

Xiangyu Meng

List of Publications by Year in descending order

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73
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172207

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all docs

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docs citations

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times ranked

2524
citing authors

#	ARTICLE	IF	CITATIONS
1	Event based agreement protocols for multi-agent networks. <i>Automatica</i> , 2013, 49, 2125-2132.	3.0	483
2	Stabilization of Networked Control Systems With a New Delay Characterization. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 2142-2148.	3.6	323
3	Wide-Area Control of Power Systems Through Delayed Network Communication. <i>IEEE Transactions on Control Systems Technology</i> , 2012, 20, 495-503.	3.2	219
4	A delay-partitioning approach to the stability analysis of discrete-time systems. <i>Automatica</i> , 2010, 46, 610-614.	3.0	203
5	An input-based triggering approach to leader-following problems. <i>Automatica</i> , 2017, 75, 221-228.	3.0	142
6	Optimal Sampling and Performance Comparison of Periodic and Event Based Impulse Control. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 3252-3259.	3.6	130
7	Event triggered robust filter design for discrete-time systems. <i>IET Control Theory and Applications</i> , 2014, 8, 104-113.	1.2	99
8	A Parameter-Dependent Approach to Robust H_{∞} Filtering for Time-Delay Systems. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 2420-2425.	3.6	98
9	A new design of robust H_{∞} filters for uncertain systems. <i>Systems and Control Letters</i> , 2008, 57, 585-593.	1.3	94
10	Asynchronous periodic event-triggered consensus for multi-agent systems. <i>Automatica</i> , 2017, 84, 214-220.	3.0	88
11	A survey on recent progress in control of swarm systems. <i>Science China Information Sciences</i> , 2017, 60, 1.	2.7	88
12	Coupling of Hierarchical Al ₂ O ₃ /TiO ₂ Nanofibers into 3D Photothermal Aerogels Toward Simultaneous Water Evaporation and Purification. <i>Advanced Fiber Materials</i> , 2020, 2, 93-104.	7.9	81
13	Stabilization of Networked Control Systems via Dynamic Output-Feedback Controllers. <i>SIAM Journal on Control and Optimization</i> , 2010, 48, 3643-3658.	1.1	76
14	Sampled-data consensus in switching networks of integrators based on edge events. <i>International Journal of Control</i> , 2015, 88, 391-402.	1.2	76
15	Event-Triggered Output Regulation of Heterogeneous Multiagent Networks. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 4429-4434.	3.6	62
16	Event detection and control co-design of sampled-data systems. <i>International Journal of Control</i> , 2014, 87, 777-786.	1.2	56
17	A metal-phenolic network-based multifunctional nanocomposite with pH-responsive ROS generation and drug release for synergistic chemodynamic/photothermal/chemo-therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 2177-2188.	2.9	54
18	Network-based H_{∞} control for stochastic systems. <i>International Journal of Robust and Nonlinear Control</i> , 2009, 19, 295-312.	2.1	43

