

Yunhua Xu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

9,490
citations

43
h-index

87
g-index

87
ext. papers

11,059
ext. citations

12.9
avg, IF

6.67
L-index

#	Paper	IF	Citations
81	A nitroaromatic cathode with an ultrahigh energy density based on six-electron reaction per nitro group for lithium batteries.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	3
80	Scalable waste-plastic-derived carbon nanosheets with high contents of inbuilt nitrogen/sulfur sites for high performance potassium-ion hybrid capacitors. <i>Nano Energy</i> , 2022 , 95, 107015	17.1	2
79	Hierarchical multi-channels conductive framework constructed with rGO modified natural biochar for high sulfur areal loading self-supporting cathode of lithium-sulfur batteries. <i>Chemical Engineering Journal Advances</i> , 2022 , 9, 100209	3.6	0
78	Lithiophilic Carbon Nanofiber/Graphene Nanosheet Composite Scaffold Prepared by a Scalable and Controllable Biofabrication Method for Ultrastable Dendrite-Free Lithium-Metal Anodes. <i>Small</i> , 2021 , 18, e2104735	11	1
77	Soluble Organic Cathodes Enable Long Cycle Life, High Rate and Wide-temperature Lithium-ion Batteries. <i>Advanced Materials</i> , 2021 , e2107226	24	8
76	A "pre-constrained Metal twins" Strategy to Prepare Efficient dual-metal atom Catalysts for Cooperative Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2021 , e2107421	24	18
75	Metal-Organic Frameworks and Their Derivatives: Designing Principles and Advances toward Advanced Cathode Materials for Alkali Metal Ion Batteries. <i>Small</i> , 2021 , 17, e2006424	11	17
74	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	9.5	6
73	Metal-Organic Framework@Polyacrylonitrile-Derived Potassiophilic Nanoporous Carbon Nanofiber Paper Enables Stable Potassium Metal Anodes. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6245-6252	6.1	6
72	Ultrathin, Strong, and Highly Flexible TiCT MXene/Bacterial Cellulose Composite Films for High-Performance Electromagnetic Interference Shielding. <i>ACS Nano</i> , 2021 , 15, 8439-8449	16.7	44
71	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	14.7	7
70	Mesoporous carbon nanomaterials with tunable geometries and porous structures fabricated by a surface-induced assembly strategy. <i>Energy Storage Materials</i> , 2021 , 35, 602-609	19.4	7
69	A redox-active conjugated microporous polymer cathode for high-performance lithium/potassium-organic batteries. <i>Science China Chemistry</i> , 2021 , 64, 72-81	7.9	15
68	Electrolytes and Interphases in Potassium Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2003741	24	63
67	A poorly soluble organic electrode material for high energy density lithium primary batteries based on a multi-electron reduction. <i>Chemical Communications</i> , 2021 , 57, 10791-10794	5.8	1
66	Storage Mechanism of Alkali Metal Ions in the Hard Carbon Anode: an Electrochemical Viewpoint. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38441-38449	9.5	8
65	Optimization of Monomer Molecular Structure for Polymer Electrodes Fabricated through in-situ Electro-Polymerization Strategy. <i>ChemSusChem</i> , 2021 , 14, 4573-4582	8.3	1

