

# Xiangyu Meng

## List of Publications by Year in descending order

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73  
papers

3,282  
citations

172457

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h-index

149698

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all docs

73  
docs citations

73  
times ranked

2524  
citing authors

#	ARTICLE	IF	CITATIONS
1	Eco-Driving of Autonomous Vehicles for Nonstop Crossing of Signalized Intersections. IEEE Transactions on Automation Science and Engineering, 2022, 19, 320-331.	5.2	22
2	The Price of Decentralization in Cooperative Coverage Problems With Energy-Constrained Agents. IEEE Transactions on Control of Network Systems, 2022, 9, 956-965.	3.7	2
3	Surfactant-free and Microporous AlOOH/Al <sub>2</sub> O <sub>3</sub> Nanosheets on TiO <sub>2</sub> -Based Nanofibers: A Sustained-release Dominated Topotactic Transformation. ChemNanoMat, 2022, 8, .	2.8	1
4	Smart-simulation derived elastic 3D fibrous aerogels with rigid oxide elements and all-in-one multifunctions. Chemical Engineering Journal, 2022, 437, 135444.	12.7	12
5	Tumor metabolism destruction via metformin-based glycolysis inhibition and glucose oxidase-mediated glucose deprivation for enhanced cancer therapy. Acta Biomaterialia, 2022, 145, 222-234.	8.3	30
6	A biomass-derived, all-day-round solar evaporation platform for harvesting clean water from microplastic pollution. Journal of Materials Chemistry A, 2021, 9, 11013-11024.	10.3	31
7	A Robust Control Approach to Event-Triggered Networked Control Systems With Time-Varying Delays. IEEE Access, 2021, 9, 64653-64664.	4.2	4
8	Biodegradable copper-metformin nanoscale coordination polymers for enhanced chemo/chemodynamic synergistic therapy by reducing oxygen consumption to promote H <sub>2</sub> O <sub>2</sub> accumulation. Journal of Materials Chemistry B, 2021, 9, 1988-2000.	5.8	19
9	Flexible, graphene-based films with three-dimensional conductive network via simple drop-casting toward electromagnetic interference shielding. Composites Communications, 2021, 24, 100632.	6.3	32
10	Stimulus-Responsive Graphene with Periodical Wrinkles on Grooved Microfiber Arrays: Simulation, Programmable Shape-Shifting, and Catalytic Applications. ACS Applied Materials & Interfaces, 2021, 13, 26561-26572.	8.0	5
11	TiO <sub>2</sub> /CeO <sub>2</sub> -CePO <sub>4</sub> -decorated enzymatic glucose biosensors operating in oxygen-restrictive environments. Journal of Solid State Electrochemistry, 2021, 25, 1937-1947.	2.5	6
12	Mechanical Failure Mechanism of Silicon-Based Composite Anodes under Overdischarging Conditions Based on Finite Element Analysis. ACS Applied Materials & Interfaces, 2021, 13, 34157-34167.	8.0	4
13	Reinforcing the Induction of Immunogenic Cell Death Via Artificial Engineered Cascade Bioreactor-enhanced Chemo-immunotherapy for Optimizing Cancer Immunotherapy. Small, 2021, 17, e2101897.	10.0	42
14	Adaptive Consensus and Parameter Estimation of Multiagent Systems With an Uncertain Leader. IEEE Transactions on Automatic Control, 2021, 66, 4393-4400.	5.7	17
15	Distributed edge-based event-triggered coordination control for multi-agent systems. Automatica, 2021, 132, 109797.	5.0	32
16	A metformin-based nanoreactor alleviates hypoxia and reduces ATP for cancer synergistic therapy. Biomaterials Science, 2021, 9, 7456-7470.	5.4	13
17	On the Role of Matrix-Weights Elements in Consensus Algorithms for Multi-Agent Systems. Network, 2021, 1, 233-246.	2.4	0
18	One stone two birds: a sinter-resistant TiO <sub>2</sub> nanofiber-based unbroken mat enables PM capture and <i>in situ</i> elimination. Nanoscale, 2021, 13, 20564-20575.	5.6	9

