

# Zhen Xu

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

2,168  
citations

304368

22  
h-index

476904

29  
g-index

31  
all docs

31  
docs citations

31  
times ranked

2701  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene in Macroscopic Order: Liquid Crystals and Wet-Spun Fibers. <i>Accounts of Chemical Research</i> , 2014, 47, 1267-1276.	7.6	295
2	A Defect-Free Principle for Advanced Graphene Cathode of Aluminum-Ion Battery. <i>Advanced Materials</i> , 2017, 29, 1605958.	11.1	280
3	Hard-Soft Carbon Composite Anodes with Synergistic Sodium Storage Performance. <i>Advanced Functional Materials</i> , 2019, 29, 1901072.	7.8	191
4	The rational design of biomass-derived carbon materials towards next-generation energy storage: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110308.	8.2	141
5	Hard carbons for sodium-ion batteries and beyond. <i>Progress in Energy</i> , 2020, 2, 042002.	4.6	130
6	Electrospun Nanofibers-Based Face Masks. <i>Advanced Fiber Materials</i> , 2020, 2, 161-166.	7.9	108
7	Critical insight: challenges and requirements of fibre electrodes for wearable electrochemical energy storage. <i>Energy and Environmental Science</i> , 2019, 12, 2148-2160.	15.6	104
8	Unveiling Polyindole: Freestanding As-electrospun Polyindole Nanofibers and Polyindole/Carbon Nanotubes Composites as Enhanced Electrodes for Flexible All-solid-state Supercapacitors. <i>Electrochimica Acta</i> , 2017, 247, 400-409.	2.6	76
9	All-Cellulose-Based Quasi-Solid-State Sodium-Ion Hybrid Capacitors Enabled by Structural Hierarchy. <i>Advanced Functional Materials</i> , 2019, 29, 1903895.	7.8	75
10	Homogenous metallic deposition regulated by defect-rich skeletons for sodium metal batteries. <i>Energy and Environmental Science</i> , 2021, 14, 6381-6393.	15.6	70
11	Unveiling the role of hydrothermal carbon dots as anodes in sodium-ion batteries with ultrahigh initial coulombic efficiency. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27567-27575.	5.2	69
12	Ice-Templated, Sustainable Carbon Aerogels with Hierarchically Tailored Channels for Sodium and Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	67
13	The Role of Hydrothermal Carbonization in Sustainable Sodium-Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	61
14	Screening Heteroatom Configurations for Reversible Sloping Capacity Promises High-Power Na-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	58
15	Mechanisms and Applications of Steady-State Photoluminescence Spectroscopy in Two-Dimensional Transition-Metal Dichalcogenides. <i>ACS Nano</i> , 2020, 14, 14579-14604.	7.3	56
16	Surface Self-Assembly of Functional Electroactive Nanofibers on Textile Yarns as a Facile Approach toward Super Flexible Energy Storage. <i>ACS Applied Energy Materials</i> , 2018, 1, 377-386.	2.5	47
17	Disordered carbon anodes for Na-ion batteries—quo vadis?. <i>Science China Chemistry</i> , 2021, 64, 1679-1692.	4.2	44
18	Multi-scale uniform Li regulation triggered by tunable electric field distribution on oxygen-functionalized porous framework for flexible Li-S full batteries. <i>Energy Storage Materials</i> , 2021, 42, 68-77.	9.5	41

#	ARTICLE	IF	CITATIONS
19	Iron, Nitrogen Co-Doped Carbon Spheres as Low Cost, Scalable Electrocatalysts for the Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2102974.	7.8	35
20	Cellulose nanocrystal-polyetherimide hybrid nanofibrous interleaves for enhanced interlaminar fracture toughness of carbon fibre/epoxy composites. <i>Composites Science and Technology</i> , 2019, 182, 107744.	3.8	34
21	Toward Emerging Sodium-Based Energy Storage Technologies: From Performance to Sustainability. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	33
22	Techniques enabling inorganic materials into wearable fiber/yarn and flexible lithium-ion batteries. <i>Energy Storage Materials</i> , 2021, 43, 62-84.	9.5	25
23	Perovskite solar cell-hybrid devices: thermoelectrically, electrochemically, and piezoelectrically connected power packs. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26661-26692.	5.2	24
24	Screening Heteroatom Configurations for Reversible Sloping Capacity Promises High-Power Na-Ion Batteries. <i>Angewandte Chemie</i> , 0, , .	1.6	23
25	Strategies for High Energy Density Dual-Ion Batteries Using Carbon-Based Cathodes. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100074.	2.8	21
26	Carbon Composite Anodes with Tunable Microstructures for Potassium-Ion Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 663-670.	2.4	16
27	Achieving high initial Coulombic efficiency for competent Na storage by microstructure tailoring from chiral nematic nanocrystalline cellulose. , 2022, 4, 914-923.		13
28	Homogeneous electric field and Li <sup>+</sup> flux regulation in three-dimensional nanofibrous composite framework for ultra-long-life lithium metal anode. <i>Journal of Colloid and Interface Science</i> , 2022, 614, 138-146.	5.0	11
29	A life cycle assessment of hard carbon anodes for sodium-ion batteries. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200340.	1.6	10
30	A Comparative Techno-Economic and Lifecycle Analysis of Biomass-Derived Anode Materials for Lithium- and Sodium-Ion Batteries. <i>Advanced Sustainable Systems</i> , 2022, 6, .	2.7	6
31	Sodium-Ion Batteries: Hard-Soft Carbon Composite Anodes with Synergistic Sodium Storage Performance ( <i>Adv. Funct. Mater.</i> 24/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970164.	7.8	4