

Haijian Huang

List of Publications by Year in descending order

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papers

1,552
citations

331259

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times ranked

2291
citing authors

#	ARTICLE	IF	CITATIONS
1	Exfoliating spent cathode materials with robust interlayer interactions into atomic-thin nanosheets for boosting the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3359-3372.	5.2	11
2	Ca/Ni Codoping Enables the Integration of High-Rate and High-Capacity Zn-Ion Storage Performances for Layered Hydrated Vanadate. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 4212-4221.	1.8	4
3	Beyond conventional sodium-ion storage mechanisms: a combinational intercalation/conversion reaction mechanism in Ni-ion modified hydrated vanadate for high-rate sodium-ion storage. <i>Energy Storage Materials</i> , 2022, 47, 579-590.	9.5	17
4	Coupling High Rate Capability and High Capacity in an Intercalation-Type Sodium-Ion Hybrid Capacitor Anode Material of Hydrated Vanadate via Interlayer-Cation Engineering. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17547-17559.	4.0	4
5	PVP-bridged LiAlO_2 nanolayer on $\text{Li}_{1.2}\text{Ni}_{0.182}\text{Co}_{0.08}\text{Mn}_{0.538}\text{O}_2$ cathode materials for improving the rate capability and cycling stability. <i>Chemical Engineering Science</i> , 2021, 229, 116126.	1.9	25
6	Electric field driven de-lithiation: A strategy towards comprehensive and efficient recycling of electrode materials from spent lithium ion batteries. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119634.	10.8	74
7	Recent Advances of Mesoscale-Structured Cathode Materials for High Energy Density Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 2962-2975.	2.5	10
8	Nickel nanoparticles modified MnO nanosheet arrays for high-performance supercapacitor with long-lasting and sustainable capacitance increase. <i>Electrochimica Acta</i> , 2021, 383, 138353.	2.6	6
9	Fast and highly reversible Na^+ intercalation/extraction in Zn/Mg dual-doped $\text{P}_2\text{-Na}_{0.67}\text{MnO}_2$ cathode material for high-performance Na-ion batteries. <i>Nano Research</i> , 2021, 14, 3531-3537.	5.8	35
10	Engineering superhydrophilic/superaerophobic hierarchical structures of Co-CH@NiFe-LDH/NF to boost the oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 422, 130123.	6.6	62
11	Construction of a hetero-epitaxial nanostructure at the interface of Li-rich cathode materials to boost their rate capability and cycling performances. <i>Nanoscale</i> , 2021, 13, 20488-20497.	2.8	9
12	SnS/N-Doped carbon composites with enhanced Li^+ storage and lifetime by controlled hierarchical submicron- and nano-structuring. <i>CrystEngComm</i> , 2020, 22, 1547-1554.	1.3	14
13	A Micromolding Method for Transparent and Flexible Thin-Film Supercapacitors and Hybrid Supercapacitors. <i>Advanced Functional Materials</i> , 2020, 30, 2004410.	7.8	70
14	Al-doped walnut-shell-like $\text{P}_2\text{-type Na}_{2/3}\text{Ni}_{1/3}\text{Co}_{(1/3-x)}\text{Mn}_{1/3}\text{Al}_x\text{O}_2$ as advanced sodium ion battery cathode materials with enhanced rate and cycling performance. <i>Electrochimica Acta</i> , 2020, 349, 136347.	2.6	12
15	Structurally disordered Ta_2O_5 aerogel for high-rate and highly stable Li-ion and Na-ion storage through surface redox pseudocapacitance. <i>Electrochimica Acta</i> , 2019, 321, 134645.	2.6	27
16	Layered metal vanadates with different interlayer cations for high-rate Na-ion storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16109-16116.	5.2	26
17	Fully Integrated Design of a Stretchable Solid-State Lithium-Ion Full Battery. <i>Advanced Materials</i> , 2019, 31, e1904648.	11.1	102
18	Layered cobalt hydroxalcite as an advanced lithium-ion anode material with high capacity and rate capability. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21264-21269.	5.2	7

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19	Understanding the Charge Storage Mechanism to Achieve High Capacity and Fast Ion Storage in Sodium-Ion Capacitor Anodes by Using Electrospun Nitrogen-Doped Carbon Fibers. <i>Advanced Functional Materials</i> , 2019, 29, 1902858.	7.8	79
20	Towards fast-charging technologies in Li ⁺ /Na ⁺ storage: from the perspectives of pseudocapacitive materials and non-aqueous hybrid capacitors. <i>Nanoscale</i> , 2019, 11, 19225-19240.	2.8	44
21	An advanced cathode material for high-power Li-ion storage full cells with a long lifespan. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22444-22452.	5.2	1
22	Hydrogel-derived foams of nitrogen-doped carbon loaded with Sn nanodots for high-mass-loading Na-ion storage. <i>Energy Storage Materials</i> , 2019, 16, 519-526.	9.5	47
23	Nano-Sized Structurally Disordered Metal Oxide Composite Aerogels as High-Power Anodes in Hybrid Supercapacitors. <i>ACS Nano</i> , 2018, 12, 2753-2763.	7.3	129
24	Fast Na ⁺ Ion Intercalation in Zinc Vanadate for High-Performance Na ⁺ Ion Hybrid Capacitor. <i>Advanced Energy Materials</i> , 2018, 8, 1802800.	10.2	72
25	Preparation of graphene supported porous Si@C ternary composites and their electrochemical performance as high capacity anode materials for Li-ion batteries. <i>Ceramics International</i> , 2015, 41, 8533-8540.	2.3	28
26	Silver-modified hollow ZnSnO ₃ boxes as high capacity anode materials for Li-ion batteries. <i>Materials Letters</i> , 2015, 149, 33-36.	1.3	25
27	Hydrothermal synthesis of flower-like Zn ₂ SnO ₄ composites and their performance as anode materials for lithium-ion batteries. <i>Ceramics International</i> , 2014, 40, 8021-8025.	2.3	33
28	Hollow Zn ₂ SnO ₄ boxes wrapped with flexible graphene as anode materials for lithium batteries. <i>Electrochimica Acta</i> , 2014, 120, 128-132.	2.6	38
29	Synthesis and microwave absorption enhancement of graphene@Fe ₃ O ₄ @SiO ₂ @NiO nanosheet hierarchical structures. <i>Nanoscale</i> , 2014, 6, 3157-3164.	2.8	395
30	Graphene supported Zn ₂ SnO ₄ nanoflowers with superior electrochemical performance as lithium-ion battery anode. <i>Ceramics International</i> , 2014, 40, 15183-15190.	2.3	13
31	Preparation of hollow Zn ₂ SnO ₄ boxes@C/graphene ternary composites with a triple buffering structure and their electrochemical performance for lithium-ion batteries. <i>Electrochimica Acta</i> , 2014, 147, 201-208.	2.6	42
32	N-doped graphene@polyaniline nanorod arrays hierarchical structures: Synthesis and enhanced electromagnetic absorption properties. <i>Materials Letters</i> , 2014, 124, 89-92.	1.3	58
33	Facile synthesis and performance of polypyrrole-coated hollow Zn ₂ SnO ₄ boxes as anode materials for lithium-ion batteries. <i>Ceramics International</i> , 2014, 40, 2359-2364.	2.3	32
34	Towards stable and high-capacity anode materials for sodium-ion batteries by embedding of Sb/Sn nanoparticles into electrospun mesoporous carbon fibers. <i>Electrochemical Science Advances</i> , 0, , e2100010.	1.2	1