585	2.7	16
79	A modified strategy of fuzzy clustering algorithm for image segmentation. <i>Soft Computing</i> , <b>2015</b> , 19, 3261-3272	3.5	15
78	Quasi-Synchronization of Heterogeneous Networks With a Generalized Markovian Topology and Event-Triggered Communication. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 4200-4213	10.2	15
77	Simplified parameters model of PCNN and its application to image segmentation. <i>Pattern Analysis and Applications</i> , <b>2016</b> , 19, 939-951	2.3	14
76	Impulsive coordination of nonlinear multi-agent systems with multiple leaders and stochastic disturbance. <i>Neurocomputing</i> , <b>2016</b> , 171, 73-81	5.4	11

75	Distributed event-triggered consensus of general linear multi-agent systems with quantised measurements. <i>IET Control Theory and Applications</i> , <b>2017</b> , 11, 308-318	2.5	10
74	Sampled containment control for multi-agent systems with nonlinear dynamics. <i>Neurocomputing</i> , <b>2017</b> , 219, 242-247	5.4	10
73	Adaptive neural network control for quadrotor unmanned aerial vehicles <b>2017</b> ,		10
72	Distributed leaderless impulsive consensus of non-linear multi-agent systems with input saturation. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2020</b> , 36, 100855	4.5	9
71	Web-based 3D Interactive Virtual Control Laboratory Based on NCSLab Framework. <i>International Journal of Online and Biomedical Engineering</i> , <b>2014</b> , 10, 10	0.8	9
70	Bounded synchronization of coupled Kuramoto oscillators with phase lags via distributed impulsive control. <i>Neurocomputing</i> , <b>2016</b> , 218, 216-222	5.4	9
69	Asynchronous impulsive control for consensus of second-order multi-agent networks. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2019</b> , 79, 104892	3.7	8
68	Coordinated tracking for networked robotic systems via model-free controller-estimator algorithms. <i>Journal of the Franklin Institute</i> , <b>2017</b> , 354, 5646-5666	4	8
67	Drawing and ultimate tensile properties of nylon 6/nylon 6 clay composite fibers. <i>Polymer Engineering and Science</i> , <b>2012</b> , 52, 1348-1355	2.3	8
66	Drawing and ultimate tenacity properties of polyamide 6/attapulgitite composite fibers. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 126, 1906-1916	2.9	8
65	Coordination of networked delayed singularly perturbed systems with antagonistic interactions and switching topologies. <i>Nonlinear Dynamics</i> , <b>2017</b> , 89, 741-754	5	8
64	Transcriptome analysis and identification of genes associated with chicken sperm storage duration. <i>Poultry Science</i> , <b>2020</b> , 99, 1199-1208	3.9	8
63	Unified 3-D Interactive Human-Centered System for Online Experimentation: Current Deployment and Future Perspectives. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 1-1	11.9	8
62	Formation-containment control of multiple underactuated surface vessels with sampling communication via hierarchical sliding mode approach. <i>ISA Transactions</i> , <b>2019</b> ,	5.5	8
61	Data-driven based optimal distributed frequency control for islanded AC microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 119, 105904	5.1	7
60	Modelling and Practical Implementation of 2-Coil Wireless Power Transfer Systems. <i>Journal of Electrical and Computer Engineering</i> , <b>2014</b> , 2014, 1-8	1.9	7
59	Force-reflecting hierarchical approach for human-aided teleoperation of NRS with event-triggered local communication. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	7
58	Modeling and Synchronization Stability of Low-Voltage Active Distribution Networks With Large-Scale Distributed Generations. <i>IEEE Access</i> , <b>2018</b> , 6, 70989-71002	3.5	7

