

Fei Han

List of Publications by Year in descending order

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31
papers

2,240
citations

236925

25
h-index

414414

32
g-index

32
all docs

32
docs citations

32
times ranked

3289
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering microstructure toward split-free mesophase pitch-based carbon fibers. <i>Journal of Materials Science</i> , 2022, 57, 2411-2423.	3.7	18
2	Highly active Fe ₇ S ₈ encapsulated in N-doped hollow carbon nanofibers for high-rate sodium-ion batteries. <i>Journal of Energy Chemistry</i> , 2021, 53, 26-35.	12.9	59
3	Unraveling the Voltage Failure Mechanism in Metal Sulfide Anodes for Sodium Storage and Improving Their Long Cycle Life by Sulfur-Doped Carbon Protection. <i>Advanced Functional Materials</i> , 2021, 31, 2007266.	14.9	58
4	An AlCl ₃ coordinating interlayer spacing in microcrystalline graphite facilitates ultra-stable and high-performance sodium storage. <i>Nanoscale</i> , 2021, 13, 10468-10477.	5.6	9
5	Optimal microstructural design of pitch-derived soft carbon shell in yolk-shell silicon/carbon composite for superior lithium storage. <i>Electrochimica Acta</i> , 2021, 373, 137924.	5.2	32
6	Improving the lithium storage performance of micro-sized SiO particles by uniform carbon interphase encapsulation and suitable SiO ₂ buffer component. <i>Electrochimica Acta</i> , 2021, 385, 138431.	5.2	6
7	Enhanced active sulfur in soft carbon via synergistic doping effect for ultra-stable lithium-ion batteries. <i>Energy Storage Materials</i> , 2020, 24, 450-457.	18.0	46
8	Improving compactness and reaction kinetics of MoS ₂ @C anodes by introducing Fe ₉ S ₁₀ core for superior volumetric sodium/potassium storage. <i>Energy Storage Materials</i> , 2020, 24, 208-219.	18.0	140
9	Towards high-volumetric performance of Na/Li-ion batteries: a better anode material with molybdenum pentachloride-graphite intercalation compounds (MoCl ₅ -GICs). <i>Journal of Materials Chemistry A</i> , 2020, 8, 2430-2438.	10.3	40
10	Improved Electrochemical Performance of Sodium/Potassium-Ion Batteries in Ether-Based Electrolyte: Cases Study of MoS ₂ @C and Fe ₇ S ₈ @C Anodes. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000486.	3.7	53
11	Boosting the Potassium-Ion Storage Performance in Soft Carbon Anodes by the Synergistic Effect of Optimized Molten Salt Medium and N/S Dual-Doping. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20838-20848.	8.0	88
12	Tuning solar absorption spectra via carbon quantum dots/VAE composite layer and efficiency enhancement for crystalline Si solar module. <i>Progress in Photovoltaics: Research and Applications</i> , 2019, 27, 283-289.	8.1	15
13	Improving the cycle stability of FeCl ₃ -graphite intercalation compounds by polar Fe ₂ O ₃ trapping in lithium-ion batteries. <i>Nano Research</i> , 2019, 12, 1836-1844.	10.4	35
14	Fabrication of strong internal electric field ZnS/Fe ₉ S ₁₀ heterostructures for highly efficient sodium ion storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11771-11781.	10.3	83
15	FeCl ₃ Intercalated Microcrystalline Graphite Enables High Volumetric Capacity and Good Cycle Stability for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019, 7, 1801091.	3.8	20
16	Transformation of sludge Si to nano-Si/SiO _x structure by oxygen inward diffusion as precursor for high performance anodes in lithium ion batteries. <i>Nanoscale Research Letters</i> , 2018, 13, 134.	5.7	13
17	Strong anchoring effect of ferric chloride-graphite intercalation compounds (FeCl ₃ -GICs) with tailored epoxy groups for high-capacity and stable lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17982-17993.	10.3	35
18	Dual-carbon phase-protective cobalt sulfide nanoparticles with cable-type and mesoporous nanostructure for enhanced cycling stability in sodium and lithium ion batteries. <i>Carbon</i> , 2017, 118, 731-742.	10.3	82

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19	In situ formation of ultrafine CoS ₂ nanoparticles uniformly encapsulated in N/S-doped carbon polyhedron for advanced sodium-ion batteries. RSC Advances, 2017, 7, 30699-30706.	3.6	60
20	A Dual-Phase-Modified and Nanostructured Nickel Sulfide Anode for Sodium-Ion Batteries. Energy Technology, 2017, 5, 580-587.	3.8	7
21	Template-free formation of carbon nanotube-supported cobalt sulfide@carbon hollow nanoparticles for stable and fast sodium ion storage. Journal of Power Sources, 2017, 339, 41-50.	7.8	69
22	Well-dispersed and porous FeP@C nanoplates with stable and ultrafast lithium storage performance through conversion reaction mechanism. Journal of Materials Chemistry A, 2016, 4, 12781-12789.	10.3	143
23	Improving the Specific Capacity and Cyclability of Sodium-Ion Batteries by Engineering a Dual-Phase-Modified Amorphous and Mesoporous Iron Phosphide. ChemElectroChem, 2016, 3, 1054-1062.	3.4	70
24	In Situ Electrochemical Generation of Mesostructured Cu ₂ S/C Composite for Enhanced Lithium Storage: Mechanism and Material Properties. ChemElectroChem, 2014, 1, 733-740.	3.4	92
25	Selective Formation of Carbon-Coated, Metastable Amorphous ZnSnO ₃ Nanocubes Containing Mesopores for Use as High-Capacity Lithium-Ion Battery. Small, 2014, 10, 2637-2644.	10.0	114
26	Rationally designed carbon-coated Fe ₃ O ₄ coaxial nanotubes with hierarchical porosity as high-rate anodes for lithium ion batteries. Nano Research, 2014, 7, 1706-1717.	10.4	161
27	Combination of a SnO ₂ @C hybrid anode and a tubular mesoporous carbon cathode in a high energy density non-aqueous lithium ion capacitor: preparation and characterisation. Journal of Materials Chemistry A, 2014, 2, 6549.	10.3	100
28	Nanoengineered Polypyrrole-Coated Fe ₂ O ₃ @C Multifunctional Composites with an Improved Cycle Stability as Lithium-Ion Anodes. Advanced Functional Materials, 2013, 23, 1692-1700.	14.9	290
29	Fabrication of superior-performance SnO ₂ @C composites for lithium-ion anodes using tubular mesoporous carbon with thin carbon walls and high pore volume. Journal of Materials Chemistry, 2012, 22, 9645.	6.7	186
30	Controlled hydrothermal synthesis of 1D nanocarbons by surfactant-templated assembly for use as anodes for rechargeable lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 17049.	6.7	46
31	Monolithic Carbons with Tailored Crystallinity and Porous Structure as Lithium-Ion Anodes for Fundamental Understanding Their Rate Performance and Cycle Stability. Journal of Physical Chemistry C, 2012, 116, 10303-10311.	3.1	38