

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

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all docs

32
docs citations

32
times ranked

3289
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoengineered Polypyrrole@Coated Fe ₂ O ₃ @C Multifunctional Composites with an Improved Cycle Stability as Lithium-Ion Anodes. <i>Advanced Functional Materials</i> , 2013, 23, 1692-1700.	14.9	290
2	Fabrication of superior-performance SnO ₂ @C composites for lithium-ion anodes using tubular mesoporous carbon with thin carbon walls and high pore volume. <i>Journal of Materials Chemistry</i> , 2012, 22, 9645.	6.7	186
3	Rationally designed carbon-coated Fe ₃ O ₄ coaxial nanotubes with hierarchical porosity as high-rate anodes for lithium ion batteries. <i>Nano Research</i> , 2014, 7, 1706-1717.	10.4	161
4	Well-dispersed and porous FeP@C nanoplates with stable and ultrafast lithium storage performance through conversion reaction mechanism. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12781-12789.	10.3	143
5	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
6	Selective Formation of Carbon-Coated, Metastable Amorphous ZnSnO ₃ Nanocubes Containing Mesopores for Use as High-Capacity Lithium-Ion Battery. <i>Small</i> , 2014, 10, 2637-2644.	10.0	114
7	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. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6549.	10.3	100
8	In Situ Electrochemical Generation of Mesostructured Cu ₂ S/C Composite for Enhanced Lithium Storage: Mechanism and Material Properties. <i>ChemElectroChem</i> , 2014, 1, 733-740.	3.4	92
9	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
10	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
11	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
12	Improving the Specific Capacity and Cyclability of Sodium-Ion Batteries by Engineering a Dual-Carbon Phase-Modified Amorphous and Mesoporous Iron Phosphide. <i>ChemElectroChem</i> , 2016, 3, 1054-1062.	3.4	70
13	Template-free formation of carbon nanotube-supported cobalt sulfide@carbon hollow nanoparticles for stable and fast sodium ion storage. <i>Journal of Power Sources</i> , 2017, 339, 41-50.	7.8	69
14	In situ formation of ultrafine CoS ₂ nanoparticles uniformly encapsulated in N/S-doped carbon polyhedron for advanced sodium-ion batteries. <i>RSC Advances</i> , 2017, 7, 30699-30706.	3.6	60
15	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
16	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
17	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
18	Controlled hydrothermal synthesis of 1D nanocarbons by surfactant-templated assembly for use as anodes for rechargeable lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 17049.	6.7	46

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Monolithic Carbons with Tailored Crystallinity and Porous Structure as Lithium-Ion Anodes for Fundamental Understanding Their Rate Performance and Cycle Stability. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10303-10311.	3.1	38
22	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
23	Improving the cycle stability of FeCl_3 -graphite intercalation compounds by polar Fe_2O_3 trapping in lithium-ion batteries. <i>Nano Research</i> , 2019, 12, 1836-1844.	10.4	35
24	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
25	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
26	Engineering microstructure toward split-free mesophase pitch-based carbon fibers. <i>Journal of Materials Science</i> , 2022, 57, 2411-2423.	3.7	18
27	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
28	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
29	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
30	A Dual-Phase Modified and Nanostructured Nickel Sulfide Anode for Sodium-Ion Batteries. <i>Energy Technology</i> , 2017, 5, 580-587.	3.8	7
31	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