

# Jiming Xiang

## List of Publications by Year in descending order

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117  
papers

2,153  
citations

279487

23  
h-index

253896

43  
g-index

117  
all docs

117  
docs citations

117  
times ranked

1860  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the V-stability of complex dynamical networks. <i>Automatica</i> , 2007, 43, 1049-1057.	3.0	201
2	Synchronized Output Regulation of Linear Networked Systems. <i>IEEE Transactions on Automatic Control</i> , 2009, 54, 1336-1341.	3.6	185
3	Consensus problems for linear time-invariant multi-agent systems with saturation constraints. <i>IET Control Theory and Applications</i> , 2011, 5, 823-829.	1.2	173
4	A Simple Sizing Algorithm for Stand-Alone PV/Wind/Battery Hybrid Microgrids. <i>Energies</i> , 2012, 5, 5307-5323.	1.6	139
5	General-Weighted Least-Norm Control for Redundant Manipulators. <i>IEEE Transactions on Robotics</i> , 2010, 26, 660-669.	7.3	88
6	Distributed Consensus Based Supply-Demand Balance Algorithm for Economic Dispatch Problem in a Smart Grid With Switching Graph. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 1600-1610.	5.2	86
7	Optimal Sizing of a Stand-Alone Hybrid Power System Based on Battery/Hydrogen with an Improved Ant Colony Optimization. <i>Energies</i> , 2016, 9, 785.	1.6	78
8	A Graph-Based Power Flow Method for Balanced Distribution Systems. <i>Energies</i> , 2018, 11, 511.	1.6	62
9	Modelling, analysis and control design of a two-stage photovoltaic generation system. <i>IET Renewable Power Generation</i> , 2016, 10, 1195-1203.	1.7	55
10	An improved condition for master-slave synchronization of Lur'e systems with time delay. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 362, 154-158.	0.9	51
11	A hybrid non-linear time-varying double-weighted particle swarm optimization for solving non-convex combined environmental economic dispatch problem. <i>Applied Soft Computing Journal</i> , 2020, 86, 105894.	4.1	48
12	Decentralized Coordination Control of Multiple Photovoltaic Sources for DC Bus Voltage Regulating and Power Sharing. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 5601-5610.	5.2	43
13	Decentralised control for reactive power sharing using adaptive virtual impedance. <i>IET Generation, Transmission and Distribution</i> , 2018, 12, 1198-1205.	1.4	40
14	Pinning Control of Uncertain Complex Networks to a Homogeneous Orbit. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2009, 56, 235-239.	2.2	39
15	Droop Control for PV Sources in DC Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 7708-7720.	5.4	38
16	A Varied Weights Method for the Kinematic Control of Redundant Manipulators With Multiple Constraints. <i>IEEE Transactions on Robotics</i> , 2012, 28, 330-340.	7.3	33
17	Cooperative output regulation of linear multi-agent network systems with dynamic edges. <i>Automatica</i> , 2017, 77, 1-13.	3.0	32
18	Coordination Control Strategy for Power Management of Active Distribution Networks. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 5524-5535.	6.2	31