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19	Folic acid-functionalized magnetic nanoprobe <i>via</i> a PAMAM dendrimer/SA-biotin mediated cascade-amplifying system for the efficient enrichment of circulating tumor cells. <i>Biomaterials Science</i> , 2020, 8, 6395-6403.	5.4	15
20	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.	10.3	32
21	Graphene-based modulation on the hierarchical growth of Al <sub>2</sub> O <sub>3</sub> heterojunctions outside TiO <sub>2</sub> nanofibers via a surfactant-free approach. <i>Composites Communications</i> , 2020, 21, 100394.	6.3	6
22	Nano iron-copper alloys for tumor ablation: efficiently amplified oxidative stress through acid response. <i>New Journal of Chemistry</i> , 2020, 44, 14438-14446.	2.8	4
23	Biodegradable Mesoporous Organosilica Nanosheets for Chemotherapy/Mild Thermotherapy of Cancer: Fast Internalization, High Cellular Uptake, and High Drug Loading. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 30234-30246.	8.0	15
24	Trajectory Optimization of Autonomous Agents With Spatio-Temporal Constraints. <i>IEEE Transactions on Control of Network Systems</i> , 2020, 7, 1571-1581.	3.7	11
25	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.	6.7	36
26	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.	5.8	54
27	Graphene-Based Modulation on the Growth of Urchin-like Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> Microspheres for Photothermally Enhanced H <sub>2</sub> Generation from Ammonia Borane. <i>ACS Applied Nano Materials</i> , 2020, 3, 2713-2722.	5.0	22
28	Coupling of Hierarchical Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> Nanofibers into 3D Photothermal Aerogels Toward Simultaneous Water Evaporation and Purification. <i>Advanced Fiber Materials</i> , 2020, 2, 93-104.	16.1	81
29	Non-contact, fibrous cellulose acetate/aluminum flexible electronic-sensor for humidity detecting. <i>Composites Communications</i> , 2020, 20, 100347.	6.3	37
30	Constructing fibril-in-tube structures in ultrathin CeO <sub>2</sub> -based nanofibers as the ideal support for stabilizing Pt nanoparticles. <i>Materials Today Chemistry</i> , 2020, 17, 100333.	3.5	6
31	Comparison of Centralized and Decentralized Approaches in Cooperative Coverage Problems with Energy-Constrained Agents. , 2020, , .		2
32	Exploiting submodularity to quantify near-optimality in multi-agent coverage problems. <i>Automatica</i> , 2019, 100, 349-359.	5.0	29
33	Reset control for synchronization of multi-agent systems. <i>Automatica</i> , 2019, 104, 189-195.	5.0	29
34	A Real-Time Optimal Eco-driving Approach for Autonomous Vehicles Crossing Multiple Signalized Intersections. , 2019, , .		4
35	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.	2.6	29
36	Event-Triggered Output Regulation of Heterogeneous Multiagent Networks. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 4429-4434.	5.7	62

