Yunhua Xu

List of Publications by Citations

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	Expanded graphite as superior anode for sodium-ion batteries. *Nature Communications*, **2014**, 5, 4033	17.4	1209
80	Sulfur-impregnated disordered carbon nanotubes cathode for lithium-sulfur batteries. *Nano Letters*, **2011**, 11, 4288-94	11.5	1097
79	Electrochemical Performance of Porous Carbon/Tin Composite Anodes for Sodium-Ion and Lithium-Ion Batteries. *Advanced Energy Materials*, **2013**, 3, 128-133	21.8	701
78	Electrospun Sb/C fibers for a stable and fast sodium-ion battery anode. *ACS Nano*, **2013**, 7, 6378-86	16.7	557
77	Uniform nano-Sn/C composite anodes for lithium ion batteries. *Nano Letters*, **2013**, 13, 470-4	11.5	470
76	Electrochemical Intercalation of Potassium into Graphite. *Advanced Functional Materials*, **2016**, 26, 8103-8110	15.6	426
75	Comparison of electrochemical performances of olivine NaFePO4 in sodium-ion batteries and olivine LiFePO4 in lithium-ion batteries. *Nanoscale*, **2013**, 5, 780-7	7.7	350
74	Selenium@mesoporous carbon composite with superior lithium and sodium storage capacity. *ACS Nano*, **2013**, 7, 8003-10	16.7	335
73	Confined Sulfur in Microporous Carbon Renders Superior Cycling Stability in Li/S Batteries. *Advanced Functional Materials*, **2015**, 25, 4312-4320	15.6	232
72	In situ transmission electron microscopy study of electrochemical sodiation and potassiation of carbon nanofibers. *Nano Letters*, **2014**, 14, 3445-52	11.5	230
71	3D Si/C Fiber Paper Electrodes Fabricated Using a Combined Electrospray/Electrospinning Technique for Li-Ion Batteries. *Advanced Energy Materials*, **2015**, 5, 1400753	21.8	213
70	Nitrogen-Doped Carbon Nanotubes Derived from Metal-Organic Frameworks for Potassium-Ion Battery Anodes. *ChemSusChem*, **2018**, 11, 202-208	8.3	173
69	A Polysulfide-Immobilizing Polymer Retards the Shuttling of Polysulfide Intermediates in Lithium-Sulfur Batteries. *Advanced Materials*, **2018**, 30, e1804581	24	168
68	Red Phosphorus Nanoparticle@3D Interconnected Carbon Nanosheet Framework Composite for Potassium-Ion Battery Anodes. *Small*, **2018**, 14, e1802140	11	164
67	High rate and long cycle life porous carbon nanofiber paper anodes for potassium-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 19237-19244	13	159
66	Sponge-like porous carbon/tin composite anode materials for lithium ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 9562		150
65	Recent research progress in non-aqueous potassium-ion batteries. *Physical Chemistry Chemical Physics*, **2017**, 19, 26495-26506	3.6	149

64	Elucidation of the Sodium-Storage Mechanism in Hard Carbons. *Advanced Energy Materials*, **2018**, 8, 1703217	32.7	138
63	Electrochemically active sites inside crystalline porous materials for energy storage and conversion. *Chemical Society Reviews*, **2020**, 49, 2378-2407	58.5	137
62	Mn3O4 hollow spheres for lithium-ion batteries with high rate and capacity. *Journal of Materials Chemistry A*, **2014**, 2, 4627-4632	13	136
61	Toward High Performance Thiophene-Containing Conjugated Microporous Polymer Anodes for Lithium-Ion Batteries through Structure Design. *Advanced Functional Materials*, **2018**, 28, 1705432	15.6	124
60	Reaction and Capacity-Fading Mechanisms of Tin Nanoparticles in Potassium-Ion Batteries. *Journal of Physical Chemistry C*, **2017**, 121, 12652-12657	3.8	121