#	ARTICLE	IF	CITATIONS
19	Reinforcing the Induction of Immunogenic Cell Death Via Artificial Engineered Cascade Bioreactorâ€Enhanced Chemoâ€Immuno-therapy for Optimizing Cancer Immunotherapy. <i>Small</i> , 2021, 17, e2101897.	5.2	42
20	Event Based Pulse-Modulated Control of Linear Stochastic Systems. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 2144-2150.	3.6	40
21	New Design of Robust H_{∞} Filters for 2-D Systems. <i>IEEE Signal Processing Letters</i> , 2008, 15, 217-220.	2.1	37
22	H_{∞} filter design for discrete delay systems: a new parameter-dependent approach. <i>International Journal of Control</i> , 2009, 82, 993-1005.	1.2	37
23	Non-contact, fibrous cellulose acetate/aluminum flexible electronic-sensor for humidity detecting. <i>Composites Communications</i> , 2020, 20, 100347.	3.3	37
24	Gradient Vertical Channels within Aerogels Based on N-Doped Graphene Meshes toward Efficient and Salt-Resistant Solar Evaporation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4955-4965.	3.2	36
25	Gradient-aligned Au/graphene meshes with confined heat at multiple levels for solar evaporation and anti-gravity catalytic conversion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16570-16581.	5.2	32
26	Flexible, graphene-based films with three-dimensional conductive network via simple drop-casting toward electromagnetic interference shielding. <i>Composites Communications</i> , 2021, 24, 100632.	3.3	32
27	Distributed edge-based event-triggered coordination control for multi-agent systems. <i>Automatica</i> , 2021, 132, 109797.	3.0	32
28	A biomass-derived, all-day-round solar evaporation platform for harvesting clean water from microplastic pollution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11013-11024.	5.2	31
29	A New Parameter-Dependent Approach to Robust Energy-to-Peak Filter Design. <i>Circuits, Systems, and Signal Processing</i> , 2007, 26, 451-471.	1.2	30
30	Tumor metabolism destruction via metformin-based glycolysis inhibition and glucose oxidase-mediated glucose deprivation for enhanced cancer therapy. <i>Acta Biomaterialia</i> , 2022, 145, 222-234.	4.1	30
31	Exploiting submodularity to quantify near-optimality in multi-agent coverage problems. <i>Automatica</i> , 2019, 100, 349-359.	3.0	29
32	Reset control for synchronization of multi-agent systems. <i>Automatica</i> , 2019, 104, 189-195.	3.0	29
33	Electronic textiles based on aligned electrospun belt-like cellulose acetate nanofibers and graphene sheets: portable, scalable and eco-friendly strain sensor. <i>Nanotechnology</i> , 2019, 30, 045602.	1.3	29
34	Optimality and stability of event triggered consensus state estimation for wireless sensor networks. , 2014, , .		28
35	Pulse width modulation for multi-agent systems. <i>Automatica</i> , 2016, 70, 173-178.	3.0	28
36	Periodic event-triggered average consensus over directed graphs. , 2015, , .		23

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37	Graphene-Based Modulation on the Growth of Urchin-like Na ₂ Ti ₃ O ₇ Microspheres for Photothermally Enhanced H ₂ Generation from Ammonia Borane. ACS Applied Nano Materials, 2020, 3, 2713-2722.	2.4	22
38	Eco-Driving of Autonomous Vehicles for Nonstop Crossing of Signalized Intersections. IEEE Transactions on Automation Science and Engineering, 2022, 19, 320-331.	3.4	22
39	Biodegradable copper metformin nanoscale coordination polymers for enhanced chemo/chemodynamic synergistic therapy by reducing oxygen consumption to promote H ₂ O ₂ accumulation. Journal of Materials Chemistry B, 2021, 9, 1988-2000.	2.9	19
40	Adaptive Consensus and Parameter Estimation of Multiagent Systems With an Uncertain Leader. IEEE Transactions on Automatic Control, 2021, 66, 4393-4400.	3.6	17
41	Optimal Control of Autonomous Vehicles for Non-Stop Signalized Intersection Crossing. , 2018, , .		16
42	Event-Based Stabilization over Networks with Transmission Delays. Journal of Control Science and Engineering, 2012, 2012, 1-8.	0.8	15
43	Folic acid-functionalized magnetic nanoprobe via a PAMAM dendrimer/SA-biotin mediated cascade-amplifying system for the efficient enrichment of circulating tumor cells. Biomaterials Science, 2020, 8, 6395-6403.	2.6	15
44	Biodegradable Mesoporous Organosilica Nanosheets for Chemotherapy/Mild Thermotherapy of Cancer: Fast Internalization, High Cellular Uptake, and High Drug Loading. ACS Applied Materials & Interfaces, 2020, 12, 30234-30246.	4.0	15
45	A metformin-based nanoreactor alleviates hypoxia and reduces ATP for cancer synergistic therapy. Biomaterials Science, 2021, 9, 7456-7470.	2.6	13
46	Selective Etching of N-Doped Graphene Meshes as Metal-Free Catalyst with Tunable Kinetics, High Activity and the Origin of New Catalytic Behaviors. Particle and Particle Systems Characterization, 2018, 35, 1700395.	1.2	12
47	Smart-simulation derived elastic 3D fibrous aerogels with rigid oxide elements and all-in-one multifunctions. Chemical Engineering Journal, 2022, 437, 135444.	6.6	12
48	A submodularity-based approach for multi-agent optimal coverage problems. , 2017, , .		11
49	Trajectory Optimization of Autonomous Agents With Spatio-Temporal Constraints. IEEE Transactions on Control of Network Systems, 2020, 7, 1571-1581.	2.4	11
50	A Generalized Parameter-Dependent Approach to Robust H _∞ Filtering of Stochastic Systems. Circuits, Systems, and Signal Processing, 2009, 28, 191-204.	1.2	9
51	One stone two birds: a sinter-resistant TiO ₂ nanofiber-based unbroken mat enables PM capture and in situ elimination. Nanoscale, 2021, 13, 20564-20575.	2.8	9
52	Reset control for multi-agent systems. , 2016, , .		6
53	Graphene-based modulation on the hierarchical growth of Al ₂ O ₃ heterojunctions outside TiO ₂ nanofibers via a surfactant-free approach. Composites Communications, 2020, 21, 100394.	3.3	6
54	TiO ₂ /CeO ₂ -CePO ₄ -decorated enzymatic glucose biosensors operating in oxygen-restrictive environments. Journal of Solid State Electrochemistry, 2021, 25, 1937-1947.	1.2	6

