Mengqiang Wu

List of Publications by Year
in descending order

51 papers	1,581 citations	331670 21 h-index	302126 39 g-index
51 all docs	51 docs citations	51 times ranked	2219 citing authors

#	Article	IF	Citations
1	Designing a highly efficient polysulfide conversion catalyst with paramontroseite for high-performance and long-life lithium-sulfur batteries. Nano Energy, 2019, 57, 230-240.	16.0	190
2	Efficient Trapping and Catalytic Conversion of Polysulfides by VS₄ Nanosites for Liâ€“S Batteries. ACS Energy Letters, 2019, 4, 755-762.	17.4	185
3	Graphene Oxideâ€Template Controlled Cuboidâ€Shaped Highâ€Capacity VS₄ Nanoparticles as Anode for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1801806.	14.9	125
4	Molybdenum and tungsten disulfides-based nanocomposite films for energy storage and conversion: A review. Chemical Engineering Journal, 2018, 348, 908-928.	12.7	98
5	Direct Structureâ€“Performance Comparison of Allâ€Carbon Potassium and Sodium Ion Capacitors. Advanced Science, 2019, 6, 1802272.	11.2	98
6	Controllable morphologies and electrochemical performances of self-assembled nano-honeycomb WS2 anodes modified by graphene doping for lithium and sodium ion batteries. Carbon, 2019, 142, 697-706.	10.3	76
7	Tailored N-doped porous carbon nanocomposites through MOF self-assembling for Li/Na ion batteries. Journal of Colloid and Interface Science, 2019, 538, 267-276.	9.4	63
8	Enhanced Electrochemical and Thermal Transport Properties of Graphene/MoS₂ Heterostructures for Energy Storage: Insights from Multiscale Modeling. ACS Applied Materials & Interfaces, 2018, 10, 14614-14621.	8.0	56
9	Enhanced Optical Performance of BaMgAl₁₀O₁₇:Eu²⁺ Phosphor by a Novel Method of Carbon Coating. Journal of Physical Chemistry C, 2016, 120, 2355-2361.	3.1	51
10	Insights into pseudographite-structured hard carbon with stabilized performance for high energy K-ion storage. Journal of Power Sources, 2019, 444, 227310.	7.8	50
11	Systematic comparison of hollow and solid Co 3 V 2 O 8 micro-pencils as advanced anode materials for lithium ion batteries. Electrochimica Acta, 2018, 264, 358-366.	5.2	49
12	High Rate and Long Cycle Life of a CNT/rGO/Si Nanoparticle Composite Anode for Lithiumâ€Ion Batteries. Particle and Particle Systems Characterization, 2017, 34, 1700141.	2.3	38
13	Enhancing ionic conductivity in solid electrolyte by relocating diffusion ions to under-coordination sites. Science Advances, 2022, 8, eabj7698.	10.3	37
14	Novel spherical cobalt/nickel mixed-vanadates as high-capacity anodes in lithium ion batteries. Journal of Alloys and Compounds, 2018, 766, 442-449.	5.5	33
15	Cellulose-Hydrogel-Derived Self-Activated Carbon/SnO₂ Nanocomposites for High-Performance Lithium Storage. ACS Applied Energy Materials, 2019, 2, 5171-5182.	5.1	29
16	Optimized sulfur-loading in nitrogen-doped porous carbon for high-capacity cathode of lithiumâ€“sulfur batteries. Applied Surface Science, 2019, 487, 784-792.	6.1	29
17	MOF-derived manganese monoxide nanosheet-assembled microflowers for enhanced lithium-ion storage. Nanoscale, 2019, 11, 10763-10773.	5.6	29
18	A Facile Approach to Tune the Electrical and Thermal Properties of Graphene Aerogels by Including Bulk MoS2. Nanomaterials, 2017, 7, 420.	4.1	28

