

Xiaocong Tian

List of Publications by Year in descending order

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45
papers

3,798
citations

185998
28
h-index

233125
45
g-index

45
all docs

45
docs citations

45
times ranked

5934
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergistic interaction between redox-active electrolyte and binder-free functionalized carbon for ultrahigh supercapacitor performance. <i>Nature Communications</i> , 2013, 4, 2923.	5.8	623
2	Nanowire Electrodes for Electrochemical Energy Storage Devices. <i>Chemical Reviews</i> , 2014, 114, 11828-11862.	23.0	617
3	Emerging 3D-Printed Electrochemical Energy Storage Devices: A Critical Review. <i>Advanced Energy Materials</i> , 2017, 7, 1700127.	10.2	300
4	Nanoscroll Buffered Hybrid Nanostructural VO ₂ (B) Cathodes for High-Rate and Long-Life Lithium Storage. <i>Advanced Materials</i> , 2013, 25, 2969-2973.	11.1	207
5	Hydrated vanadium pentoxide with superior sodium storage capacity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8070-8075.	5.2	190
6	Nanowire Templated Semihollow Bicontinuous Graphene Scrolls: Designed Construction, Mechanism, and Enhanced Energy Storage Performance. <i>Journal of the American Chemical Society</i> , 2013, 135, 18176-18182.	6.6	187
7	Carbon-MEMS-Based Alternating Stacked MoS ₂ @rGO-CNT Micro-Supercapacitor with High Capacitance and Energy Density. <i>Small</i> , 2017, 13, 1700639.	5.2	132
8	Biomass chitosan derived cobalt/nitrogen doped carbon nanotubes for the electrocatalytic oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5740-5745.	5.2	113
9	Capacitance and voltage matching between MnO ₂ nanoflake cathode and Fe ₂ O ₃ nanoparticle anode for high-performance asymmetric micro-supercapacitors. <i>Nano Research</i> , 2017, 10, 2471-2481.	5.8	97
10	Advances and challenges of nanostructured electrodes for Li-Se batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10110-10126.	5.2	96
11	Ultrathin pre-lithiated V ₆ O ₁₃ nanosheet cathodes with enhanced electrical transport and cyclability. <i>Journal of Power Sources</i> , 2014, 255, 235-241.	4.0	78
12	Improved conductivity and capacitance of interdigital carbon microelectrodes through integration with carbon nanotubes for micro-supercapacitors. <i>Nano Research</i> , 2016, 9, 2510-2519.	5.8	73
13	Single-Nanowire Electrochemical Probe Detection for Internally Optimized Mechanism of Porous Graphene in Electrochemical Devices. <i>Nano Letters</i> , 2016, 16, 1523-1529.	4.5	72
14	Hierarchical Carbon Decorated Li ₃ V ₂ (PO ₄) ₃ as a Bicontinuous Cathode with High-Rate Capability and Broad Temperature Adaptability. <i>Advanced Energy Materials</i> , 2014, 4, 1400107.	10.2	70
15	Arbitrary Shape Engineerable Spiral Micropseudocapacitors with Ultrahigh Energy and Power Densities. <i>Advanced Materials</i> , 2015, 27, 7476-7482.	11.1	70
16	In Situ Investigation of Li and Na Ion Transport with Single Nanowire Electrochemical Devices. <i>Nano Letters</i> , 2015, 15, 3879-3884.	4.5	61
17	Superior Hydrogen Evolution Reaction Performance in 2H-MoS ₂ to that of 1T Phase. <i>Small</i> , 2019, 15, e1900964.	5.2	59
18	3D printing of cellular materials for advanced electrochemical energy storage and conversion. <i>Nanoscale</i> , 2020, 12, 7416-7432.	2.8	56