64	High performance potassium-sulfur batteries and their reaction mechanism. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10875-10884	13	25
63	Electrochemically active sites inside crystalline porous materials for energy storage and conversion. <i>Chemical Society Reviews</i> , 2020 , 49, 2378-2407	58.5	137
62	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	16.4	37
61	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	7.1	10
60	Performance Enhancement of Polymer Electrode Materials for Lithium-Ion Batteries: From a Rigid Homopolymer to Soft Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32666-32672	9.5	9
59	Titelbild: A Redox-Active 2D Metal-Organic Framework for Efficient Lithium Storage with Extraordinary High Capacity (Angew. Chem. 13/2020). <i>Angewandte Chemie</i> , 2020 , 132, 5005-5005	3.6	
58	Enhanced surface binding energy regulates uniform potassium deposition for stable potassium metal anodes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5671-5678	13	29
57	Rational Molecular Design of Benzoquinone-Derived Cathode Materials for High-Performance Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1909597	15.6	37
56	Efficient polysulfide trapping enabled by a polymer adsorbent in lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2020 , 336, 135693	6.7	11
55	Poorly Soluble 2,6-Dimethoxy-9,10-anthraquinone Cathode for Lithium-Ion Batteries: The Role of Electrolyte Concentration. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7179-7185	9.5	18
54	In Situ Electropolymerization Enables Ultrafast Long Cycle Life and High-Voltage Organic Cathodes for Lithium Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 12090-12096	3.6	8
53	A Redox-Active 2D Metal-Organic Framework for Efficient Lithium Storage with Extraordinary High Capacity. <i>Angewandte Chemie</i> , 2020 , 132, 5311-5315	3.6	25
52	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	16.4	94
51	A Lithium-Organic Primary Battery. <i>Small</i> , 2020 , 16, e1906462	11	21
50	Bismuth-Antimony Alloy Nanoparticle@Porous Carbon Nanosheet Composite Anode for High-Performance Potassium-Ion Batteries. <i>ACS Nano</i> , 2020 , 14, 1018-1026	16.7	110
49	Benzoquinone- and Naphthoquinone-Bearing Polymers Synthesized by Ring-Opening Metathesis Polymerization as Cathode Materials for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2020 , 13, 334-340	8.3	20
48	An Insoluble Anthraquinone Dimer with Near-Plane Structure as a Cathode Material for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2020 , 13, 2436-2442	8.3	17
47	Facile synthesis of Fe-based metal-organic framework and graphene composite as an anode material for K-ion batteries. <i>Ionics</i> , 2020 , 26, 5565-5573	2.7	11

46	Solid electrolyte interphase manipulation towards highly stable hard carbon anodes for sodium ion batteries. <i>Energy Storage Materials</i> , 2020 , 25, 324-333	19.4	44
45	Room-Temperature Potassium-Sulfur Batteries Enabled by Microporous Carbon Stabilized Small-Molecule Sulfur Cathodes. <i>ACS Nano</i> , 2019 , 13, 2536-2543	16.7	65
44	Solar Thermal Storage and Room-Temperature Fast Release Using a Uniform Flexible Azobenzene-Grafted Polynorborene Film Enhanced by Stretching. <i>Macromolecules</i> , 2019 , 52, 4222-4231	5.5	20
43	Bismuth Nanoparticle@Carbon Composite Anodes for Ultralong Cycle Life and High-Rate Sodium-Ion Batteries. <i>Advanced Materials</i> , 2019 , 31, e1904771	24	118
42	Confined Fe ₂ VO ₄ ?Nitrogen-Doped Carbon Nanowires with Internal Void Space for High-Rate and Ultrastable Potassium-Ion Storage. <i>Advanced Energy Materials</i> , 2019 , 9, 1902674	21.8	57
41	Molten Lithium-Filled Three-Dimensional Hollow Carbon Tube Mats for Stable Lithium Metal Anodes. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8303-8309	6.1	11
40	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	9.5	25
39	Uniform Mesoporous MnO Nanospheres as a Surface Chemical Adsorption and Physical Confinement Polysulfide Mediator for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10624-10630	9.5	46
38	Conjugated Microporous Polymers with Tunable Electronic Structure for High-Performance Potassium-Ion Batteries. <i>ACS Nano</i> , 2019 , 13, 745-754	16.7	94
37	Long cycle life and high rate sodium-ion chemistry for hard carbon anodes. <i>Energy Storage Materials</i> , 2018 , 13, 274-282	19.4	93
36	Elucidation of the Sodium-Storage Mechanism in Hard Carbons. <i>Advanced Energy Materials</i> , 2018 , 8, 1703217	21.7	138
35	Free-Standing Nitrogen-Doped Cup-Stacked Carbon Nanotube Mats for Potassium-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1703-1707	6.1	71
34	Nitrogen-Doped Carbon Nanotubes Derived from Metal-Organic Frameworks for Potassium-Ion Battery Anodes. <i>ChemSusChem</i> , 2018 , 11, 202-208	8.3	173
33	Red Phosphorus Nanoparticle@3D Interconnected Carbon Nanosheet Framework Composite for Potassium-Ion Battery Anodes. <i>Small</i> , 2018 , 14, e1802140	11	164
32	Sodium sulfonate groups substituted anthraquinone as an organic cathode for potassium batteries. <i>Electrochemistry Communications</i> , 2018 , 86, 34-37	5.1	72
31	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	13	27
30	Marriage of an Ether-Based Electrolyte with Hard Carbon Anodes Creates Superior Sodium-Ion Batteries with High Mass Loading. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41380-41388	9.5	44
29	Electrolyte-Regulated Solid-Electrolyte Interphase Enables Long Cycle Life Performance in Organic Cathodes for Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 29, 1807137	15.6	70

