

# Jiming Xiang

## List of Publications by Year in descending order

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117  
papers

2,153  
citations

279487

23  
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253896

43  
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117  
all docs

117  
docs citations

117  
times ranked

1860  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sliding Mode Control of Energy Storage Systems for Reshaping the Accelerating Power of Synchronous Generators. IEEE Transactions on Power Systems, 2023, 38, 1242-1256.	4.6	2
2	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
3	Coordinated Rotor Speed and Pitch Angle Control of Wind Turbines for Accurate and Efficient Frequency Response. IEEE Transactions on Power Systems, 2022, 37, 3566-3576.	4.6	15
4	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
5	Optimal operation of regional meshed power-gas systems: A tightened conic relaxation based approach. International Journal of Electrical Power and Energy Systems, 2022, 140, 108047.	3.3	2
6	A coordination control strategy for power quality enhancement of an active distribution network. Energy Reports, 2022, 8, 5455-5471.	2.5	8
7	Demand Management of Active Distribution Network Using Coordination of Virtual Synchronous Generators. IEEE Transactions on Sustainable Energy, 2021, 12, 250-261.	5.9	20
8	A Dispatchable Droop Control Method for Distributed Generators in Islanded AC Microgrids. IEEE Transactions on Industrial Electronics, 2021, 68, 8356-8366.	5.2	17
9	Load Support by Droop-Controlled Distributed Generations. IEEE Transactions on Industrial Electronics, 2021, 68, 8345-8355.	5.2	11
10	Efficient energy management of renewable resources in microgrids. , 2021, , 285-321.		7
11	Optimal power sharing of wind farms for frequency response. IET Renewable Power Generation, 2021, 15, 1005-1018.	1.7	2
12	Constrained Control Allocation of a Quadrotor-Like Autonomous Underwater Vehicle. Journal of Guidance, Control, and Dynamics, 2021, 44, 659-666.	1.6	6
13	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
14	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
15	Robust Orientation-Sensitive Trajectory Tracking of Underactuated Autonomous Underwater Vehicles. IEEE Transactions on Industrial Electronics, 2021, 68, 8464-8473.	5.2	10
16	A quadratic voltage model for optimal power flow of a class of meshed networks. International Journal of Electrical Power and Energy Systems, 2021, 131, 107047.	3.3	11
17	Fault diagnosis and reconfigurable control for underwater vehicles. Ocean Engineering, 2021, 239, 109813.	1.9	7
18	Distributed Optimal Power Flow Algorithm for Mesh Networks. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
19	Distributed Real-Time Energy Management of Multi-microgrid for Incomplete Information Scenarios. , 2021, , .		0
20	A hybrid non-linear time-varying double-weighted particle swarm optimization for solving non-convex combined environmental economic dispatch problem. Applied Soft Computing Journal, 2020, 86, 105894.	4.1	48
21	From Grid Feeding to Grid Supporting Converters: A Constant Power Active Distribution Network Perspective. , 2020, , .		4
22	A Low Cost Visual Positioning System for Small Scale Tracking Experiments on Underwater Vehicles. , 2020, , .		4
23	Stereo Vison and Mask-RCNN Segmentation Based 3D Points Cloud Matching for Fish Dimension Measurement. , 2020, , .		5
24	Bidirectional Homotopy-Guided RRT for Path Planning. , 2020, , .		0
25	Fish Keypoints Detection for Ecology Monitoring Based on Underwater Visual Intelligence. , 2020, , .		5
26	A Direct Method Based on Incidence Matrix for Unbalanced Three-phase Distributed Network. , 2020, , .		0
27	An Underactuated AUV Tracking Algorithm Based on Backstepping Adaptive Sliding Mode Control. , 2020, , .		1
28	Flexible Generator: Generation Unit Integrated by Energy Storage System and Synchronous Generator. IEEE Transactions on Power Systems, 2020, 35, 4263-4271.	4.6	4
29	A Hierarchical Control Strategy for the Consensus of Networked Systems. , 2020, , .		0
30	Three-Dimensional Coordination Control for Multiple Autonomous Underwater Vehicles. IEEE Access, 2019, 7, 63913-63920.	2.6	21
31	Distributed Finite-Time Secondary Control for DC Microgrids With Virtual Impedance Arrangement. IEEE Access, 2019, 7, 57060-57068.	2.6	23
32	Iteratively Successive Projection: A Novel Continuous Approach for the Task-Based Control of Redundant Robots. IEEE Access, 2019, 7, 25347-25358.	2.6	4
33	Distributed power system stabiliser for multimachine power systems. IET Generation, Transmission and Distribution, 2019, 13, 603-612.	1.4	13
34	Droop Based Power Programmable Algorithm in DC Microgrids. , 2019, , .		0
35	Flexible Generator: Synchronous Generator Enhanced by Energy Storage System. , 2019, , .		0
36	A Feedback Cone Design Synthesis and Its Corresponding Gain/Phase Margin. , 2019, , .		1