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19	Analysis of Pinning-Controlled Networks: A Renormalization Approach. IEEE Transactions on Automatic Control, 2009, 54, 1869-1875.	3.6	29
20	Multipoint interpolated DFT for sine waves in short records with DC components. Signal Processing, 2017, 131, 161-170.	2.1	27
21	An ILMI approach to robust static output feedback sliding mode control. International Journal of Control, 2006, 79, 959-967.	1.2	26
22	Stability and steady-state analysis of distributed cooperative droop controlled DC microgrids. IET Control Theory and Applications, 2016, 10, 2490-2496.	1.2	25
23	A game theory-based interactive demand response for handling dynamic prices in security-constrained electricity markets. Sustainable Cities and Society, 2021, 72, 103073.	5.1	25
24	Distributed Finite-Time Secondary Control for DC Microgrids With Virtual Impedance Arrangement. IEEE Access, 2019, 7, 57060-57068.	2.6	23
25	On the Virtual Joints for Kinematic Control of Redundant Manipulators With Multiple Constraints. IEEE Transactions on Control Systems Technology, 2018, 26, 65-76.	3.2	21
26	Three-Dimensional Coordination Control for Multiple Autonomous Underwater Vehicles. IEEE Access, 2019, 7, 63913-63920.	2.6	21
27	Cooperative Fencing Control of Multiple Vehicles for a Moving Target With an Unknown Velocity. IEEE Transactions on Automatic Control, 2022, 67, 1008-1015.	3.6	21
28	QUUV: A quadrotor-like unmanned underwater vehicle with thrusts configured as X shape. Applied Ocean Research, 2018, 78, 201-211.	1.8	20
29	Demand Management of Active Distribution Network Using Coordination of Virtual Synchronous Generators. IEEE Transactions on Sustainable Energy, 2021, 12, 250-261.	5.9	20
30	Synchronisation of linear high-order multi-agent systems: an internal model approach. IET Control Theory and Applications, 2013, 7, 2110-2116.	1.2	19
31	Islanding detection method based on system identification. IET Power Electronics, 2016, 9, 2095-2102.	1.5	19
32	Clamping weighted least-norm method for the manipulator kinematic control with constraints. International Journal of Control, 2016, 89, 2240-2249.	1.2	18
33	Cooperative fencing control of multiple second-order vehicles for a moving target with and without velocity measurements. International Journal of Robust and Nonlinear Control, 2021, 31, 4602-4615.	2.1	18
34	Controllability of Dynamic-Edge Multi-Agent Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 857-867.	2.4	17
35	SOCP Relaxations of Optimal Power Flow Problem Considering Current Margins in Radial Networks. Energies, 2018, 11, 3164.	1.6	17
36	A Dispatchable Droop Control Method for Distributed Generators in Islanded AC Microgrids. IEEE Transactions on Industrial Electronics, 2021, 68, 8356-8366.	5.2	17

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37	A Feedback Passivation Design for DC Microgrid and Its DC/DC Converters. <i>Energies</i> , 2017, 10, 14.	1.6	16
38	Clamping weighted least-norm method for the manipulator kinematic control: Avoiding joint limits. , 2014, , .		15
39	Coordinated Rotor Speed and Pitch Angle Control of Wind Turbines for Accurate and Efficient Frequency Response. <i>IEEE Transactions on Power Systems</i> , 2022, 37, 3566-3576.	4.6	15
40	Distributed Power Control for Transient Stability of Multimachine Power Systems. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2017, 7, 383-392.	2.7	13
41	Distributed power system stabiliser for multimachine power systems. <i>IET Generation, Transmission and Distribution</i> , 2019, 13, 603-612.	1.4	13
42	On the design of Walcott-Zak sliding mode observer. , 0, , .		12
43	Robust sliding mode output feedback control design using LMI approach. , 0, , .		11
44	Synchronised output regulation of leader-following heterogeneous networked systems via error feedback. <i>International Journal of Systems Science</i> , 2016, 47, 755-764.	3.7	11
45	Load Support by Droop-Controlled Distributed Generations. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 8345-8355.	5.2	11
46	A quadratic voltage model for optimal power flow of a class of meshed networks. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 131, 107047.	3.3	11
47	LMI approach to robust delay dependent/independent sliding mode control of uncertain time-delay systems. , 0, , .		10
48	On local synchronisability of nonlinear networked systems with a unit inner-coupling matrix and switching topology. <i>International Journal of Control</i> , 2011, 84, 1769-1778.	1.2	10
49	Robust Orientation-Sensitive Trajectory Tracking of Underactuated Autonomous Underwater Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 8464-8473.	5.2	10
50	String formations of multiple vehicles via pursuit strategy. <i>IET Control Theory and Applications</i> , 2010, 4, 1027-1038.	1.2	8
51	Analysis, Control and Optimal Placement of Static Synchronous Compensator with/without Battery Energy Storage. <i>Energies</i> , 2019, 12, 4715.	1.6	8
52	A coordination control strategy for power quality enhancement of an active distribution network. <i>Energy Reports</i> , 2022, 8, 5455-5471.	2.5	8
53	Synchronised output regulation of heterogeneous networks with delayed and sampled data communications. <i>IET Control Theory and Applications</i> , 2015, 9, 320-326.	1.2	7
54	A quadrotor-like unmanned underwater vehicle. , 2016, , .		7