57	Drawing and ultimate tensile properties of modified polyamide 6 fibers. <i>Polymer Engineering and Science</i> , <b>2011</b> , 51, 755-763	2.3	6
56	Distributed Impulsive Control for Signed Networks of Coupled Harmonic Oscillators With Sampled Positions. <i>IEEE Transactions on Control of Network Systems</i> , <b>2020</b> , 1-1	4	6
55	Resilient Consensus of Multi-Agent Systems With Switching Topologies: A Trusted-Region-Based Sliding-Window Weighted Approach. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 68, 2448-2452	3.5	6
54	Transmission Lines Overload Alleviation: Distributed Online Optimization Approach. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 3197-3208	11.9	6
53	Lag-Bipartite Formation Tracking of Networked Robotic Systems Over Directed Matrix-Weighted Signed Graphs. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , PP,	10.2	6
52	A novel sliding surface design for predefined-time stabilization of Euler-Lagrange systems. <i>Nonlinear Dynamics</i> , <b>2021</b> , 106, 445-458	5	6
51	Distributed consensus tracking with stochastic quantization via pulse-modulated intermittent control. <i>Journal of the Franklin Institute</i> , <b>2017</b> , 354, 3485-3501	4	5
50	Stability and Hopf bifurcation of fractional genetic regulatory networks with diffusion 1 1This work was partially supported by the National Natural Science Foundation of China under Grants 61473128, 61672245, 61472374, 61503129 and 61572208.. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 10443-10448	0.7	5
49	Recent progress on the study of distributed economic dispatch in smart grid: an overview. <i>Frontiers of Information Technology and Electronic Engineering</i> , <b>2021</b> , 22, 25-39	2.2	5
48	Scale-based cluster formation for multi-agent systems with mismatched disturbances. <i>Journal of the Franklin Institute</i> , <b>2019</b> , 356, 7393-7410	4	4
47	Cluster formation for multi-agent systems under disturbances and unmodelled uncertainties. <i>IET Control Theory and Applications</i> , <b>2017</b> , 11, 2630-2635	2.5	4
46	Multitarget Tracking for Multiple Lagrangian Plants With Input-to-Output Redundancy and Sampled-Data Interactions. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-12	7.3	4
45	Distributed Observer-Based H <sub>∞</sub> Fault-Tolerant Control for DC Microgrids With Sensor Fault. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2021</b> , 68, 1659-1670	3.9	4
44	Minimisation of local within-class variance for image segmentation. <i>IET Image Processing</i> , <b>2016</b> , 10, 608-615	6.15	4
43	. <i>IEEE Transactions on Education</i> , <b>2021</b> , 64, 276-282	2.1	4
42	Consensus analysis for multi-agent systems via periodic event-triggered algorithms with quantized information. <i>Journal of the Franklin Institute</i> , <b>2017</b> , 354, 6364-6380	4	3
41	Impulsive Consensus for Leader-Following Multiagent Systems with Fixed and Switching Topology. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-10	1.1	3
40	RES Introduced Through Flame Image Processing and Visualization of 3-D Temperature Distribution in a Coal-Fired Boiler Furnace <b>2005</b> , 795		3

39	Location and capacity design of congested intermediate facilities in networks. <i>Journal of Industrial and Management Optimization</i> , <b>2015</b> , 12, 449-470	2	3
38	Finite-time multi-target tracking of networked Euler-Lagrange systems via hierarchical active disturbance rejection control. <i>International Journal of Control</i> , 1-15	1.5	3
37	Trusted-Region Subsequence Reduction for Designing Resilient Consensus Algorithms. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2021</b> , 8, 259-268	4.9	3
36	<b>2017</b> ,		2
35	Distributed Consensus-Based Optimization of Multiple Load Aggregators for Secondary Frequency Control. <i>Asian Journal of Control</i> , <b>2018</b> , 20, 943-955	1.7	2
34	Schooling for multi-agent systems via impulsive containment control algorithms with quantized information. <i>Transactions of the Institute of Measurement and Control</i> , <b>2019</b> , 41, 828-841	1.8	2
33	Robust Average Formation Tracking for Multi-Agent Systems With Multiple Leaders. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 2427-2432	0.7	2
32	Impulsive Consensus Tracking of Multiagent Systems with Quantization and Input Delays Using Position-Only Information. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-10	1.1	2
31	Distributed Impulsive Consensus of the Multiagent System without Velocity Measurement. <i>Abstract and Applied Analysis</i> , <b>2013</b> , 2013, 1-8	0.7	2
30	Congestion Service Facilities Location Problem with Promise of Response Time. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-11	1.1	2
29	Secure stabilization of singularly perturbed switched systems under deception attacks. <i>Nonlinear Dynamics</i> , <b>2022</b> , 108, 683	5	2
28	Distributed Event-Triggered Synchronization of Interconnected Linear Two-Time-Scale Systems With Switching Topology. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	2
27	Secure and Privacy-Preserving Formation Control for Networked Marine Surface Vehicles with Sampled-Data Interactions. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	2
26	Optimal tracking performance of discrete-time systems with quantization. <i>Journal of Nonlinear Science and Applications</i> , <b>2017</b> , 10, 1873-1880	1.9	2
25	Neuro-adaptive fixed-time trajectory tracking control for human-in-the-loop teleoperation with mixed communication delays. <i>IET Control Theory and Applications</i> , <b>2020</b> , 14, 3193-3203	2.5	2
24	Charging stations expansion planning under government policy driven based on Bayesian regularization backpropagation learning. <i>Neurocomputing</i> , <b>2020</b> , 416, 47-58	5.4	2
23	Resilient Delayed Impulsive Control for Consensus of Multiagent Networks Subject to Malicious Agents. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , PP,	10.2	2
22	Distributed CPS-Based Secondary Control of Microgrids with Optimal Power Allocation and Limited Communication. <i>IEEE Transactions on Smart Grid</i> , <b>2021</b> , 1-1	10.7	2

