

Tao Wang

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,788
citations

331670

21
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

2280
citing authors

#	ARTICLE	IF	CITATIONS
1	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , 2019, 363, 723-727.	12.6	429
2	3D Holey Graphene/Polyacrylonitrile Sulfur Composite Architecture for High Loading Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100448.	19.5	131
3	Atomic-Scale Control of Silicon Expansion Space as Ultrastable Battery Anodes. <i>ACS Nano</i> , 2016, 10, 8243-8251.	14.6	128
4	Hierarchically Porous N-Doped Carbon Fibers as a Free-Standing Anode for High-Capacity Potassium-Based Dual-Ion Battery. <i>Advanced Energy Materials</i> , 2019, 9, 1901663.	19.5	128
5	Radial Pores in Nitrogen/Oxygen Dual-Doped Carbon Nanospheres Anode Boost High-Power and Ultrastable Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2107246.	14.9	112
6	An Ultrastable Nonaqueous Potassium-Ion Hybrid Capacitor. <i>Advanced Functional Materials</i> , 2020, 30, 2004247.	14.9	100
7	Bacteria-Derived Biological Carbon Building Robust Li-S Batteries. <i>Nano Letters</i> , 2019, 19, 4384-4390.	9.1	95
8	A hyperaccumulation pathway to three-dimensional hierarchical porous nanocomposites for highly robust high-power electrodes. <i>Nature Communications</i> , 2016, 7, 13432.	12.8	68
9	Large-scale production of silicon nanoparticles@graphene embedded in nanotubes as ultra-robust battery anodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4809-4817.	10.3	61
10	TiO ₂ quantum dots decorated multi-walled carbon nanotubes as the multifunctional separator for highly stable lithium sulfur batteries. <i>Electrochimica Acta</i> , 2018, 284, 314-320.	5.2	61
11	A Silicon Monoxide Lithium-Ion Battery Anode with Ultrahigh Areal Capacity. <i>Nano-Micro Letters</i> , 2022, 14, 50.	27.0	59
12	Nitrogen-doped carbon nanotubes as an anode for a highly robust potassium-ion hybrid capacitor. <i>Nanoscale Horizons</i> , 2020, 5, 1586-1595.	8.0	45
13	Nickel-iron layered double hydroxides and reduced graphene oxide composite with robust lithium ion adsorption ability for high-capacity energy storage systems. <i>Electrochimica Acta</i> , 2019, 296, 190-197.	5.2	42
14	Covalent Selenium Embedded in Hierarchical Carbon Nanofibers for Ultra-High Areal Capacity Li-Se Batteries. <i>IScience</i> , 2020, 23, 100919.	4.1	40
15	Dual-Carbon Electrode-Based High-Energy-Density Potassium-Ion Hybrid Capacitor. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8497-8506.	8.0	39
16	Ultra-Stable and High-Rate Lithium Ion Batteries Based on Metal-organic Framework-derived In ₂ O ₃ Nanocrystals/Hierarchically Porous Nitrogen-Doped Carbon Anode. <i>Energy and Environmental Materials</i> , 2020, 3, 177-185.	12.8	36
17	N/S co-doped carbon nanosheet bundles as high-capacity anode for potassium-ion battery. <i>Nano Research</i> , 2022, 15, 2040-2046.	10.4	30
18	Elastic Reduced Graphene Oxide Nanosheets Embedded in Germanium Nanofiber Matrix as Anode Material for High-Performance Li-Ion Battery. <i>Electrochimica Acta</i> , 2015, 186, 64-70.	5.2	26

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19	Double quantum dots decorated 3D graphene flowers for highly efficient photoelectrocatalytic hydrogen production. <i>Applied Surface Science</i> , 2017, 422, 528-535.	6.1	25
20	Covalent sulfur embedding in inherent N,P co-doped biological carbon for ultrastable and high rate lithium-sulfur batteries. <i>Nanoscale</i> , 2020, 12, 8991-8996.	5.6	25
21	Ultra-stable sodium ion battery cathode realized by Cu ₇ S ₄ nanoparticles. <i>Journal of Power Sources</i> , 2018, 399, 105-114.	7.8	24
22	Intercalation and covalent bonding strategies for constructing a stable cathode for high-energy density and long-cycling potassium-organic batteries. <i>Chemical Engineering Journal</i> , 2022, 431, 133215.	12.7	24
23	A High Capacity and Working Voltage Potassium-Based Dual Ion Batteries. <i>Energy and Environmental Materials</i> , 2021, 4, 413-420.	12.8	23
24	NiO and CrO ₃ double surface-decorate Ni nanofibers for hydrogen evolution reduction. <i>Materials Letters</i> , 2016, 182, 15-18.	2.6	16
25	Fast-Charging Nonaqueous Potassium-Ion Batteries Enabled by Rational Construction of Oxygen-Rich Porous Nanofiber Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50005-50016.	8.0	15
26	A germanium and zinc chalcogenide as an anode for a high-capacity and long cycle life lithium battery. <i>RSC Advances</i> , 2019, 9, 35045-35049.	3.6	6