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55	Sizing of a stand-alone photovoltaic/wind energy system with hydrogen and battery storage based on improved ant colony algorithm. , 2016, , .		7
56	Distributed virtual incremental cost consensus algorithm for economic dispatch in a microgrid. , 2016, , .		7
57	Efficient energy management of renewable resources in microgrids. , 2021, , 285-321.		7
58	Fault diagnosis and reconfigurable control for underwater vehicles. Ocean Engineering, 2021, 239, 109813.	1.9	7
59	Position Tracking Control of Fully-Actuated Underwater Vehicles With Constrained Attitude and Velocities. IEEE Transactions on Industrial Electronics, 2022, 69, 13192-13202.	5.2	7
60	A decentralized control strategy for photovoltaic sources to unify MPPT and DC-bus voltage regulation. , 2017, , .		6
61	Constrained Control Allocation of a Quadrotor-Like Autonomous Underwater Vehicle. Journal of Guidance, Control, and Dynamics, 2021, 44, 659-666.	1.6	6
62	Moving obstacle avoidance for redundant manipulator via weighted least norm method. , 2015, , .		5
63	A Unified Weighted Least Norm Method for Redundant Manipulator Control. International Journal of Advanced Robotic Systems, 2016, 13, 19.	1.3	5
64	Analysis and Control of Energy Storage Systems for Power System Stability Enhancement. , 2019, , .		5
65	Stereo Vision and Mask-RCNN Segmentation Based 3D Points Cloud Matching for Fish Dimension Measurement. , 2020, , .		5
66	Fish Keypoints Detection for Ecology Monitoring Based on Underwater Visual Intelligence. , 2020, , .		5
67	Stabilisation of a class of non-affine systems via modelling error compensation. IET Control Theory and Applications, 2008, 2, 108-116.	1.2	4
68	General-Weighted Least-Norm Control for Redundant Manipulators under Time-Dependent Constraint. International Journal of Advanced Robotic Systems, 2015, 12, 53.	1.3	4
69	Synchronised output regulation of nonlinear multi-agent systems. International Journal of Control, 2015, 88, 54-64.	1.2	4
70	Iteratively Successive Projection: A Novel Continuous Approach for the Task-Based Control of Redundant Robots. IEEE Access, 2019, 7, 25347-25358.	2.6	4
71	From Grid Feeding to Grid Supporting Converters: A Constant Power Active Distribution Network Perspective. , 2020, , .		4
72	A Low Cost Visual Positioning System for Small Scale Tracking Experiments on Underwater Vehicles. , 2020, , .		4

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73	Seamless Transfer of Single-Phase Utility Interactive Inverters with a Synchronized Output Regulation Strategy. <i>Journal of Power Electronics</i> , 2016, 16, 1821-1832.	0.9	4
74	Flexible Generator: Generation Unit Integrated by Energy Storage System and Synchronous Generator. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 4263-4271.	4.6	4
75	Comments on "A class of proportional-integral sliding mode control with application to active suspension system" <i>Systems and Control Letters</i> , 2007, 56, 253-254.	1.3	3
76	Global Synchronization of Directional Networked Systems With Eventually Dissipative Nodes. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012, 59, 1278-1289.	3.5	3
77	Sampled-data synchronized output regulation of linear system based on input delay approach. , 2015, , .		3
78	A Unified Approach for Second-Order Control of the Manipulator With Joint Physical Constraints. <i>Journal of Mechanisms and Robotics</i> , 2017, 9, .	1.5	3
79	Stability and nonlinear controllability analysis of a quadrotor-like autonomous underwater vehicle considering variety of cases. <i>International Journal of Advanced Robotic Systems</i> , 2018, 15, 172988141881940.	1.3	3
80	Controllability Analysis of a Quadrotor-like Autonomous Underwater Vehicle. , 2018, , .		3
81	Synchronized output regulation of heterogeneous networked systems via the error feedback. , 2012, , .		2
82	Synchronisation of linear continuous multi-agent systems with switching topology and communication delay. <i>IET Control Theory and Applications</i> , 2014, 8, 1415-1420.	1.2	2
83	An islanding detection method based on system identification. , 2015, , .		2
84	An islanding detection based on virtual impedance and phase-locked loop. , 2017, , .		2
85	Impedance modeling and analysis of AC-DC modular cascade system. , 2017, , .		2
86	Power Flow for Grids with Unfixed Topologies by Using Deep Neural Network. , 2018, , .		2
87	Optimal power sharing of wind farms for frequency response. <i>IET Renewable Power Generation</i> , 2021, 15, 1005-1018.	1.7	2
88	Optimal operation of regional meshed power-gas systems: A tightened conic relaxation based approach. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 140, 108047.	3.3	2
89	Sliding Mode Control of Energy Storage Systems for Reshaping the Accelerating Power of Synchronous Generators. <i>IEEE Transactions on Power Systems</i> , 2023, 38, 1242-1256.	4.6	2
90	Variable structure output feedback control for linear system with uncertain output matrix. , 0, , .		1