21	Predefined-time Stabilization of T-S Fuzzy Systems: A Novel Integral Sliding Mode based Approach. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2022</b> , 1-1	8.3	2
20	Distributed control of heterogeneous multi-agent systems with unknown control directions via event/self-triggered communication. <i>Journal of the Franklin Institute</i> , <b>2020</b> , 357, 12163-12179	4	1
19	Fault-tolerant control of singularly perturbed systems with actuator faults and disturbances. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 4550-4564	3.6	1
18	Multiconsensus of Second-Order Multiagent Networks via Pulse-Modulated Intermittent Control. <i>Complexity</i> , <b>2020</b> , 2020, 1-8	1.6	1
17	Distributed Optimal Day-Ahead Scheduling in a Smart Grid: A Trade-Off among Consumers, Power Suppliers, and Transmission Owners. <i>Complexity</i> , <b>2017</b> , 2017, 1-11	1.6	1
16	Event-triggered consensus of general linear multi-agent systems with directed topology <b>2015</b> ,		1
15	Impulsive Containment Control in Nonlinear Multiagent Systems with Time-Delay. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-9	1.1	1
14	Temperature Control via Affine Nonlinear Systems for Intermediate Point of Supercritical Once-Through Boiler Units. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-13	1.1	1
13	A novel photodetector with new internal gain and short response time. <i>Sensors and Actuators A: Physical</i> , <b>1995</b> , 51, 125-128	3.9	1
12	Short-Term Residential Load Forecasting Based on Smart Meter Data Using Temporal Convolutional Networks <b>2020</b> ,		1
11	Intermittent Sampled Data Control for Time-Varying Formation-Containment of the Multiagent System with/without Time Delay. <i>Complexity</i> , <b>2021</b> , 2021, 1-9	1.6	1
10	Pulse-modulated intermittent control for consensus of multi-agent systems with switching topology <b>2016</b> ,		1
9	Second-order consensus of multi-agent systems with nonlinear dynamics and time-varying delays via impulsive control <b>2016</b> ,		1
8	Reactive power compensation in microgrids via distributed control strategy <b>2016</b> ,		1
7	Distributed impulsive control for secure consensus of nonlinear dynamical networks with node delay under denial-of-service attacks. <i>Asian Journal of Control</i> ,	1.7	1
6	In situ fabrication of porous biochar reinforced W18O49 nanocomposite for methylene blue photodegradation. <i>RSC Advances</i> , <b>2022</b> , 12, 14902-14911	3.7	1
5	Sampled intermittent control for consensus of multi-agent systems with variable activated intervals. <i>Transactions of the Institute of Measurement and Control</i> , <b>2018</b> , 40, 1521-1528	1.8	0
4	Distributed Secondary Control for Voltage Regulation and Optimal Power Sharing in DC Microgrids. <i>IEEE Transactions on Control Systems Technology</i> , <b>2022</b> , 1-12	4.8	0

- 3 Fixed-Time Consensus-Based Scheme for Economic Dispatch of Smart Grid. *Lecture Notes in Electrical Engineering*, **2018**, 373-381 0.2
- 2 Model Predictive Direct Power Control of Grid-connected Converters Considering Unbalanced Filter Inductance and Grid Conditions. *Journal of Modern Power Systems and Clean Energy*, **2021**, 9, 1279-1288
- 1 Impulsive Control of Multi-agent Systems with Partial Information **2019**, 1-37