59	Bismuth Nanoparticle@Carbon Composite Anodes for Ultralong Cycle Life and High-Rate Sodium-Ion Batteries. *Advanced Materials*, **2019**, 31, e1904771	24	118
58	Bismuth-Antimony Alloy Nanoparticle@Porous Carbon Nanosheet Composite Anode for High-Performance Potassium-Ion Batteries. *ACS Nano*, **2020**, 14, 1018-1026	16.7	110
57	A Redox-Active 2D Metal-Organic Framework for Efficient Lithium Storage with Extraordinary High Capacity. *Angewandte Chemie - International Edition*, **2020**, 59, 5273-5277	16.4	94
56	Conjugated Microporous Polymers with Tunable Electronic Structure for High-Performance Potassium-Ion Batteries. *ACS Nano*, **2019**, 13, 745-754	16.7	94
55	Long cycle life and high rate sodium-ion chemistry for hard carbon anodes. *Energy Storage Materials* , **2018**, 13, 274-282	19.4	93
54	Lithium□ellurium batteries based on tellurium/porous carbon composite. *Journal of Materials Chemistry A*, **2014**, 2, 12201-12207	13	92
53	Inverse-vulcanization of vinyl functionalized covalent organic frameworks as efficient cathode materials for Li□ batteries. *Journal of Materials Chemistry A*, **2018**, 6, 17977-17981	13	91
52	Sodium sulfonate groups substituted anthraquinone as an organic cathode for potassium batteries. *Electrochemistry Communications*, **2018**, 86, 34-37	5.1	72
51	Free-Standing Nitrogen-Doped Cup-Stacked Carbon Nanotube Mats for Potassium-Ion Battery Anodes. *ACS Applied Energy Materials*, **2018**, 1, 1703-1707	6.1	71
50	Electrolyte-Regulated Solid-Electrolyte Interphase Enables Long Cycle Life Performance in Organic Cathodes for Potassium-Ion Batteries. *Advanced Functional Materials*, **2018**, 29, 1807137	15.6	70
49	Uniformly Dispersed Freestanding Carbon Nanofiber/Graphene Electrodes Made by a Scalable Biological Method for High-Performance Flexible Supercapacitors. *Advanced Functional Materials*, **2018**, 28, 1803075	15.6	69
48	Mesoporous carbon/silicon composite anodes with enhanced performance for lithium-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 9751-9757	13	68
47	Activation of Oxygen-Stabilized Sulfur for Li and Na Batteries. *Advanced Functional Materials*, **2016**, 26, 745-752	15.6	66

46	Room-Temperature Potassium-Sulfur Batteries Enabled by Microporous Carbon Stabilized Small-Molecule Sulfur Cathodes. *ACS Nano*, **2019**, 13, 2536-2543	16.7	65
45	Electrolytes and Interphases in Potassium Ion Batteries. *Advanced Materials*, **2021**, 33, e2003741	24	63
44	Nano-structured carbon-coated CuO hollow spheres as stable and high rate anodes for lithium-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 15486	13	60
43	Confined Fe2VO4?Nitrogen-Doped Carbon Nanowires with Internal Void Space for High-Rate and Ultrastable Potassium-Ion Storage. *Advanced Energy Materials*, **2019**, 9, 1902674	21.8	57
42	Uniform Mesoporous MnO Nanospheres as a Surface Chemical Adsorption and Physical Confinement Polysulfide Mediator for Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 10624-10630	9.5	46
41	Ultrathin, Strong, and Highly Flexible TiCT MXene/Bacterial Cellulose Composite Films for High-Performance Electromagnetic Interference Shielding. *ACS Nano*, **2021**, 15, 8439-8449	16.7	44
40	Solid electrolyte interphase manipulation towards highly stable hard carbon anodes for sodium ion batteries. *Energy Storage Materials*, **2020**, 25, 324-333	19.4	44
