

# Mengqi Yuan

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,091  
citations

623734

14  
h-index

414414

32  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1302  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational design on separators and liquid electrolytes for safer lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 43, 58-70.	12.9	170
2	Diffuse pollution characteristics of respirable dust in fully-mechanized mining face under various velocities based on CFD investigation. <i>Journal of Cleaner Production</i> , 2018, 184, 239-250.	9.3	153
3	An Aqueous Inorganic Polymer Binder for High Performance Lithium-Sulfur Batteries with Flame-Retardant Properties. <i>ACS Central Science</i> , 2018, 4, 260-267.	11.3	147
4	A review of fire-extinguishing agent on suppressing lithium-ion batteries fire. <i>Journal of Energy Chemistry</i> , 2021, 62, 262-280.	12.9	82
5	Thin Co <sub>3</sub> O <sub>4</sub> nanosheet array on 3D porous graphene/nickel foam as a binder-free electrode for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2016, 188, 222-229.	5.2	80
6	A <i>Sinorhizobium meliloti</i> -specific N-acyl homoserine lactone quorum-sensing signal increases nodule numbers in <i>Medicago truncatula</i> independent of autoregulation. <i>Frontiers in Plant Science</i> , 2014, 5, 551.	3.6	55
7	Duplication of <i>OsHAP</i> family genes and their association with heading date in rice. <i>Journal of Experimental Botany</i> , 2016, 67, 1759-1768.	4.8	34
8	Numerical simulation analysis of explosion process and destructive effect by gas explosion accident in buildings. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 49, 215-227.	3.3	29
9	Thermal conductivity of polyamide 12 powder for use in laser sintering. <i>Rapid Prototyping Journal</i> , 2013, 19, 437-445.	3.2	25
10	Case study of a natural gas explosion in Beijing, China. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 49, 401-410.	3.3	23
11	CFD investigation on diffusing dynamics of respirable dust coupled with multiple sources on a longwall face: A case study from meso-scale. <i>Powder Technology</i> , 2019, 345, 43-53.	4.2	19
12	Traceability and failure consequences of natural gas explosion accidents based on key investigation technology. <i>Engineering Failure Analysis</i> , 2022, 139, 106448.	4.0	19
13	Ballistic behaviors of injection-molded honeycomb composite. <i>Journal of Materials Science</i> , 2018, 53, 14287-14298.	3.7	16
14	Crowd macro state detection using entropy model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 431, 84-93.	2.6	15
15	Optimization monitoring distribution method for gas pipeline leakage detection in underground spaces. <i>Tunnelling and Underground Space Technology</i> , 2020, 104, 103545.	6.2	15
16	Rapid prediction of polymer stab resistance performance. <i>Materials and Design</i> , 2020, 192, 108721.	7.0	15
17	Investigation on the explosion limits and flame propagation characteristics of premixed methanol-gasoline blends. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101000.	5.7	14
18	Physiological and perceptual responses while wearing stab-resistant body armor in hot and humid environment. <i>Journal of Thermal Biology</i> , 2019, 86, 102451.	2.5	13