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19	Dual-heterostructures decorated interweaved carbon nanofibers sulfur host for high performance lithium-sulfur batteries. Chemical Engineering Journal, 2021, 418, 129388.	12.7	27
20	Graphene enhanced silicon/carbon composite as anode for high performance lithium-ion batteries. RSC Advances, 2017, 7, 48286-48293.	3.6	26
21	SnO2 nano-crystals anchored on N-doped porous carbon with enhanced lithium storage properties. Applied Surface Science, 2020, 515, 145902.	6.1	26
22	Graphene coated Co₃V₂O₈ micro-pencils for enhanced-performance in lithium ion batteries. New Journal of Chemistry, 2017, 41, 10634-10639.	2.8	18
23	Effective thermal transport properties in multiphase biological systems containing carbon nanomaterials. RSC Advances, 2017, 7, 13615-13622.	3.6	18
24	Effects of ester-based electrolyte composition and salt concentration on the Na-storage stability of hard carbon anodes. Journal of Power Sources, 2020, 471, 228455.	7.8	17
25	Excellent Electrochemical Performance of Potassium Ion Capacitor Achieved by a High Nitrogen Doped Activated Carbon. Journal of the Electrochemical Society, 2020, 167, 050506.	2.9	17
26	Bimetallic composite induced ultra-stable solid electrolyte interphase for dendrite-free lithium metal anode. Journal of Colloid and Interface Science, 2021, 599, 819-827.	9.4	15
27	Simultaneously in-situ fabrication of lithium fluoride and sulfide enriched artificial solid electrolyte interface facilitates high stable lithium metal anode. Chemical Engineering Journal, 2022, 433, 133193.	12.7	14
28	Investigation of the electrochemical performance of polyvinylidene fluoride-derived LiFePO4/C composite nanospheres. Journal of Materials Science, 2018, 53, 1279-1285.	3.7	13
29	Capacity Contribution Induced by Pseudo-Capacitance Adsorption Mechanism of Anode Carbonaceous Materials Applied in Potassium-ion Battery. Frontiers in Chemistry, 2019, 7, 640.	3.6	13
30	Hydrophilic binder interface interactions inducing inadhesion and capacity collapse in sodium-ion battery. Journal of Power Sources, 2019, 427, 62-69.	7.8	13
31	Effects of Different Atmosphere on Electrochemical Performance of Hard Carbon Electrode in Sodium Ion Battery. Electronic Materials Letters, 2019, 15, 428-436.	2.2	13
32	Activation-free N-doped porous carbon to enhance surface-driven K storage vs intercalation dominated Na storage. Applied Surface Science, 2020, 506, 144909.	6.1	13
33	Pure-phase Î²-Mn₂V₂O₇ interconnected nanospheres as a high-performance lithium ion battery anode. Chemical Communications, 2020, 56, 8043-8046.	4.1	10
34	Effect of La2O3 addition on the microwave dielectric properties of Ba(Mg1/3Ta2/3)O3 ceramics. Journal of Materials Science: Materials in Electronics, 2017, 28, 3349-3355.	2.2	9
35	Effect of ZrO2 Doping on the Microwave Dielectric Properties of Ba(Mg1/3Nb2/3)O3 Ceramics. Journal of Electronic Materials, 2017, 46, 2172-2178.	2.2	6
36	Microwave dielectric properties of Ba[Mg(1â^'x)/3Sn x Ta2(1â^'x)/3]O3 (xÂ=Â0â€“0.25) ceramics. Journal of Materials Science: Materials in Electronics, 2017, 28, 174-179.	2.2	6

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37	Multi-dimensional hybrid flexible films promote uniform lithium deposition and mitigate volume change as lithium metal anodes. Journal of Energy Chemistry, 2022, 65, 583-591.	12.9	6
38	Electrochemical deposition of ZnCo₂O₄/NiCo₂S₄ nanosheet arrays for high-performance supercapacitors. New Journal of Chemistry, 2022, 46, 12686-12695.	2.8	6
39	Chemically Modified Polyvinyl Butyral Polymer Membrane as a Gel Electrolyte for Lithium Ion Battery Applications. Macromolecular Materials and Engineering, 2019, 304, 1800477.	3.6	5
40	Intelligent phase-transition MnO₂ single-crystal shell enabling a high-capacity Li-rich layered cathode in Li-ion batteries. RSC Advances, 2021, 11, 12771-12783.	3.6	4
41	High loading of NiFe active sites on a melamine formaldehyde carbon-based aerogel towards efficient bi-functional electrocatalysis for water splitting. Sustainable Energy and Fuels, 2021, 5, 4973-4980.	4.9	4
42	Nanoparticles constructed mesoporous coral-like Mn2O3 as high performance anode for lithium-ion batteries. Ceramics International, 2022, 48, 26539-26545.	4.8	4
43	Potassium Ion Storage: Direct Structureâ€“Performance Comparison of Allâ€Carbon Potassium and Sodium Ion Capacitors (Adv. Sci. 12/2019). Advanced Science, 2019, 6, 1970075.	11.2	3
44	Communicationâ€”Phosphate K(Mo₂PO₆)(P₂O₇) as a Novel Cathode Material for Potassium Ion Batteries: Structure and Electrochemical Properties. Journal of the Electrochemical Society, 2020, 167, 110517.	2.9	3
45	Rational design and controllable synthesis of polymer aerogel-based single-atom catalysts with high loading. Materials Advances, 2021, 2, 6885-6900.	5.4	3
46	Organicâ€“inorganic hybrid ferrocene/AC as cathodes for wide temperature range aqueous Zn-ion supercapacitors. RSC Advances, 2022, 12, 18466-18474.	3.6	3
47	Some aspects affecting transmittance spectra of composite smart film WO/sub 3/. IEEE Transactions on Components and Packaging Technologies, 1999, 22, 17-20.	1.3	1
48	A high specific surface area porous carbon skeleton derived from MOF for high-performance Lithium-ion capacitors. IOP Conference Series: Earth and Environmental Science, 2021, 844, 012002.	0.3	1
49	Transparent pentacene organic thin film transistors with polyimide dielectrics. , 2014, , .		0
50	High stability gel electrolytes for long life lithium ion solid state supercapacitor. E3S Web of Conferences, 2021, 257, 01084.	0.5	0
51	MOF derived carbon with ultra-high specific surface area and pore volume for lithium-ion capacitor cathodes. IOP Conference Series: Earth and Environmental Science, 2021, 844, 012003.	0.3	0