39	Marriage of an Ether-Based Electrolyte with Hard Carbon Anodes Creates Superior Sodium-Ion Batteries with High Mass Loading. *ACS Applied Materials & Interfaces*, **2018**, 10, 41380-41388	9.5	44
38	In Situ Electropolymerization Enables Ultrafast Long Cycle Life and High-Voltage Organic Cathodes for Lithium Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 11992-11998	16.4	37
37	Rational Molecular Design of Benzoquinone-Derived Cathode Materials for High-Performance Lithium-Ion Batteries. *Advanced Functional Materials*, **2020**, 30, 1909597	15.6	37
36	Metal/Covalent-Organic Framework Based Cathodes for Metal-Ion Batteries. *Advanced Energy Materials*,2100172	21.8	33
35	Enhanced surface binding energy regulates uniform potassium deposition for stable potassium metal anodes. *Journal of Materials Chemistry A*, **2020**, 8, 5671-5678	13	29
34	Insight into the intercalation mechanism of WSe2 onions toward metal ion capacitors: sodium rivals lithium. *Journal of Materials Chemistry A*, **2018**, 6, 21605-21617	13	27
33	High performance potassium–sulfur batteries and their reaction mechanism. *Journal of Materials Chemistry A*, **2020**, 8, 10875-10884	13	25
32	Optimization of Molecular Structure and Electrode Architecture of Anthraquinone-Containing Polymer Cathode for High-Performance Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 42305-42312	9.5	25
31	A Redox-Active 2D Metal–Organic Framework for Efficient Lithium Storage with Extraordinary High Capacity. *Angewandte Chemie*, **2020**, 132, 5311-5315	3.6	25
30	A Lithium-Organic Primary Battery. *Small*, **2020**, 16, e1906462	11	21
29	Solar Thermal Storage and Room-Temperature Fast Release Using a Uniform Flexible Azobenzene-Grafted Polynorborene Film Enhanced by Stretching. *Macromolecules*, **2019**, 52, 4222-4231	5.5	20

28	Benzoquinone- and Naphthoquinone-Bearing Polymers Synthesized by Ring-Opening Metathesis Polymerization as Cathode Materials for Lithium-Ion Batteries. *ChemSusChem*, **2020**, 13, 334-340	8.3	20
27	Poorly Soluble 2,6-Dimethoxy-9,10-anthraquinone Cathode for Lithium-Ion Batteries: The Role of Electrolyte Concentration. *ACS Applied Materials & Interfaces*, **2020**, 12, 7179-7185	9.5	18
26	A "pre-constrained Metal twins" Strategy to Prepare Efficient dual-metal atom Catalysts for Cooperative Oxygen Electrocatalysis. *Advanced Materials*, **2021**, e2107421	24	18
25	An Insoluble Anthraquinone Dimer with Near-Plane Structure as a Cathode Material for Lithium-Ion Batteries. *ChemSusChem*, **2020**, 13, 2436-2442	8.3	17
24	Metal-Organic Frameworks and Their Derivatives: Designing Principles and Advances toward Advanced Cathode Materials for Alkali Metal Ion Batteries. *Small*, **2021**, 17, e2006424	11	17
23	A redox-active conjugated microporous polymer cathode for high-performance lithium/potassium-organic batteries. *Science China Chemistry*, **2021**, 64, 72-81	7.9	15
22	Efficient polysulfide trapping enabled by a polymer adsorbent in lithium-sulfur batteries. *Electrochimica Acta*, **2020**, 336, 135693	6.7	11
21	Molten Lithium-Filled Three-Dimensional Hollow Carbon Tube Mats for Stable Lithium Metal Anodes. *ACS Applied Energy Materials*, **2019**, 2, 8303-8309	6.1	11
20	Facile synthesis of Fe-based metal-organic framework and graphene composite as an anode material for K-ion batteries. *Ionics*, **2020**, 26, 5565-5573	2.7	11
19	Thiourea-based polyimide/RGO composite cathode: A comprehensive study of storage mechanism with alkali metal ions. *Science China Materials*, **2020**, 63, 1929-1938	7.1	10
