

Fang Dai

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

3,882
citations

279798

23
h-index

454955

30
g-index

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all docs

30
docs citations

30
times ranked

6368
citing authors

#	ARTICLE	IF	CITATIONS
1	Opportunities and Challenges of High-Energy Lithium Metal Batteries for Electric Vehicle Applications. <i>ACS Energy Letters</i> , 2020, 5, 3140-3151.	17.4	196
2	Minimized Volume Expansion in Hierarchical Porous Silicon upon Lithiation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13257-13263.	8.0	51
3	Robust Metallic Lithium Anode Protection by the Molecular Layer Deposition Technique. <i>Small Methods</i> , 2018, 2, 1700417.	8.6	84
4	Hierarchical electrode architectures for high energy lithium-chalcogen rechargeable batteries. <i>Nano Energy</i> , 2018, 51, 668-679.	16.0	13
5	Functional Organosulfide Electrolyte Promotes an Alternate Reaction Pathway to Achieve High Performance in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4231-4235.	13.8	149
6	Activated Carbon from Biomass Transfer for High-Energy Density Lithium-Ion Supercapacitors. <i>Advanced Energy Materials</i> , 2016, 6, 1600802.	19.5	229
7	Room-Temperature Synthesis of Mesoporous Sn/SnO ₂ Composite as Anode for Sodium-Ion Batteries. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1950-1954.	2.0	23
8	Functional Organosulfide Electrolyte Promotes an Alternate Reaction Pathway to Achieve High Performance in Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2016, 128, 4303-4307.	2.0	35
9	Self-Templated Synthesis of Mesoporous Carbon from Carbon Tetrachloride Precursor for Supercapacitor Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6779-6783.	8.0	75
10	Nitrogen-doped activated carbon for a high energy hybrid supercapacitor. <i>Energy and Environmental Science</i> , 2016, 9, 102-106.	30.8	910
11	Introduction to Electrochemical Energy Storage and Conversion. <i>Electrochemical Energy Storage and Conversion</i> , 2015, , 3-32.	0.0	1
12	Rationally Designed n-n Heterojunction with Highly Efficient Solar Hydrogen Evolution. <i>ChemSusChem</i> , 2015, 8, 1218-1225.	6.8	87
13	Inward lithium-ion breathing of hierarchically porous silicon anodes. <i>Nature Communications</i> , 2015, 6, 8844.	12.8	217
14	Homogenously hexagonal prismatic AgBiS ₂ nanocrystals: controlled synthesis and application in quantum dot-sensitized solar cells. <i>CrystEngComm</i> , 2015, 17, 1902-1905.	2.6	34
15	Water Soluble CuInSe ₂ Nanoplates: Controlled Synthesis, Photoelectric Response and Electrocatalytic Reduction of Polysulfides. <i>ChemNanoMat</i> , 2015, 1, 52-57.	2.8	5
16	A Free-Standing and Ultralong-Life Lithium-Selenium Battery Cathode Enabled by 3D Mesoporous Carbon/Graphene Hierarchical Architecture. <i>Advanced Functional Materials</i> , 2015, 25, 455-463.	14.9	186
17	Bottom-up synthesis of high surface area mesoporous crystalline silicon and evaluation of its hydrogen evolution performance. <i>Nature Communications</i> , 2014, 5, 3605.	12.8	212
18	Titanium nitride coating to enhance the performance of silicon nanoparticles as a lithium-ion battery anode. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10375-10378.	10.3	79

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19	A study of a fluorine substituted phenyl based complex as a 3 V electrolyte for Mg batteries. Journal of Materials Chemistry A, 2014, 2, 15488-15494.	10.3	17
20	Flexible self-standing graphene@Se@CNT composite film as a binder-free cathode for rechargeable Li-Se batteries. Journal of Power Sources, 2014, 263, 85-89.	7.8	120
21	Bis(2,2,2-trifluoroethyl) Ether As an Electrolyte Co-solvent for Mitigating Self-Discharge in Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2014, 6, 8006-8010.	8.0	161
22	Improved electrolyte and its application in LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ @Graphite full cells. Journal of Power Sources, 2014, 268, 37-44.	7.8	16
23	Dual conductive network-enabled graphene/Si-C composite anode with high areal capacity for lithium-ion batteries. Nano Energy, 2014, 6, 211-218.	16.0	155
24	Micro-sized Si-C Composite with Interconnected Nanoscale Building Blocks as High-Performance Anodes for Practical Application in Lithium-Ion Batteries. Advanced Energy Materials, 2013, 3, 295-300.	19.5	412
25	Improved rate capability of Si-C composite anodes by boron doping for lithium-ion batteries. Electrochemistry Communications, 2013, 36, 29-32.	4.7	71
26	Exceptional electrochemical performance of rechargeable Li-S batteries with a polysulfide-containing electrolyte. RSC Advances, 2013, 3, 3540.	3.6	87
27	The Direct Oxidative Addition of O ₂ to a Mononuclear Cr(I) Complex Is Spin Forbidden. Journal of the American Chemical Society, 2013, 135, 16774-16776.	13.7	32
28	Influence of Silicon Nanoscale Building Blocks Size and Carbon Coating on the Performance of Micro-sized Si-C Composite Li-ion Anodes. Advanced Energy Materials, 2013, 3, 1507-1515.	19.5	169
29	Amorphous Si/SiO _x /SiO ₂ nanocomposites via facile scalable synthesis as anode materials for Li-ion batteries with long cycling life. RSC Advances, 2012, 2, 12710.	3.6	47