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37	An improved multipoint interpolation DFT algorithm for high-frequency underwater acoustic communication. , 2019, , .		0
38	Analysis, Control and Optimal Placement of Static Synchronous Compensator with/without Battery Energy Storage. Energies, 2019, 12, 4715.	1.6	8
39	Analysis and Control of Energy Storage Systems for Power System Stability Enhancement. , 2019, , .		5
40	Coordination Control Strategy for Power Management of Active Distribution Networks. IEEE Transactions on Smart Grid, 2019, 10, 5524-5535.	6.2	31
41	Load Flow optimization of Meshed Networks: A Convex Relaxation and An Illustrative Example. , 2019, , .		1
42	Decentralized Coordination Control of Multiple Photovoltaic Sources for DC Bus Voltage Regulating and Power Sharing. IEEE Transactions on Industrial Electronics, 2018, 65, 5601-5610.	5.2	43
43	Decentralised control for reactive power sharing using adaptive virtual impedance. IET Generation, Transmission and Distribution, 2018, 12, 1198-1205.	1.4	40
44	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
45	Controllability of Dynamic-Edge Multi-Agent Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 857-867.	2.4	17
46	Droop Control for PV Sources in DC Microgrids. IEEE Transactions on Power Electronics, 2018, 33, 7708-7720.	5.4	38
47	Yaw Angle Tracking Control for a Quadrotor-Like Autonomous Underwater Vehicle Using Global Fast Terminal Sliding Mode Control. , 2018, , .		0
48	Power Flow for Grids with Unfixed Topologies by Using Deep Neural Network. , 2018, , .		2
49	An Optimal Power Flow Formulation with SOCP Relaxation in Radial Network*. , 2018, , .		1
50	SOCP Relaxations of Optimal Power Flow Problem Considering Current Margins in Radial Networks. Energies, 2018, 11, 3164.	1.6	17
51	Stability and nonlinear controllability analysis of a quadrotor-like autonomous underwater vehicle considering variety of cases. International Journal of Advanced Robotic Systems, 2018, 15, 172988141881940.	1.3	3
52	Interface Passivation for Dc Converters Under Voltage Droop Control. , 2018, , .		0
53	QUUV: A quadrotor-like unmanned underwater vehicle with thrusts configured as X shape. Applied Ocean Research, 2018, 78, 201-211.	1.8	20
54	A Graph-Based Power Flow Method for Balanced Distribution Systems. Energies, 2018, 11, 511.	1.6	62