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37	Selective Etching of Nâ€Doped Graphene Meshes as Metalâ€Free Catalyst with Tunable Kinetics, High Activity and the Origin of New Catalytic Behaviors. Particle and Particle Systems Characterization, 2018, 35, 1700395.	2.3	12
38	Optimal Control of Autonomous Vehicles for Non-Stop Signalized Intersection Crossing. , 2018, , .		16
39	Multi-Agent Coverage Control with Energy Depletion and Repletion. , 2018, , .		3
40	Hybrid System Modeling of Multi-Agent Coverage Problems with Energy Depletion and Repletion. IFAC-PapersOnLine, 2018, 51, 223-228.	0.9	3
41	Asynchronous periodic event-triggered consensus for multi-agent systems. Automatica, 2017, 84, 214-220.	5.0	88
42	A survey on recent progress in control of swarm systems. Science China Information Sciences, 2017, 60, 1.	4.3	88
43	An input-based triggering approach to leader-following problems. Automatica, 2017, 75, 221-228.	5.0	142
44	A submodularity-based approach for multi-agent optimal coverage problems. , 2017, , .		11
45	Communication protocol design in event-triggered control of multi-agent systems. , 2016, , .		1
46	Distributed event driven optimization for network utility maximization. , 2016, , .		2
47	Pulse width modulation for multi-agent systems. Automatica, 2016, 70, 173-178.	5.0	28
48	Reset control of multi-agent systems with double integrator dynamics. , 2016, , .		1
49	Send-on-delta data fusion for state estimation in wireless sensor networks. , 2016, , .		0
50	Reset control for multi-agent systems. , 2016, , .		6
51	Periodic event-triggered average consensus over directed graphs. , 2015, , .		23
52	Sampled-data consensus in switching networks of integrators based on edge events. International Journal of Control, 2015, 88, 391-402.	1.9	76
53	Event detection and control co-design of sampled-data systems. International Journal of Control, 2014, 87, 777-786.	1.9	56
54	Optimality and stability of event triggered consensus state estimation for wireless sensor networks. , 2014, , .		28

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55	Event Based Pulse-Modulated Control of Linear Stochastic Systems. IEEE Transactions on Automatic Control, 2014, 59, 2144-2150.	5.7	40
56	Event triggered robust filter design for discrete-time systems. IET Control Theory and Applications, 2014, 8, 104-113.	2.1	99
57	Event based agreement protocols for multi-agent networks. Automatica, 2013, 49, 2125-2132.	5.0	483
58	Sensing and actuation strategies for event triggered stochastic optimal control. , 2013, , .		5
59	Event-Based Stabilization over Networks with Transmission Delays. Journal of Control Science and Engineering, 2012, 2012, 1-8.	1.0	15
60	Optimal Sampling and Performance Comparison of Periodic and Event Based Impulse Control. IEEE Transactions on Automatic Control, 2012, 57, 3252-3259.	5.7	130
61	Wide-Area Control of Power Systems Through Delayed Network Communication. IEEE Transactions on Control Systems Technology, 2012, 20, 495-503.	5.2	219
62	A delay-partitioning approach to the stability analysis of discrete-time systems. Automatica, 2010, 46, 610-614.	5.0	203
63	Stabilization of Networked Control Systems via Dynamic Output-Feedback Controllers. SIAM Journal on Control and Optimization, 2010, 48, 3643-3658.	2.1	76
64	A Generalized Parameter-Dependent Approach to Robust $H_\infty$ Filtering of Stochastic Systems. Circuits, Systems, and Signal Processing, 2009, 28, 191-204.	2.0	9
65	Network-based $H_\infty$ control for stochastic systems. International Journal of Robust and Nonlinear Control, 2009, 19, 295-312.	3.7	43
66	$H_\infty$ filter design for discrete delay systems: a new parameter-dependent approach. International Journal of Control, 2009, 82, 993-1005.	1.9	37
67	A new design of robust $H_\infty$ filters for uncertain systems. Systems and Control Letters, 2008, 57, 585-593.	2.3	94
68	A Parameter-Dependent Approach to Robust $H_\infty$ Filtering for Time-Delay Systems. IEEE Transactions on Automatic Control, 2008, 53, 2420-2425.	5.7	98
69	New Design of Robust $H_\infty$ Filters for 2-D Systems. IEEE Signal Processing Letters, 2008, 15, 217-220.	3.6	37
70	Stabilization of Networked Control Systems With a New Delay Characterization. IEEE Transactions on Automatic Control, 2008, 53, 2142-2148.	5.7	323
71	A new design of robust $H_\infty$ filters for uncertain discrete-time state-delayed systems. , 2007, , .		1
72	New Design of Robust Energy-to-Peak Filtering for Uncertain Continuous-time Systems. , 2007, , .		1

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73	A New Parameter-Dependent Approach to Robust Energy-to-Peak Filter Design. Circuits, Systems, and Signal Processing, 2007, 26, 451-471.	2.0	30