Xinyu Wang

List of Publications by Year
in descending order

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41 papers	3,461 citations	304743 22 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	3990 citing authors

#	Article	IF	Citations
1	Aqueous rechargeable zinc/sodium vanadate batteries with enhanced performance from simultaneous insertion of dual carriers. Nature Communications, 2018, 9, 1656.	12.8	1,162
2	An Aqueous Rechargeable Zincâ€Organic Battery with Hybrid Mechanism. Advanced Functional Materials, 2018, 28, 1804975.	14.9	462
3	A Flexible Nanostructured Paper of a Reduced Graphene Oxideâ€“Sulfur Composite for Highâ€Performance Lithiumâ€“Sulfur Batteries with Unconventional Configurations. Advanced Materials, 2016, 28, 9629-9636.	21.0	308
4	Freestanding carbon fiber cloth/sulfur composites for flexible room-temperature sodium-sulfur batteries. Energy Storage Materials, 2017, 8, 77-84.	18.0	175
5	Uniform Zn Deposition Achieved by Ag Coating for Improved Aqueous Zinc-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 16869-16875.	8.0	129
6	Preparation of Superparamagnetic Fe₃O₄@Alginate/Chitosan Nanospheres for Candida rugosa lipase Immobilization and Utilization of Layer-by-Layer Assembly to Enhance the Stability of Immobilized Lipase. ACS Applied Materials & Interfaces, 2012, 4, 5169-5178.	8.0	110
7	Largeâ€Area Reduced Graphene Oxide Composite Films for Flexible Asymmetric Sandwich and Microsized Supercapacitors. Advanced Functional Materials, 2018, 28, 1707247.	14.9	103
8	Tunable oxygen vacancy concentration in vanadium oxide as mass-produced cathode for aqueous zinc-ion batteries. Nano Research, 2021, 14, 754-761.	10.4	96
9	Highly stretchable integrated system for micro-supercapacitor with AC line filtering and UV detector. Nano Energy, 2017, 42, 187-194.	16.0	85
10	Foldable All-Solid-State Supercapacitors Integrated with Photodetectors. Advanced Functional Materials, 2017, 27, 1604639.	14.9	83
11	Dual-Functional Graphene Carbon as Polysulfide Trapper for High-Performance Lithium Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 5594-5602.	8.0	83
12	Vanadium pentoxide nanosheets as cathodes for aqueous zinc-ion batteries with high rate capability and long durability. Applied Surface Science, 2020, 502, 144207.	6.1	66
13	Vanadium Pentoxide Nanosheets in-Situ Spaced with Acetylene Black as Cathodes for High-Performance Zinc-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 41297-41303.	8.0	62
14	Freestanding reduced graphene oxide/sodium vanadate composite films for flexible aqueous zinc-ion batteries. Science China Chemistry, 2019, 62, 609-615.	8.2	51
15	High mass loading CaV4O9 microflowers with amorphous phase transformation as cathode for aqueous zinc-ion battery. Chemical Engineering Journal, 2022, 434, 134642.	12.7	46
16	A Consecutive Spray Printing Strategy to Construct and Integrate Diverse Supercapacitors on Various Substrates. ACS Applied Materials & Interfaces, 2017, 9, 28612-28619.	8.0	41
17	Facile synthesis of oxidic PEG-modified magnetic polydopamine nanospheres for Candida rugosa lipase immobilization. Applied Microbiology and Biotechnology, 2015, 99, 1249-1259.	3.6	36
18	3D Ni/Na metal anode for improved sodium metal batteries. Materials Letters, 2020, 275, 128206.	2.6	35