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91	SLIDING SURFACE MATCHED CONDITION IN SLIDING MODE CONTROL. Asian Journal of Control, 2007, 9, 345-351.	1.9	1
92	Global synchronization of networked systems with bidirectional connections. , 2009, , .		1
93	H&lt;inf&gt;&#x221E;&lt;/inf&gt; output regulation of linear systems. , 2014, , .		1
94	A synchronized output regulation strategy for seamless transfer of single-phase utility interactive inverters. , 2015, , .		1
95	Synchronized output regulation of homogeneous networked systems for tracking periodic signals. , 2016, , .		1
96	Synchronized output regulation of leader-following heterogeneous networked systems via repetitive controllers. ISA Transactions, 2017, 71, 138-147.	3.1	1
97	A nonlinear boundary controller for buck converters feeding constant-power loads. , 2017, , .		1
98	An Optimal Power Flow Formulation with SOCP Relaxation in Radial Network*. , 2018, , .		1
99	A Feedback Cone Design Synthesis and Its Corresponding Gain/Phase Margin. , 2019, , .		1
100	Load Flow optimization of Meshed Networks: A Convex Relaxation and An Illustrative Example. , 2019, , .		1
101	An Underactuated AUV Tracking Algorithm Based on Backstepping Adaptive Sliding Mode Control. , 2020, , .		1
102	A New Method for the Static Output Feedback Stabilization. Asia-Pacific Journal of Chemical Engineering, 2005, 13, 371-378.	0.0	0
103	Pinning control on complex networks via identifying communities. , 2009, , .		0
104	A lower dimensional task function method for point-to-point control of non-redundant manipulators. , 2011, , .		0
105	Kinematic control for redundant manipulators with time dependent constraints: General-Weighted Least-Norm method. , 2014, , .		0
106	Synchronized output regulation of heterogenous networks with sampled-data communications. , 2014, , .		0
107	Controllability of multi-agent systems coupled by dynamic edges. , 2015, , .		0
108	Yaw Angle Tracking Control for a Quadrotor-Like Autonomous Underwater Vehicle Using Global Fast Terminal Sliding Mode Control. , 2018, , .		0

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109	Interface Passivation for Dc Converters Under Voltage Droop Control. , 2018, , .		0
110	Droop Based Power Programmable Algorithm in DC Microgrids. , 2019, , .		0
111	Flexible Generator: Synchronous Generator Enhanced by Energy Storage System. , 2019, , .		0
112	An improved multipoint interpolation DFT algorithm for high-frequency underwater acoustic communication. , 2019, , .		0
113	Bidirectional Homotopy-Guided RRT for Path Planning. , 2020, , .		0
114	Distributed Optimal Power Flow Algorithm for Mesh Networks. , 2021, , .		0
115	A Direct Method Based on Incidence Matrix for Unbalanced Three-phase Distributed Network. , 2020, , .		0
116	A Hierarchical Control Strategy for the Consensus of Networked Systems. , 2020, , .		0
117	Distributed Real-Time Energy Management of Multi-microgrid for Incomplete Information Scenarios. , 2021, , .		0