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19	MoS ₂ /MnO ₂ heterostructured nanodevices for electrochemical energy storage. Nano Research, 2018, 11, 2083-2092.	5.8	47
20	Nanoribbons and nanoscrolls intertwined three-dimensional vanadium oxide hydrogels for high-rate lithium storage at high mass loading level. Nano Energy, 2017, 40, 73-81.	8.2	44
21	3D-printed interdigitated graphene framework as superior support of metal oxide nanostructures for remarkable micro-pseudocapacitors. Electrochimica Acta, 2019, 319, 245-252.	2.6	44
22	3D printed hybrid-dimensional electrodes for flexible micro-supercapacitors with superior electrochemical behaviours. Virtual and Physical Prototyping, 2020, 15, 511-519.	5.3	43
23	Vertically stacked holey graphene/polyaniline heterostructures with enhanced energy storage for on-chip micro-supercapacitors. Nano Research, 2016, 9, 1012-1021.	5.8	39
24	Tailoring Pore Structures of 3D Printed Cellular High-Loading Cathodes for Advanced Rechargeable Zinc-Ion Batteries. Small, 2021, 17, e2100746.	5.2	38
25	Boosting capacitive charge storage of 3D-printed micro-pseudocapacitors via rational holey graphene engineering. Carbon, 2019, 155, 562-569.	5.4	36
26	3D printing-based cellular microelectrodes for high-performance asymmetric quasi-solid-state micro-pseudocapacitors. Journal of Materials Chemistry A, 2020, 8, 1749-1756.	5.2	35
27	In operando observation of temperature-dependent phase evolution in lithium-incorporation olivine cathode. Nano Energy, 2016, 22, 406-413.	8.2	31
28	Rapid, all dry microfabrication of three-dimensional Co ₃ O ₄ /Pt nanonetworks for high-performance microsupercapacitors. Nanoscale, 2017, 9, 11765-11772.	2.8	30
29	3D printed cellular cathodes with hierarchical pores and high mass loading for Li-SeS ₂ battery. Electrochimica Acta, 2020, 349, 136331.	2.6	30
30	Recent Advances in Nanowire-Based, Flexible, Freestanding Electrodes for Energy Storage. Chemistry - A European Journal, 2018, 24, 18307-18321.	1.7	29
31	Direct Ink Writing of Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ -Based Solid-State Electrolytes with Customized Shapes and Remarkable Electrochemical Behaviors. Small, 2021, 17, e2002866.	5.2	27
32	Non-equilibrium microstructure of Li _{1.4} Al _{0.4} Ti _{1.6} (PO ₄) ₃ superionic conductor by spark plasma sintering for enhanced ionic conductivity. Nano Energy, 2018, 51, 19-25.	8.2	24
33	A High-Voltage Hybrid Solid Electrolyte Based on Polycaprolactone for High-Performance all-Solid-State Flexible Lithium Batteries. ACS Applied Energy Materials, 2021, 4, 2318-2326.	2.5	24
34	3D Printing for Solid-State Energy Storage. Small Methods, 2021, 5, e2100877.	4.6	24
35	Direct ink writing of 2D material-based supercapacitors. 2D Materials, 2022, 9, 012001.	2.0	23
36	A universal strategy towards 3D printable nanomaterial inks for superior cellular high-loading battery electrodes. Journal of Materials Chemistry A, 2021, 9, 16086-16092.	5.2	22

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37	In-situ selective surface engineering of graphene micro-supercapacitor chips. Nano Research, 2022, 15, 1492-1499.	5.8	19
38	Comparative tribological behavior of friction composites containing natural graphite and expanded graphite. Friction, 2020, 8, 684-694.	3.4	18
39	Selective doping to relax glassified grain boundaries substantially enhances the ionic conductivity of LiTi ₂ (PO ₄) ₃ glass-ceramic electrolytes. Journal of Power Sources, 2020, 449, 227574.	4.0	18
40	Scalable microfabrication of three-dimensional porous interconnected graphene scaffolds with carbon spheres for high-performance all carbon-based micro-supercapacitors. Journal of Materiomics, 2019, 5, 303-312.	2.8	13
41	Nitrogen-doped graphene/graphitic carbon nitride with enhanced charge separation and two-electron-transferring reaction activity for boosting photocatalytic hydrogen peroxide production. Sustainable Energy and Fuels, 2021, 5, 1511-1520.	2.5	13
42	Competition between activation energy and migration entropy in lithium ion conduction in superionic NASICON-type Li _{1-x} Ga _x Zr ₂ (PO ₄) ₃ . Journal of Materials Chemistry A, 2021, 9, 7817-7825.	5.2	10
43	Flexible in-plane zinc-ion hybrid capacitors with synergistic electrochemical behaviors for self-powered energy systems. Journal of Materials Chemistry A, 2022, 10, 14011-14019.	5.2	9
44	Sulfide synergistic electrochemical activity for high-performance alkaline rechargeable microbatteries. Journal of Materials Science, 2021, 56, 629-639.	1.7	4
45	Effect of CaO and CeO ₂ co-doping on thermo-physical properties of La ₂ Zr ₂ O ₇ . Journal of Asian Ceramic Societies, 2020, 8, 1010-1017.	1.0	3