

Peixun Xiong

List of Publications by Year in descending order

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64
papers

5,339
citations

101543

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110387

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all docs

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docs citations

66
times ranked

5543
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-organic frameworks: a new promising class of materials for a high performance supercapacitor electrode. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16640-16644.	10.3	505
2	Zn-doped Ni-MOF material with a high supercapacitive performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19005-19010.	10.3	395
3	A Polysulfide-Immobilizing Polymer Retards the Shuttling of Polysulfide Intermediates in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2018, 30, e1804581.	21.0	246
4	Nitrogen-Doped Carbon Nanotubes Derived from Metal-Organic Frameworks for Potassium-Ion Battery Anodes. <i>ChemSusChem</i> , 2018, 11, 202-208.	6.8	214
5	Elucidation of the Sodium-Storage Mechanism in Hard Carbons. <i>Advanced Energy Materials</i> , 2018, 8, 1703217.	19.5	212
6	Bismuth Nanoparticle@Carbon Composite Anodes for Ultralong Cycle Life and High-Rate Sodium-Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1904771.	21.0	201
7	High rate and long cycle life porous carbon nanofiber paper anodes for potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19237-19244.	10.3	195
8	Red Phosphorus Nanoparticle@3D Interconnected Carbon Nanosheet Framework Composite for Potassium-Ion Battery Anodes. <i>Small</i> , 2018, 14, e1802140.	10.0	194
9	A Redox-Active 2D Metal-Organic Framework for Efficient Lithium Storage with Extraordinary High Capacity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5273-5277.	13.8	189
10	Recent research progress in non-aqueous potassium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26495-26506.	2.8	188
11	Ultrathin, Strong, and Highly Flexible Ti ₃ C ₂ T _x MXene/Bacterial Cellulose Composite Films for High-Performance Electromagnetic Interference Shielding. <i>ACS Nano</i> , 2021, 15, 8439-8449.	14.6	178
12	Bismuth-Antimony Alloy Nanoparticle@Porous Carbon Nanosheet Composite Anode for High-Performance Potassium-Ion Batteries. <i>ACS Nano</i> , 2020, 14, 1018-1026.	14.6	176
13	Conjugated Microporous Polymers with Tunable Electronic Structure for High-Performance Potassium-Ion Batteries. <i>ACS Nano</i> , 2019, 13, 745-754.	14.6	162
14	Long cycle life and high rate sodium-ion chemistry for hard carbon anodes. <i>Energy Storage Materials</i> , 2018, 13, 274-282.	18.0	129
15	Inverse-vulcanization of vinyl functionalized covalent organic frameworks as efficient cathode materials for Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17977-17981.	10.3	122
16	Hierarchical cerium oxide derived from metal-organic frameworks for high performance supercapacitor electrodes. <i>Electrochimica Acta</i> , 2016, 222, 773-780.	5.2	120
17	Prussian blue analogues Mn[Fe(CN) ₆] _{0.6667} ·nH ₂ O cubes as an anode material for lithium-ion batteries. <i>Dalton Transactions</i> , 2015, 44, 16746-16751.	3.3	105
18	Solid electrolyte interphase manipulation towards highly stable hard carbon anodes for sodium ion batteries. <i>Energy Storage Materials</i> , 2020, 25, 324-333.	18.0	92

