Li Zhao

List of Publications by Year
in descending order

34	2,931	218677	377865
papers	citations	26 h-index	34 g-index

34	34	34	2055
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient Flame Detection and Early Warning Sensors on Combustible Materials Using Hierarchical Graphene Oxide/Silicone Coatings. ACS Nano, 2018, 12, 416-424.	14.6	227
2	Facile synthesis of super-hydrophobic, electrically conductive and mechanically flexible functionalized graphene nanoribbon/polyurethane sponge for efficient oil/water separation at static and dynamic states. Chemical Engineering Journal, 2018, 334, 2154-2166.	12.7	207
3	Water-based hybrid coatings toward mechanically flexible, super-hydrophobic and flame-retardant polyurethane foam nanocomposites with high-efficiency and reliable fire alarm response. Composites Part B: Engineering, 2020, 193, 108017.	12.0	176
4	Three-dimensional graphene-based polymer nanocomposites: preparation, properties and applications. Nanoscale, 2018, 10, 14788-14811.	5.6	162
5	Facile and green fabrication of flame-retardant Ti3C2Tx MXene networks for ultrafast, reusable and weather-resistant fire warning. Chemical Engineering Journal, 2022, 427, 131615.	12.7	149
6	Silane grafted graphene oxide papers for improved flame resistance and fast fire alarm response. Composites Part B: Engineering, 2019, 168, 413-420.	12.0	135
7	Temperature-responsive resistance sensitivity controlled by L-ascorbic acid and silane co-functionalization in flame-retardant GO network for efficient fire early-warning response. Chemical Engineering Journal, 2020, 386, 123894.	12.7	127
8	Facile and green synthesis of mechanically flexible and flame-retardant clay/graphene oxide nanoribbon interconnected networks for fire safety and prevention. Chemical Engineering Journal, 2021, 405, 126620.	12.7	116
9	Construction of sandwich-like porous structure of graphene-coated foam composites for ultrasensitive and flexible pressure sensors. Nanoscale, 2019, 11, 10229-10238.	5.6	111
10	Temperature-triggered sensitive resistance transition of graphene oxide wide-ribbons wrapped sponge for fire ultrafast detecting and early warning. Journal of Hazardous Materials, 2019, 363, 286-294.	12.4	111
11	Temperature dependence of creep and recovery behaviors of polymer composites filled with chemically reduced graphene oxide. Composites Part A: Applied Science and Manufacturing, 2015, 69, 288-298.	7.6	103
12	Polymer grafted reduced graphene oxide sheets for improving stress transfer in polymer composites. Composites Science and Technology, 2016, 134, 144-152.	7.8	103
13	Smart fire-warning materials and sensors: Design principle, performances, and applications. Materials Science and Engineering Reports, 2022, 150, 100690.	31.8	91
14	Mechanically flexible, super-hydrophobic and flame-retardant hybrid nano-silica/graphene oxide wide ribbon decorated sponges for efficient oil/water separation and fire warning response. Composites Part A: Applied Science and Manufacturing, 2021, 140, 106191.	7.6	90
15	A novel and facile strategy for highly flame retardant polymer foam composite materials: Transforming silicone resin coating into silica self-extinguishing layer. Journal of Hazardous Materials, 2017, 336, 222-231.	12.4	87
16	Bamboo-inspired mechanically flexible and electrically conductive polydimethylsiloxane foam materials with designed hierarchical pore structures for ultra-sensitive and reliable piezoresistive pressure sensor. Composites Part B: Engineering, 2021, 225, 109243.	12.0	87
17	Silane bonded graphene aerogels with tunable functionality and reversible compressibility. Carbon, 2016, 107, 573-582.	10.3	83
18	Efficient interfacial interaction for improving mechanical properties of polydimethylsiloxane nanocomposites filled with low content of graphene oxide nanoribbons. RSC Advances, 2017, 7, 22045-22053.	3.6	82

#	Article	IF	Citations
19	Design of mechanically stable, electrically conductive and highly hydrophobic three-dimensional graphene nanoribbon composites by modulating the interconnected network on polymer foam skeleton. Composites Science and Technology, 2019, 171, 162-170.	7.8	82
20	In situ reactive self-assembly of a graphene oxide nano-coating in polymer foam materials with synergistic fire shielding properties. Journal of Materials Chemistry A, 2019, 7, 27032-27040.	10.3	78
21	One-step and green synthesis of lightweight, mechanically flexible and flame-retardant polydimethylsiloxane foam nanocomposites via surface-assembling ultralow content of graphene derivative. Chemical Engineering Journal, 2020, 393, 124724.	12.7	78
22	Ultrafast Flame-Induced Pyrolysis of Poly(dimethylsiloxane) Foam Materials toward Exceptional Superhydrophobic Surfaces and Reliable Mechanical Robustness. ACS Applied Materials & Interfaces, 2021, 13, 23161-23172.	8.0	78
23	Processing, thermal conductivity and flame retardant properties of silicone rubber filled with different geometries of thermally conductive fillers: A comparative study. Composites Part B: Engineering, 2022, 238, 109907.	12.0	76
24	Simultaneous improvements in fire resistance and alarm response of GO paper via one-step 3-mercaptopropyltrimethoxysilane functionalization for efficient fire safety and prevention. Composites Part A: Applied Science and Manufacturing, 2020, 131, 105797.	7.6	72
25	Enhanced mechanical property and flame resistance of graphene oxide nanocomposite paper modified with functionalized silica nanoparticles. Composites Part B: Engineering, 2019, 177, 107347.	12.0	61
26	Fracture Behaviors of TRGO-Filled Epoxy Nanocomposites with Different Dispersion/Interface Levels. Macromolecular Materials and Engineering, 2015, 300, 737-749.	3.6	46
27	Improved interfacial properties between glass fibers and tetra-functional epoxy resins modified with silica nanoparticles. Fibers and Polymers, 2015, 16, 2056-2065.	2.1	24
28	An insulating second filler tuning porous conductive composites for highly sensitive and fast responsive organic vapor sensor. Sensors and Actuators B: Chemical, 2019, 285, 254-263.	7.8	23
29	Green and Rapid Preparation of Fluorosilicone Rubber Foam Materials with Tunable Chemical Resistance for Efficient Oilâ€“Water Separation. Polymers, 2022, 14, 1628.	4.5	18
30	Using environmental nudges to reduce academic cheating in young children. Developmental Science, 2021, 24, e13108.	2.4	14
31	Effects of Trust and Threat Messaging on Academic Cheating: A Field Study. Psychological Science, 2021, 32, 735-742.	3.3	11
32	A Metal-Free Synthesis of 3-Phenoxyimidazo Heterocycles by Catalytic Oxidative Cyclization of 2-Amino-azaarenes with Lignin Models. Synthesis, 2018, 50, 3169-3176.	2.3	10
33	Overheard conversations can influence childrenâ€™s generosity. Developmental Science, 2021, 24, e13068.	2.4	7
34	Superhydrophobic and Superparamagnetic Composite Coatings: A Comparative Study on Dual-Sized Functional Magnetite Nanoparticles/Silicone Rubber. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 1816-1825.	3.7	6