18	Ultralong Cycle Life Organic Cathode Enabled by Ether-Based Electrolytes for Sodium-Ion Batteries. *Advanced Energy Materials*,2101972	21.8	10
17	Performance Enhancement of Polymer Electrode Materials for Lithium-Ion Batteries: From a Rigid Homopolymer to Soft Copolymers. *ACS Applied Materials & Interfaces*, **2020**, 12, 32666-32672	9.5	9
16	In Situ Electropolymerization Enables Ultrafast Long Cycle Life and High-Voltage Organic Cathodes for Lithium Batteries. *Angewandte Chemie*, **2020**, 132, 12090-12096	3.6	8
15	Soluble Organic Cathodes Enable Long Cycle Life, High Rate and Wide-temperature Lithium-ion Batteries. *Advanced Materials*, **2021**, e2107226	24	8
14	Storage Mechanism of Alkali Metal Ions in the Hard Carbon Anode: an Electrochemical Viewpoint. *ACS Applied Materials & Interfaces*, **2021**, 13, 38441-38449	9.5	8
13	2D MOF-derived CoS1.097 nanoparticle embedded S-doped porous carbon nanosheets for high performance sodium storage. *Chemical Engineering Journal*, **2021**, 405, 126638	14.7	7
12	Mesoporous carbon nanomaterials with tunable geometries and porous structures fabricated by a surface-induced assembly strategy. *Energy Storage Materials*, **2021**, 35, 602-609	19.4	7
11	Highly Potassiophilic Carbon Nanofiber Paper Derived from Bacterial Cellulose Enables Ultra-Stable Dendrite-Free Potassium Metal Anodes. *ACS Applied Materials & Interfaces*, **2021**, 13, 17629-17638	9.5	6

10	Metal□rganic Framework@Polyacrylonitrile-Derived Potassiophilic Nanoporous Carbon Nanofiber Paper Enables Stable Potassium Metal Anodes. *ACS Applied Energy Materials*, **2021**, 4, 6245-6252	6.1	6
9	Quinone-Amine Polymer Nanoparticles Prepared through Facile Precipitation Polymerization as Ultrafast and Ultralong Cycle Life Cathode Materials for Lithium-Ion Batteries. *Advanced Functional Materials*,2111307	15.6	6
8	In-situ electropolymerized bipolar organic cathode for stable and high-rate lithium-ion batteries. *Science China Materials*,1	7.1	4
7	A nitroaromatic cathode with an ultrahigh energy density based on six-electron reaction per nitro group for lithium batteries.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119,	11.5	3
6	Scalable waste-plastic-derived carbon nanosheets with high contents of inbuilt nitrogen/sulfur sites for high performance potassium-ion hybrid capacitors. *Nano Energy*, **2022**, 95, 107015	17.1	2
5	Lithiophilic Carbon Nanofiber/Graphene Nanosheet Composite Scaffold Prepared by a Scalable and Controllable Biofabrication Method for Ultrastable Dendrite-Free Lithium-Metal Anodes. *Small*, **2021**, 18, e2104735	11	1
4	A poorly soluble organic electrode material for high energy density lithium primary batteries based on a multi-electron reduction. *Chemical Communications*, **2021**, 57, 10791-10794	5.8	1
3	Optimization of Monomer Molecular Structure for Polymer Electrodes Fabricated through in-situ Electro-Polymerization Strategy. *ChemSusChem*, **2021**, 14, 4573-4582	8.3	1
2	Hierarchical multi-channels conductive framework constructed with rGO modified natural biochar for high sulfur areal loading self-supporting cathode of lithium-sulfur batteries. *Chemical Engineering Journal Advances*, **2022**, 9, 100209	3.6	0
1	Titelbild: A Redox-Active 2D Metal□rganic Framework for Efficient Lithium Storage with Extraordinary High Capacity (Angew. Chem. 13/2020). *Angewandte Chemie*, **2020**, 132, 5005-5005	3.6	