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55	Controllability Analysis of a Quadrotor-like Autonomous Underwater Vehicle. , 2018, , .		3
56	Cooperative output regulation of linear multi-agent network systems with dynamic edges. Automatica, 2017, 77, 1-13.	3.0	32
57	Synchronized output regulation of leader-following heterogeneous networked systems via repetitive controllers. ISA Transactions, 2017, 71, 138-147.	3.1	1
58	Distributed Power Control for Transient Stability of Multimachine Power Systems. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2017, 7, 383-392.	2.7	13
59	A Unified Approach for Second-Order Control of the Manipulator With Joint Physical Constraints. Journal of Mechanisms and Robotics, 2017, 9, .	1.5	3
60	An islanding detection based on virtual impedance and phase-locked loop. , 2017, , .		2
61	A nonlinear boundary controller for buck converters feeding constant-power loads. , 2017, , .		1
62	A decentralized control strategy for photovoltaic sources to unify MPPT and DC-bus voltage regulation. , 2017, , .		6
63	Multipoint interpolated DFT for sine waves in short records with DC components. Signal Processing, 2017, 131, 161-170.	2.1	27
64	Distributed Consensus Based Supply-Demand Balance Algorithm for Economic Dispatch Problem in a Smart Grid With Switching Graph. IEEE Transactions on Industrial Electronics, 2017, 64, 1600-1610.	5.2	86
65	Impedance modeling and analysis of AC-DC modular cascade system. , 2017, , .		2
66	A Feedback Passivation Design for DC Microgrid and Its DC/DC Converters. Energies, 2017, 10, 14.	1.6	16
67	Synchronised output regulation of leader-following heterogeneous networked systems via error feedback. International Journal of Systems Science, 2016, 47, 755-764.	3.7	11
68	Optimal Sizing of a Stand-Alone Hybrid Power System Based on Battery/Hydrogen with an Improved Ant Colony Optimization. Energies, 2016, 9, 785.	1.6	78
69	A quadrotor-like unmanned underwater vehicle. , 2016, , .		7
70	Synchronized output regulation of homogeneous networked systems for tracking periodic signals. , 2016, , .		1
71	Sizing of a stand-alone photovoltaic/wind energy system with hydrogen and battery storage based on improved ant colony algorithm. , 2016, , .		7
72	Stability and steady-state analysis of distributed cooperative droop controlled DC microgrids. IET Control Theory and Applications, 2016, 10, 2490-2496.	1.2	25

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73	Modelling, analysis and control design of a two-stage photovoltaic generation system. IET Renewable Power Generation, 2016, 10, 1195-1203.	1.7	55
74	Islanding detection method based on system identification. IET Power Electronics, 2016, 9, 2095-2102.	1.5	19
75	Distributed virtual incremental cost consensus algorithm for economic dispatch in a microgrid. , 2016, , .		7
76	A Unified Weighted Least Norm Method for Redundant Manipulator Control. International Journal of Advanced Robotic Systems, 2016, 13, 19.	1.3	5
77	Clamping weighted least-norm method for the manipulator kinematic control with constraints. International Journal of Control, 2016, 89, 2240-2249.	1.2	18
78	Seamless Transfer of Single-Phase Utility Interactive Inverters with a Synchronized Output Regulation Strategy. Journal of Power Electronics, 2016, 16, 1821-1832.	0.9	4
79	Moving obstacle avoidance for redundant manipulator via weighted least norm method. , 2015, , .		5
80	General-Weighted Least-Norm Control for Redundant Manipulators under Time-Dependent Constraint. International Journal of Advanced Robotic Systems, 2015, 12, 53.	1.3	4
81	A synchronized output regulation strategy for seamless transfer of single-phase utility interactive inverters. , 2015, , .		1
82	Synchronised output regulation of heterogeneous networks with delayed and sampled-data communications. IET Control Theory and Applications, 2015, 9, 320-326.	1.2	7
83	Synchronised output regulation of nonlinear multi-agent systems. International Journal of Control, 2015, 88, 54-64.	1.2	4
84	An islanding detection method based on system identification. , 2015, , .		2
85	Sampled-data synchronized output regulation of linear system based on input delay approach. , 2015, , .		3
86	Controllability of multi-agent systems coupled by dynamic edges. , 2015, , .		0
87	Synchronisation of linear continuous multi-agent systems with switching topology and communication delay. IET Control Theory and Applications, 2014, 8, 1415-1420.	1.2	2
88	Clamping weighted least-norm method for the manipulator kinematic control: Avoiding joint limits. , 2014, , .		15
89	Kinematic control for redundant manipulators with time dependent constraints: General-Weighted Least-Norm method. , 2014, , .		0
90	H&lt;inf&gt;&amp;#x221E;&lt;/inf&gt; output regulation of linear systems. , 2014, , .		1