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19	In Situ Electropolymerization Enables Ultrafast Long Cycle Life and High Voltage Organic Cathodes for Lithium Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11992-11998.	13.8	91
20	High Rate, Large Capacity, and Long Life Dendrite-Free Zn Metal Anode Enabled by Trifunctional Electrolyte Additive with a Wide Temperature Range. <i>Advanced Science</i> , 2022, 9, .	11.2	91
21	Co-construction of sulfur vacancies and carbon confinement in $V_{0.5}S_{0.8}/CNFs$ to induce an ultra-stable performance for half/full sodium-ion and potassium-ion batteries. <i>Nanoscale</i> , 2021, 13, 5033-5044.	5.6	90
22	V_3Se_4 embedded within N/P co-doped carbon fibers for sodium/potassium ion batteries. <i>Chemical Engineering Journal</i> , 2021, 419, 129607.	12.7	89
23	Structural engineering of tin sulfides anchored on nitrogen/phosphorus dual-doped carbon nanofibres in sodium/potassium-ion batteries. <i>Carbon</i> , 2022, 189, 46-56.	10.3	86
24	Uniformly Dispersed Freestanding Carbon Nanofiber/Graphene Electrodes Made by a Scalable Biological Method for High Performance Flexible Supercapacitors. <i>Advanced Functional Materials</i> , 2018, 28, 1803075.	14.9	83
25	Room-Temperature Potassium Sulfur Batteries Enabled by Microporous Carbon Stabilized Small-Molecule Sulfur Cathodes. <i>ACS Nano</i> , 2019, 13, 2536-2543.	14.6	80
26	Rational Molecular Design of Benzoquinone-Derived Cathode Materials for High Performance Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1909597.	14.9	74
27	Electronically coupled layered double hydroxide/MXene quantum dot metallic hybrids for high performance flexible zinc-air batteries. <i>Informa-Materials</i> , 2021, 3, 1134-1144.	17.3	73
28	Recent progress of artificial interfacial layers in aqueous Zn metal batteries. <i>EnergyChem</i> , 2022, 4, 100076.	19.1	59
29	Electrospun $VSe_{1.5}/CNF$ composite with excellent performance for alkali metal ion batteries. <i>Nanoscale</i> , 2019, 11, 16308-16316.	5.6	50
30	Soluble Organic Cathodes Enable Long Cycle Life, High Rate, and Wide Temperature Lithium-Ion Batteries. <i>Advanced Materials</i> , 2022, 34, e2107226.	21.0	50
31	An ultra-small few-layer MoS_2 -hierarchical porous carbon fiber composite obtained via nanocasting synthesis for sodium-ion battery anodes with excellent long-term cycling performance. <i>Dalton Transactions</i> , 2019, 48, 4149-4156.	3.3	44
32	Unveiling Trifunctional Active Sites of a Heteronanoshet Electrocatalyst for Integrated Cascade Battery/Electrolyzer Systems. <i>ACS Energy Letters</i> , 2021, 6, 2460-2468.	17.4	42
33	Optimization of Molecular Structure and Electrode Architecture of Anthraquinone-Containing Polymer Cathode for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42305-42312.	8.0	41
34	Galvanically replaced artificial interfacial layer for highly reversible zinc metal anodes. <i>Applied Physics Reviews</i> , 2022, 9, .	11.3	40
35	Facile fabrication of a vanadium nitride/carbon fiber composite for half/full sodium-ion and potassium-ion batteries with long-term cycling performance. <i>Nanoscale</i> , 2020, 12, 10693-10702.	5.6	39
36	Pseudo-capacitive performance of titanate nanotubes as a supercapacitor electrode. <i>Chemical Communications</i> , 2014, 50, 5973.	4.1	38