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55	Constructing fibril-in-tube structures in ultrathin CeO ₂ -based nanofibers as the ideal support for stabilizing Pt nanoparticles. <i>Materials Today Chemistry</i> , 2020, 17, 100333.	1.7	6
56	Sensing and actuation strategies for event triggered stochastic optimal control. , 2013, , .		5
57	Stimulus-Responsive Graphene with Periodical Wrinkles on Grooved Microfiber Arrays: Simulation, Programmable Shape-Shifting, and Catalytic Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26561-26572.	4.0	5
58	A Real-Time Optimal Eco-driving Approach for Autonomous Vehicles Crossing Multiple Signalized Intersections. , 2019, , .		4
59	Nano iron-copper alloys for tumor ablation: efficiently amplified oxidative stress through acid response. <i>New Journal of Chemistry</i> , 2020, 44, 14438-14446.	1.4	4
60	A Robust Control Approach to Event-Triggered Networked Control Systems With Time-Varying Delays. <i>IEEE Access</i> , 2021, 9, 64653-64664.	2.6	4
61	Mechanical Failure Mechanism of Silicon-Based Composite Anodes under Overdischarging Conditions Based on Finite Element Analysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34157-34167.	4.0	4
62	Multi-Agent Coverage Control with Energy Depletion and Repletion. , 2018, , .		3
63	Hybrid System Modeling of Multi-Agent Coverage Problems with Energy Depletion and Repletion. <i>IFAC-PapersOnLine</i> , 2018, 51, 223-228.	0.5	3
64	Distributed event driven optimization for network utility maximization. , 2016, , .		2
65	Comparison of Centralized and Decentralized Approaches in Cooperative Coverage Problems with Energy-Constrained Agents. , 2020, , .		2
66	The Price of Decentralization in Cooperative Coverage Problems With Energy-Constrained Agents. <i>IEEE Transactions on Control of Network Systems</i> , 2022, 9, 956-965.	2.4	2
67	A new design of robust H _∞ filters for uncertain discrete-time state-delayed systems. , 2007, , .		1
68	New Design of Robust Energy-to-Peak Filtering for Uncertain Continuous-time Systems. , 2007, , .		1
69	Communication protocol design in event-triggered control of multi-agent systems. , 2016, , .		1
70	Reset control of multi-agent systems with double integrator dynamics. , 2016, , .		1
71	Surfactant-free and Microporous Al ₂ O ₃ Nanosheets on TiO ₂ -Based Nanofibers: A Sustained-release Dominated Topotactic Transformation. <i>ChemNanoMat</i> , 2022, 8, .	1.5	1
72	Send-on-delta data fusion for state estimation in wireless sensor networks. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
73	On the Role of Matrix-Weights Elements in Consensus Algorithms for Multi-Agent Systems. Network, 2021, 1, 233-246.	1.5	0