

# Haijian Huang

## List of Publications by Year in descending order

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34  
papers

1,552  
citations

331259

21  
h-index

395343

33  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2291  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and microwave absorption enhancement of graphene@Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @NiO nanosheet hierarchical structures. <i>Nanoscale</i> , 2014, 6, 3157-3164.	2.8	395
2	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
3	Fully Integrated Design of a Stretchable Solid-State Lithium-Ion Full Battery. <i>Advanced Materials</i> , 2019, 31, e1904648.	11.1	102
4	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
5	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
6	Fast Na <sup>+</sup> Intercalation in Zinc Vanadate for High-Performance Na <sup>+</sup> Hybrid Capacitor. <i>Advanced Energy Materials</i> , 2018, 8, 1802800.	10.2	72
7	A Micromolding Method for Transparent and Flexible Thin-Film Supercapacitors and Hybrid Supercapacitors. <i>Advanced Functional Materials</i> , 2020, 30, 2004410.	7.8	70
8	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
9	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
10	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
11	Towards fast-charging technologies in Li <sup>+</sup> /Na <sup>+</sup> storage: from the perspectives of pseudocapacitive materials and non-aqueous hybrid capacitors. <i>Nanoscale</i> , 2019, 11, 19225-19240.	2.8	44
12	Preparation of hollow Zn <sub>2</sub> SnO <sub>4</sub> 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
13	Hollow Zn <sub>2</sub> SnO <sub>4</sub> boxes wrapped with flexible graphene as anode materials for lithium batteries. <i>Electrochimica Acta</i> , 2014, 120, 128-132.	2.6	38
14	Fast and highly reversible Na <sup>+</sup> intercalation/extraction in Zn/Mg dual-doped P2-Na <sub>0.67</sub> MnO <sub>2</sub> cathode material for high-performance Na-ion batteries. <i>Nano Research</i> , 2021, 14, 3531-3537.	5.8	35
15	Hydrothermal synthesis of flower-like Zn <sub>2</sub> SnO <sub>4</sub> composites and their performance as anode materials for lithium-ion batteries. <i>Ceramics International</i> , 2014, 40, 8021-8025.	2.3	33
16	Facile synthesis and performance of polypyrrole-coated hollow Zn <sub>2</sub> SnO <sub>4</sub> boxes as anode materials for lithium-ion batteries. <i>Ceramics International</i> , 2014, 40, 2359-2364.	2.3	32
17	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
18	Structurally disordered Ta <sub>2</sub> O <sub>5</sub> 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

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19	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
20	Silver-modified hollow ZnSnO <sub>3</sub> boxes as high capacity anode materials for Li-ion batteries. <i>Materials Letters</i> , 2015, 149, 33-36.	1.3	25
21	PVP-bridged $\delta$ -LiAlO <sub>2</sub> nanolayer on Li <sub>1.2</sub> Ni <sub>0.182</sub> Co <sub>0.08</sub> Mn <sub>0.538</sub> O <sub>2</sub> cathode materials for improving the rate capability and cycling stability. <i>Chemical Engineering Science</i> , 2021, 229, 116126.	1.9	25
22	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
23	SnS/N-Doped carbon composites with enhanced Li <sup>+</sup> storage and lifetime by controlled hierarchical submicron- and nano-structuring. <i>CrystEngComm</i> , 2020, 22, 1547-1554.	1.3	14
24	Graphene supported Zn <sub>2</sub> SnO <sub>4</sub> nanoflowers with superior electrochemical performance as lithium-ion battery anode. <i>Ceramics International</i> , 2014, 40, 15183-15190.	2.3	13
25	Al-doped walnut-shell-like P2-type Na <sub>2/3</sub> Ni <sub>1/3</sub> Co <sub>(1/3-x)</sub> Mn <sub>1/3</sub> Al <sub>x</sub> O <sub>2</sub> as advanced sodium ion battery cathode materials with enhanced rate and cycling performance. <i>Electrochimica Acta</i> , 2020, 349, 136347.	2.6	12
26	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
27	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
28	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
29	Layered cobalt hydroxalite 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
30	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
31	Ca/Ni Codoping Enables the Integration of High-Rate and High-Capacity Zn-Ion Storage Performances for Layered Hydrated Vanadate. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 4212-4221.	1.8	4
32	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 &amp; Interfaces</i> , 2022, 14, 17547-17559.	4.0	4
33	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
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