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37	Ultrathin TiO ₂ -B nanowires with enhanced electrochemical performance for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10038-10044.	10.3	37
38	Stabilizing intermediate phases <i>via</i> the efficient confinement effects of the SnS ₂ -SPAN fibre composite for ultra-stable half/full sodium/potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11449-11457.	10.3	36
39	Facile synthesis of hierarchical MnO ₂ sub-microspheres composed of nanosheets and their application for supercapacitors. <i>RSC Advances</i> , 2014, 4, 40753-40757.	3.6	35
40	Insight into the intercalation mechanism of WSe ₂ onions toward metal ion capacitors: sodium rivals lithium. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21605-21617.	10.3	35
41	A Redox-Active 2D Metal-Organic Framework for Efficient Lithium Storage with Extraordinary High Capacity. <i>Angewandte Chemie</i> , 2020, 132, 5311-5315.	2.0	34
42	A redox-active conjugated microporous polymer cathode for high-performance lithium/potassium-organic batteries. <i>Science China Chemistry</i> , 2021, 64, 72-81.	8.2	33
43	Two-Dimensional Pseudocapacitive Nanomaterials for High-Energy- and High-Power-Oriented Applications of Supercapacitors. <i>Accounts of Materials Research</i> , 2021, 2, 86-96.	11.7	33
44	Microbial Disinfection with Supercoiling Capacitive Triboelectric Nanogenerator. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	31
45	Layered Double Hydroxide Quantum Dots for Use in a Bifunctional Separator of Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17978-17987.	8.0	28
46	Highly Potassiophilic Carbon Nanofiber Paper Derived from Bacterial Cellulose Enables Ultra-Stable Dendrite-Free Potassium Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17629-17638.	8.0	27
47	In-situ electropolymerized bipolar organic cathode for stable and high-rate lithium-ion batteries. <i>Science China Materials</i> , 2021, 64, 2938-2948.	6.3	23
48	Molten Lithium-Filled Three-Dimensional Hollow Carbon Tube Mats for Stable Lithium Metal Anodes. <i>ACS Applied Energy Materials</i> , 2019, 2, 8303-8309.	5.1	21
49	In-Situ Electropolymerization Enables Ultrafast Long Cycle Life and High-Voltage Organic Cathodes for Lithium Batteries. <i>Angewandte Chemie</i> , 2020, 132, 12090-12096.	2.0	21
50	2D MOF-derived CoS _{1.097} nanoparticle embedded S-doped porous carbon nanosheets for high performance sodium storage. <i>Chemical Engineering Journal</i> , 2021, 405, 126638.	12.7	21
51	Efficient polysulfide trapping enabled by a polymer adsorbent in lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2020, 336, 135693.	5.2	16
52	Rapid synthesis of layered K _x MnO ₂ cathodes from metal-organic frameworks for potassium-ion batteries. <i>Chemical Science</i> , 2022, 13, 7575-7580.	7.4	16
53	Nanocomposite Li ₃ V ₂ (PO ₄) ₃ /carbon as a cathode material with high rate performance and long-term cycling stability in lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 57127-57132.	3.6	13
54	Thiourea-based polyimide/RGO composite cathode: A comprehensive study of storage mechanism with alkali metal ions. <i>Science China Materials</i> , 2020, 63, 1929-1938.	6.3	13

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55	Flexible, robust and washable bacterial cellulose/silver nanowire conductive paper for high-performance electromagnetic interference shielding. <i>Journal of Materials Chemistry A</i> , 2022, 10, 960-968.	10.3	13
56	Rhenium induced electronic structure modulation of Ni ₃ S ₂ /N-doped graphene for efficient trifunctional electrocatalysis. <i>Composites Part B: Engineering</i> , 2022, 234, 109670.	12.0	12
57	Electrospun conductive carbon nanofiber hosts for stable zinc metal anode. <i>International Journal of Energy Research</i> , 2022, 46, 7201-7214.	4.5	11
58	Multiphase and Multicomponent Nickel-Iron Oxide Heterostructure as an Efficient Separator Modification Layer for Advanced Lithium Sulfur Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 1843-1849.	4.7	10
59	<sc>NiFe</sc> layered double hydroxide nanosheets grafted onto carbon nanotubes for functional separator of lithium sulfur batteries. <i>International Journal of Energy Research</i> , 2022, 46, 9634-9642.	4.5	9
60	Ultrafast Synthesis of Layered Transition-Metal Oxide Cathodes from Metal-Organic Frameworks for High-Capacity Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24462-24468.	8.0	8
61	Nitrogen-doped carbon coated silicon derived from a facile strategy with enhanced performance for lithium storage. <i>Functional Materials Letters</i> , 2016, 09, 1650055.	1.2	6
62	Algal residues-engaged formation of novel WVO ₄ /V ₃ Se ₄ hybrid nanostructure with carbon fiber confinement for enhanced long-term cycling stability in sodium/potassium storage. <i>Journal of Alloys and Compounds</i> , 2021, 892, 162177.	5.5	6
63	Structure Engineering of BiSbS Nanocrystals Embedded within Sulfurized Polyacrylonitrile Fibers for High Performance of Potassium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	5
64	Titelbild: A Redox-Active 2D Metal-Organic Framework for Efficient Lithium Storage with Extraordinary High Capacity (<i>Angew. Chem.</i> 13/2020). <i>Angewandte Chemie</i> , 2020, 132, 5005-5005.	2.0	0