28	A Polysulfide-Immobilizing Polymer Retards the Shuttling of Polysulfide Intermediates in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2018 , 30, e1804581	24	168
27	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	15.6	69
26	Inverse-vulcanization of vinyl functionalized covalent organic frameworks as efficient cathode materials for LiS batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17977-17981	13	91
25	Toward High Performance Thiophene-Containing Conjugated Microporous Polymer Anodes for Lithium-Ion Batteries through Structure Design. <i>Advanced Functional Materials</i> , 2018 , 28, 1705432	15.6	124
24	Reaction and Capacity-Fading Mechanisms of Tin Nanoparticles in Potassium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 12652-12657	3.8	121
23	Recent research progress in non-aqueous potassium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 26495-26506	3.6	149
22	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	13	159
21	Activation of Oxygen-Stabilized Sulfur for Li and Na Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 745-752	15.6	66
20	Electrochemical Intercalation of Potassium into Graphite. <i>Advanced Functional Materials</i> , 2016 , 26, 8103-8110	15.6	426
19	3D Si/C Fiber Paper Electrodes Fabricated Using a Combined Electro Spray/Electrospinning Technique for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1400753	21.8	213
18	Confined Sulfur in Microporous Carbon Renders Superior Cycling Stability in Li/S Batteries. <i>Advanced Functional Materials</i> , 2015 , 25, 4312-4320	15.6	232
17	Mn3O4 hollow spheres for lithium-ion batteries with high rate and capacity. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4627-4632	13	136
16	Mesoporous carbon/silicon composite anodes with enhanced performance for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9751-9757	13	68
15	Lithium-Tellurium batteries based on tellurium/porous carbon composite. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12201-12207	13	92
14	In situ transmission electron microscopy study of electrochemical sodiation and potassiation of carbon nanofibers. <i>Nano Letters</i> , 2014 , 14, 3445-52	11.5	230
13	Expanded graphite as superior anode for sodium-ion batteries. <i>Nature Communications</i> , 2014 , 5, 4033	17.4	1209
12	Selenium@mesoporous carbon composite with superior lithium and sodium storage capacity. <i>ACS Nano</i> , 2013 , 7, 8003-10	16.7	335
11	Nano-structured carbon-coated CuO hollow spheres as stable and high rate anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15486	13	60

10	Comparison of electrochemical performances of olivine NaFePO ₄ in sodium-ion batteries and olivine LiFePO ₄ in lithium-ion batteries. <i>Nanoscale</i> , 2013 , 5, 780-7	7.7	350
9	Uniform nano-Sn/C composite anodes for lithium ion batteries. <i>Nano Letters</i> , 2013 , 13, 470-4	11.5	470
8	Electrospun Sb/C fibers for a stable and fast sodium-ion battery anode. <i>ACS Nano</i> , 2013 , 7, 6378-86	16.7	557
7	Electrochemical Performance of Porous Carbon/Tin Composite Anodes for Sodium-Ion and Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013 , 3, 128-133	21.8	701
6	Sponge-like porous carbon/tin composite anode materials for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9562		150
5	Sulfur-impregnated disordered carbon nanotubes cathode for lithium-sulfur batteries. <i>Nano Letters</i> , 2011 , 11, 4288-94	11.5	1097
4	Metal/Covalent-Organic Framework Based Cathodes for Metal-Ion Batteries. <i>Advanced Energy Materials</i> , 2100172	21.8	33
3	In-situ electropolymerized bipolar organic cathode for stable and high-rate lithium-ion batteries. <i>Science China Materials</i> , 1	7.1	4
2	Ultralong Cycle Life Organic Cathode Enabled by Ether-Based Electrolytes for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2101972	21.8	10
1	Quinone-Amine Polymer Nanoparticles Prepared through Facile Precipitation Polymerization as Ultrafast and Ultralong Cycle Life Cathode Materials for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2111307	15.6	6