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19	A novel organic-inorganic hybrid V2O5@polyaniline as high-performance cathode for aqueous zinc-ion batteries. Materials Letters, 2020, 272, 127813.	2.6	35
20	Polypyrrole Wrapped V2O5 Nanowires Composite for Advanced Aqueous Zinc-Ion Batteries. Frontiers in Energy Research, 2020, 8, .	2.3	30
21	Dendrite-free lithium metal anode enabled by ion/electron-conductive N-doped 3D carbon fiber interlayer. Journal of Power Sources, 2021, 489, 229524.	7.8	27
22	Vanadium Pentoxide Nanofibers/Carbon Nanotubes Hybrid Film for High-Performance Aqueous Zinc-Ion Batteries. Nanomaterials, 2021, 11, 1054.	4.1	26
23	Direct synthesis of tin spheres/nitrogen-doped porous carbon composite by self-formed template method for enhanced lithium storage. Journal of Materials Science and Technology, 2022, 104, 88-97.	10.7	24
24	All-solid-state supercapacitors with superior compressive strength and volumetric capacitance. Energy Storage Materials, 2018, 13, 119-126.	18.0	21
25	An Allâ€Freezeâ€Casting Strategy to Design Typographical Supercapacitors with Integrated Architectures. Small, 2018, 14, e1800280.	10.0	21
26	Microwave-assisted in-situ isomorphism via introduction of Mn into CoCo2O4 for battery-supercapacitor hybrid electrode material. Chemical Engineering Journal, 2022, 430, 132729.	12.7	21
27	A metalâ€“organic framework derived electrical insulatingâ€“conductive double-layer configuration for stable lithium metal anodes. Journal of Materials Chemistry A, 2021, 9, 13661-13669.	10.3	20
28	Facile large-scale preparation of vanadium pentoxide -polypyrrole composite for aqueous zinc-ion batteries. Journal of Alloys and Compounds, 2022, 907, 164434.	5.5	18
29	A sustainable strategy for fabricating porous carbon supported Sn submicron spheres by self-generated Na₂CO₃as templates for lithium-ion battery anode. Green Chemistry, 2021, 23, 6490-6500.	9.0	14
30	A strategy associated with conductive binder and 3D current collector for aqueous zinc-ion batteries with high mass loading. Journal of Electroanalytical Chemistry, 2020, 873, 114395.	3.8	13
31	Composite of manganese dioxide impregnated in porous hollow carbon spheres for flexible asymmetric solidâ€state supercapacitors. International Journal of Energy Research, 2019, 43, 9025-9033.	4.5	12
32	Synthesis of magnetic thermosensitive microcontainers for enzyme immobilization. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	9
33	Mixed phase sodium manganese oxide as cathode for enhanced aqueous zinc-ion storage. Chinese Journal of Chemical Engineering, 2020, 28, 2214-2220.	3.5	9
34	CoS2 impregnated in mesoporous carbon hollow spheres as polysulfide trapper for highly stable Li-S batteries. Materials Letters, 2019, 254, 312-315.	2.6	8
35	Preparation and Characterization of Magnetic Microspheres with an Epoxy Group Coating and Their Applications for Lipase Immobilization. Journal of Macromolecular Science - Physics, 2014, 53, 1348-1363.	1.0	6
36	Mandelic acid chiral separation utilizing a two-phase partitioning bioreactor built by polysulfone microspheres and immobilized enzymes. Bioprocess and Biosystems Engineering, 2015, 38, 429-435.	3.4	4

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37	A stable liquidâ€“solid interface of a lithium metal anode enabled by micro-region meshing. Nanoscale, 2022, 14, 1195-1201.	5.6	4
38	Freestanding <scp> V ₅ O ₁₂ ÂÂ·Â6H ₂ Oâ€CNTs </scp> composite films as cathode for foldable aqueous zincâ€ion batteries. International Journal of Energy Research, 0, , .	4.5	3
39	Mg2+ pre-intercalated hydrated vanadium oxide as high-performance cathode for aqueous zinc-ion batteries. Modern Physics Letters B, 2022, 36, .	1.9	3
40	Environment-friendly synthesis of tin encapsulated within cotton-like carbon as anode materials for lithium-ion batteries. Modern Physics Letters B, 0, , .	1.9	0
41	Nanocomposites for binder-free Li-S electrodes. , 2022, , 99-119.		0