Mengyao Gao

List of Publications by Year
in descending order

21 papers	1,323 citations	471371 17 h-index	713332 21 g-index
21 all docs	21 docs citations	21 times ranked	1869 citing authors

#	Article	IF	Citations
1	Realization of robust mesoscale ionic diodes for ultrahigh osmotic energy generation at mild neutral pH. Journal of Materials Chemistry A, 2021, 9, 20502-20509.	5.2	21
2	Unraveling the anomalous channel-length-dependent blue energy conversion using engineered alumina nanochannels. Nano Energy, 2021, 84, 105930.	8.2	52
3	â€œRobustâ€“Softâ€•Anisotropic Nanofibrillated Cellulose Aerogels with Superior Mechanical, Flame-Retardant, and Thermal Insulating Properties. ACS Applied Materials & Interfaces, 2021, 13, 27458-27470.	4.0	52
4	Single Mesopores with High Surface Charges as Ultrahigh Performance Osmotic Power Generators. Small, 2020, 16, e2006013.	5.2	37
5	Cagelike CoSe₂@N-Doped Carbon Aerogels with Pseudocapacitive Properties as Advanced Materials for Sodium-Ion Batteries with Excellent Rate Performance and Cyclic Stability. ACS Applied Materials & Interfaces, 2020, 12, 33621-33630.	4.0	56
6	Dual-Functional Multichannel Carbon Framework Embedded with CoS₂ Nanoparticles: Promoting the Phase Transformation for High-Loading Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2020, 12, 32726-32735.	4.0	40
7	Establishment of enhanced geothermal energy utilization plans: Barriers and strategies. Renewable Energy, 2019, 132, 19-32.	4.3	130
8	A rapid and green method for the fabrication of conductive hydrogels and their applications in stretchable supercapacitors. Journal of Power Sources, 2019, 426, 205-215.	4.0	77
9	A cross-disciplinary overview of naturally derived materials for electrochemical energy storage. Materials Today Energy, 2018, 7, 58-79.	2.5	58
10	Advances and challenges in sustainable tourism toward a green economy. Science of the Total Environment, 2018, 635, 452-469.	3.9	300
11	Advances and challenges of green materials for electronics and energy storage applications: from design to end-of-life recovery. Journal of Materials Chemistry A, 2018, 6, 20546-20563.	5.2	96
12	A high performance lithiumâ€“sulfur battery enabled by a fish-scale porous carbon/sulfur composite and symmetric fluorinated diethoxyethane electrolyte. Journal of Materials Chemistry A, 2017, 5, 6725-6733.	5.2	38
13	Multi-state memristive behavior in a light-emitting electrochemical cell. Journal of Materials Chemistry C, 2017, 5, 11421-11428.	2.7	6
14	An in situ self-developed graphite as high capacity anode of lithium-ion batteries. Chemical Communications, 2015, 51, 12118-12121.	2.2	17
15	Chitosan as a functional additive for high-performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 15235-15240.	5.2	85
16	Dischargeâ€“charge process of the porous sulfur/carbon nanocomposite cathode for rechargeable lithium sulfur batteries. Journal of Power Sources, 2014, 248, 1149-1155.	4.0	18
17	A gelatin-based solâ€“gel procedure to synthesize the LiFePO4/C nanocomposite for lithium ion batteries. Solid State Ionics, 2014, 258, 8-12.	1.3	25
18	Inhibition on polysulfides dissolve during the discharge-charge by using fish-scale-based porous carbon for lithium-sulfur battery. Electrochimica Acta, 2014, 149, 258-263.	2.6	15

#	Article	IF	Citations
19	Effect of gelatin concentration on the synthetize of the LiFePO4/C composite for lithium ion batteries. Journal of Alloys and Compounds, 2014, 599, 127-130.	2.8	16
20	A novel porous nanocomposite of sulfur/carbon obtained from fish scales for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2013, 1, 3334.	5.2	167
21	Enhanced performance of the sulfur cathode with L-cysteine-modified gelatin binder. Journal of Adhesion Science and Technology, 2013, 27, 1006-1011.	1.4	17