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91	Synchronized output regulation of heterogenous networks with sampled-data communications. , 2014, , .		0
92	Synchronisation of linear high-order multi-agent systems: an internal model approach. IET Control Theory and Applications, 2013, 7, 2110-2116.	1.2	19
93	A Simple Sizing Algorithm for Stand-Alone PV/Wind/Battery Hybrid Microgrids. Energies, 2012, 5, 5307-5323.	1.6	139
94	Synchronized output regulation of heterogeneous networked systems via the error feedback. , 2012, , .		2
95	A Varied Weights Method for the Kinematic Control of Redundant Manipulators With Multiple Constraints. IEEE Transactions on Robotics, 2012, 28, 330-340.	7.3	33
96	Global Synchronization of Directional Networked Systems With Eventually Dissipative Nodes. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 1278-1289.	3.5	3
97	A lower dimensional task function method for point-to-point control of non-redundant manipulators. , 2011, , .		0
98	Consensus problems for linear time-invariant multi-agent systems with saturation constraints. IET Control Theory and Applications, 2011, 5, 823-829.	1.2	173
99	On local synchronisability of nonlinear networked systems with a unit inner-coupling matrix and switching topology. International Journal of Control, 2011, 84, 1769-1778.	1.2	10
100	String formations of multiple vehicles via pursuit strategy. IET Control Theory and Applications, 2010, 4, 1027-1038.	1.2	8
101	General-Weighted Least-Norm Control for Redundant Manipulators. IEEE Transactions on Robotics, 2010, 26, 660-669.	7.3	88
102	Global synchronization of networked systems with bidirectional connections. , 2009, , .		1
103	Pinning control on complex networks via identifying communities. , 2009, , .		0
104	Pinning Control of Uncertain Complex Networks to a Homogeneous Orbit. IEEE Transactions on Circuits and Systems II: Express Briefs, 2009, 56, 235-239.	2.2	39
105	Analysis of Pinning-Controlled Networks: A Renormalization Approach. IEEE Transactions on Automatic Control, 2009, 54, 1869-1875.	3.6	29
106	Synchronized Output Regulation of Linear Networked Systems. IEEE Transactions on Automatic Control, 2009, 54, 1336-1341.	3.6	185
107	Stabilisation of a class of non-affine systems via modelling error compensation. IET Control Theory and Applications, 2008, 2, 108-116.	1.2	4
108	Comments on "A class of proportional-integral sliding mode control with application to active suspension system". Systems and Control Letters, 2007, 56, 253-254.	1.3	3

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109	On the V-stability of complex dynamical networks. Automatica, 2007, 43, 1049-1057.	3.0	201
110	An improved condition for master-slave synchronization of Lur'e systems with time delay. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 362, 154-158.	0.9	51
111	SLIDING SURFACE MATCHED CONDITION IN SLIDING MODE CONTROL. Asian Journal of Control, 2007, 9, 345-351.	1.9	1
112	An ILMI approach to robust static output feedback sliding mode control. International Journal of Control, 2006, 79, 959-967.	1.2	26
113	A New Method for the Static Output Feedback Stabilization. Asia-Pacific Journal of Chemical Engineering, 2005, 13, 371-378.	0.0	0
114	LMI approach to robust delay dependent/independent sliding mode control of uncertain time-delay systems. , 0, , .		10
115	Variable structure output feedback control for linear system with uncertain output matrix. , 0, , .		1
116	Robust sliding mode output feedback control design using ILMI approach. , 0, , .		11
117	On the design of Walcott-Zak sliding mode observer. , 0, , .		12