

# Xiangyu Meng

## List of Publications by Year in descending order

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73  
papers

3,282  
citations

172457

29  
h-index

149698

56  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2524  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Event based agreement protocols for multi-agent networks. <i>Automatica</i> , 2013, 49, 2125-2132.   | 5.0  | 483       |
| 2  | Stabilization of Networked Control Systems With a New Delay Characterization. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 2142-2148.   | 5.7  | 323       |
| 3  | Wide-Area Control of Power Systems Through Delayed Network Communication. <i>IEEE Transactions on Control Systems Technology</i> , 2012, 20, 495-503.  | 5.2  | 219       |
| 4  | A delay-partitioning approach to the stability analysis of discrete-time systems. <i>Automatica</i> , 2010, 46, 610-614.   | 5.0  | 203       |
| 5  | An input-based triggering approach to leader-following problems. <i>Automatica</i> , 2017, 75, 221-228.  | 5.0  | 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.  | 5.7  | 130       |
| 7  | Event triggered robust filter design for discrete-time systems. <i>IET Control Theory and Applications</i> , 2014, 8, 104-113.   | 2.1  | 99        |
| 8  | A Parameter-Dependent Approach to Robust $H_{\infty}$ Filtering for Time-Delay Systems. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 2420-2425.   | 5.7  | 98        |
| 9  | A new design of robust $H_{\infty}$ filters for uncertain systems. <i>Systems and Control Letters</i> , 2008, 57, 585-593.   | 2.3  | 94        |
| 10 | Asynchronous periodic event-triggered consensus for multi-agent systems. <i>Automatica</i> , 2017, 84, 214-220.  | 5.0  | 88        |
| 11 | A survey on recent progress in control of swarm systems. <i>Science China Information Sciences</i> , 2017, 60, 1.  | 4.3  | 88        |
| 12 | 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        |
| 13 | Stabilization of Networked Control Systems via Dynamic Output-Feedback Controllers. <i>SIAM Journal on Control and Optimization</i> , 2010, 48, 3643-3658.   | 2.1  | 76        |
| 14 | Sampled-data consensus in switching networks of integrators based on edge events. <i>International Journal of Control</i> , 2015, 88, 391-402.   | 1.9  | 76        |
| 15 | Event-Triggered Output Regulation of Heterogeneous Multiagent Networks. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 4429-4434.   | 5.7  | 62        |
| 16 | Event detection and control co-design of sampled-data systems. <i>International Journal of Control</i> , 2014, 87, 777-786.  | 1.9  | 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. | 5.8  | 54        |
| 18 | Network-based $H_{\infty}$ control for stochastic systems. <i>International Journal of Robust and Nonlinear Control</i> , 2009, 19, 295-312.   | 3.7  | 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.  | 10.0 | 42        |
| 20 | Event Based Pulse-Modulated Control of Linear Stochastic Systems. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 2144-2150.  | 5.7  | 40        |
| 21 | New Design of Robust $H_{\infty}$ Filters for 2-D Systems. <i>IEEE Signal Processing Letters</i> , 2008, 15, 217-220.   | 3.6  | 37        |
| 22 | $H_{\infty}$ filter design for discrete delay systems: a new parameter-dependent approach. <i>International Journal of Control</i> , 2009, 82, 993-1005.  | 1.9  | 37        |
| 23 | Non-contact, fibrous cellulose acetate/aluminum flexible electronic-sensor for humidity detecting. <i>Composites Communications</i> , 2020, 20, 100347.   | 6.3  | 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. | 6.7  | 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.    | 10.3 | 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.      | 6.3  | 32        |
| 27 | Distributed edge-based event-triggered coordination control for multi-agent systems. <i>Automatica</i> , 2021, 132, 109797.   | 5.0  | 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.                       | 10.3 | 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.   | 2.0  | 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.      | 8.3  | 30        |
| 31 | Exploiting submodularity to quantify near-optimality in multi-agent coverage problems. <i>Automatica</i> , 2019, 100, 349-359.  | 5.0  | 29        |
| 32 | Reset control for synchronization of multi-agent systems. <i>Automatica</i> , 2019, 104, 189-195.   | 5.0  | 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. | 2.6  | 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.  | 5.0  | 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 <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> Microspheres for Photothermally Enhanced H <sub>2</sub> Generation from Ammonia Borane. ACS Applied Nano Materials, 2020, 3, 2713-2722.                  | 5.0  | 22        |
| 38 | 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        |
| 39 | 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        |
| 40 | Adaptive Consensus and Parameter Estimation of Multiagent Systems With an Uncertain Leader. IEEE Transactions on Automatic Control, 2021, 66, 4393-4400.   | 5.7  | 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.   | 1.0  | 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.   | 5.4  | 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.                                  | 8.0  | 15        |
| 45 | A metformin-based nanoreactor alleviates hypoxia and reduces ATP for cancer synergistic therapy. Biomaterials Science, 2021, 9, 7456-7470.   | 5.4  | 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.   | 2.3  | 12        |
| 47 | 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        |
| 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.  | 3.7  | 11        |
| 50 | A Generalized Parameter-Dependent Approach to Robust H <sub>∞</sub> Filtering of Stochastic Systems. Circuits, Systems, and Signal Processing, 2009, 28, 191-204.  | 2.0  | 9         |
| 51 | One stone two birds: a sinter-resistant TiO <sub>2</sub> nanofiber-based unbroken mat enables PM capture and in situ elimination. Nanoscale, 2021, 13, 20564-20575.  | 5.6  | 9         |
| 52 | Reset control for multi-agent systems. , 2016, , .   |      | 6         |
| 53 | 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. Composites Communications, 2020, 21, 100394.  | 6.3  | 6         |
| 54 | 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         |

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|----|---|-----|-----------|
| 55 | 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         |
| 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 &amp; Interfaces</i> , 2021, 13, 26561-26572. | 8.0 | 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.  | 2.8 | 4         |
| 60 | A Robust Control Approach to Event-Triggered Networked Control Systems With Time-Varying Delays. <i>IEEE Access</i> , 2021, 9, 64653-64664.   | 4.2 | 4         |
| 61 | Mechanical Failure Mechanism of Silicon-Based Composite Anodes under Overdischarging Conditions Based on Finite Element Analysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 34157-34167.                        | 8.0 | 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.  | 0.9 | 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.   | 3.7 | 2         |
| 67 | A new design of robust H <sub>∞</sub> 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 <sub>2</sub> O <sub>3</sub> Nanosheets on TiO <sub>2</sub> -Based Nanofibers: A Sustained-release Dominated Topotactic Transformation. <i>ChemNanoMat</i> , 2022, 8, .                       | 2.8 | 1         |
| 72 | Send-on-delta data fusion for state estimation in wireless sensor networks. , 2016, , .   |     | 0         |

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|----|--|-----|-----------|
| 73 | On the Role of Matrix-Weights Elements in Consensus Algorithms for Multi-Agent Systems. Network, 2021, 1, 233-246. | 2.4 | 0         |