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19	Optimization of the gas leak monitoring points distributed underground. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 47, 95-103.	3.3	12
20	Experimental Studies of Electromagnetic Wave Attenuation by Flame and Smoke in Structure Fire. <i>Fire Technology</i> , 2017, 53, 5-27.	3.0	12
21	Egg-shell structure design for stab resistant body armor. <i>Materials Today Communications</i> , 2018, 16, 26-36.	1.9	11
22	Thermal model and measurements of polymer laser sintering. <i>Rapid Prototyping Journal</i> , 2015, 21, 2-13.	3.2	9
23	An integrated biomarker response index for the mussel <i>Mytilus edulis</i> based on laboratory exposure to anthracene and field transplantation experiments. <i>Chinese Journal of Oceanology and Limnology</i> , 2017, 35, 1165-1178.	0.7	9
24	Quantitative risk assessment of direct lightning strike on external floating roof tank. <i>Journal of Loss Prevention in the Process Industries</i> , 2018, 56, 191-203.	3.3	9
25	Highly ordered nanoporous Sn-Ni alloy film anode with excellent lithium storage performance. <i>Materials Letters</i> , 2015, 138, 139-142.	2.6	8
26	Effects of a liquid cooling vest on physiological and perceptual responses while wearing stab-resistant body armor in a hot environment. <i>International Journal of Occupational Safety and Ergonomics</i> , 2022, 28, 1025-1032.	1.9	8
27	Optical properties of laser sintered polyamide 12. <i>Rapid Prototyping Journal</i> , 2015, 21, 443-448.	3.2	7
28	Prediction of thermal skin burn based on the combined mathematical model of the skin and clothing. <i>Journal of the Textile Institute</i> , 2018, 109, 1606-1612.	1.9	7
29	Large-scale experimental investigation of the effects of gas explosions in underdrains. <i>Journal of Safety Science and Resilience</i> , 2021, 2, 90-99.	2.3	7
30	Experimental study of thermal comfort on stab resistant body armor. <i>SpringerPlus</i> , 2016, 5, 1168.	1.2	6
31	Two-dimensional electron gas in GaAs/SrHfO <sub>3</sub> heterostructure. <i>Journal of Applied Physics</i> , 2016, 119, 235304.	2.5	6
32	Orientation effects for laser sintered polyamide optically translucent parts. <i>Rapid Prototyping Journal</i> , 2016, 22, 97-103.	3.2	6
33	Quality improvement of optically translucent parts manufactured from LS and SL. <i>Rapid Prototyping Journal</i> , 2016, 22, 87-96.	3.2	6
34	Structural design of a 3-D printed stab resistant body armor. <i>Rapid Prototyping Journal</i> , 2019, 25, 143-151.	3.2	6
35	Polyamide 11-MWNT nanocomposites: Thermal and electrical conductivity measurements. <i>Journal of Composite Materials</i> , 2014, 48, 1833-1841.	2.4	5
36	Metallic behavior of GaAs/BaTiO <sub>3</sub> heterostructure. <i>Europhysics Letters</i> , 2016, 115, 16001.	2.0	4

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37	Gas concentration detection via multi-channeled air sampling method. <i>Sensor Review</i> , 2017, 37, 187-195.	1.8	4
38	Dynamic responses and energy absorption of hollow sphere structure subjected to blast loading. <i>Materials and Design</i> , 2019, 181, 107920.	7.0	4
39	Stability and band offsets between GaAs semiconductor and CeO <sub>2</sub> gate dielectric. <i>AIP Advances</i> , 2019, 9, 025117.	1.3	4
40	Quantitative evaluation of explosion consequences in urban underground drainage. <i>Tunnelling and Underground Space Technology</i> , 2021, 111, 103779.	6.2	4
41	Mechanical response of human torso under blast loading. <i>Safety Science</i> , 2020, 131, 104936.	4.9	3
42	Evaluation of physiological and psychophysical strain of security guards wearing stab-resistant body armor under a simulated patrol condition. <i>Textile Research Journal</i> , 2022, 92, 2651-2661.	2.2	3
43	The structure and electronic properties of Ge/SrZrO <sub>3</sub> . <i>Vacuum</i> , 2016, 130, 165-173.	3.5	2
44	Controlling Town Industry Explosion Hazard in China. <i>International Journal of Disaster Risk Science</i> , 2016, 7, 440-444.	2.9	1
45	Integrated biomarker response index used in laboratory exposure of the mussel <i>Mytilus edulis</i> to water accommodated fractions of crude oil. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
46	Constructing early warning information release system in towns enterprise clean production. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 81, 012048.	0.3	0
47	Effects of Explosion Shock Waves on Lung Injuries in Rabbits. <i>Shock and Vibration</i> , 2021, 2021, 1-10.	0.6	0
48	Topological study about deformation behavior and energy absorption performances of 3D chiral structures under dynamic impacts. <i>Journal of Strain Analysis for Engineering Design</i> , 0, , 030932472211018.	1.8	0