

Kun Feng

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

2,329
citations

393982

19
h-index

580395

25
g-index

25
all docs

25
docs citations

25
times ranked

4384
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon-Based Anodes for Lithium-Ion Batteries: From Fundamentals to Practical Applications. <i>Small</i> , 2018, 14, 1702737.	5.2	650
2	Advanced Extremely Durable 3D Bifunctional Air Electrodes for Rechargeable Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1301389.	10.2	258
3	Controllable Urchin-Like NiCo ₂ S ₄ Microsphere Synergized with Sulfur-Doped Graphene as Bifunctional Catalyst for Superior Rechargeable Zn-Air Battery. <i>Advanced Functional Materials</i> , 2018, 28, 1706675.	7.8	203
4	Implementing an in-situ carbon network in Si/reduced graphene oxide for high performance lithium-ion battery anodes. <i>Nano Energy</i> , 2016, 19, 187-197.	8.2	148
5	Paper-based all-solid-state flexible micro-supercapacitors with ultra-high rate and rapid frequency response capabilities. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3754-3764.	5.2	136
6	Carbon-Coated Silicon Nanowires on Carbon Fabric as Self-Supported Electrodes for Flexible Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9551-9558.	4.0	101
7	Gas Pickering Emulsion Templated Hollow Carbon for High Rate Performance Lithium Sulfur Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 8408-8417.	7.8	98
8	Multiscale modeling of lithium-ion battery electrodes based on nano-scale X-ray computed tomography. <i>Journal of Power Sources</i> , 2016, 307, 496-509.	4.0	92
9	Nitrogen-doped carbon nanocones encapsulating with nickel-cobalt mixed phosphides for enhanced hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16568-16572.	5.2	90
10	A Lithium-Sulfur Battery using a 2D Current Collector Architecture with a Large-Sized Sulfur Host Operated under High Areal Loading and Low E/S Ratio. <i>Advanced Materials</i> , 2018, 30, e1804271.	11.1	74
11	Graphene wrapped silicon nanocomposites for enhanced electrochemical performance in lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 130, 127-134.	2.6	66
12	Advanced Li-Ion Hybrid Supercapacitors Based on 3D Graphene-Foam Composites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25941-25953.	4.0	66
13	Highly Oriented Graphene Sponge Electrode for Ultra High Energy Density Lithium Ion Hybrid Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25297-25305.	4.0	59
14	Building sponge-like robust architectures of CNT-graphene-Si composites with enhanced rate and cycling performance for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3962-3967.	5.2	51
15	Morphologically Controlled Bioinspired Dopamine-Polypyrrole Nanostructures with Tunable Electrical Properties. <i>Advanced Electronic Materials</i> , 2015, 1, 1500205.	2.6	48
16	Self-Supported Cobalt Nickel Nitride Nanowires Electrode for Overall Electrochemical Water Splitting. <i>Energy Technology</i> , 2017, 5, 1908-1911.	1.8	47
17	Nano-particle size effect on the performance of Li ₄ Ti ₅ O ₁₂ spinel. <i>Electrochimica Acta</i> , 2016, 196, 33-40.	2.6	37
18	Representative volume element model of lithium-ion battery electrodes based on X-ray nano-tomography. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 281-293.	1.5	33

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19	Micron-sized secondary Si/C composite with in situ crosslinked polymeric binder for high-energy-density lithium-ion battery anode. <i>Electrochimica Acta</i> , 2019, 309, 157-165.	2.6	29
20	Synchrotron X-ray nano computed tomography based simulation of stress evolution in LiMn ₂ O ₄ electrodes. <i>Electrochimica Acta</i> , 2017, 247, 1103-1116.	2.6	19
21	Morphological and Electrochemical Characterization of Nanostructured Li ₄ Ti ₅ O ₁₂ Electrodes Using Multiple Imaging Mode Synchrotron X-ray Computed Tomography. <i>Journal of the Electrochemical Society</i> , 2017, 164, A2861-A2871.	1.3	14
22	Highly Efficient Removal of Suspended Solid Pollutants from Wastewater by Magnetic Fe ₃ O ₄ @Graphene Oxides Nanocomposite. <i>ChemistrySelect</i> , 2018, 3, 11643-11648.	0.7	4
23	Conformal formation of Carbon-TiOX matrix encapsulating silicon for high-performance lithium-ion battery anode. <i>Journal of Power Sources</i> , 2018, 399, 98-104.	4.0	4
24	Batteries: Gas Pickering Emulsion Templated Hollow Carbon for High Rate Performance Lithium Sulfur Batteries (<i>Adv. Funct. Mater.</i> 46/2016). <i>Advanced Functional Materials</i> , 2016, 26, 8563-8563.	7.8	1