

Xunhui Xiong

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108
papers

7,618
citations

48
h-index

86
g-index

110
ext. papers

8,980
ext. citations

9.9
avg, IF

6.28
L-index

#	Paper	IF	Citations
108	SnS nanoparticles electrostatically anchored on three-dimensional N-doped graphene as an active and durable anode for sodium-ion batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 1757-1763	35.4	345
107	Three-dimensional ultrathin Ni(OH) ₂ nanosheets grown on nickel foam for high-performance supercapacitors. <i>Nano Energy</i> , 2015 , 11, 154-161	17.1	329
106	Enhancing Sodium Ion Battery Performance by Strongly Binding Nanostructured SbS on Sulfur-Doped Graphene Sheets. <i>ACS Nano</i> , 2016 , 10, 10953-10959	16.7	293
105	Controlled synthesis of NiCo ₂ S ₄ nanostructured arrays on carbon fiber paper for high-performance pseudocapacitors. <i>Nano Energy</i> , 2015 , 16, 71-80	17.1	292
104	Nanoscale Surface Modification of Lithium-Rich Layered-Oxide Composite Cathodes for Suppressing Voltage Fade. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13058-62	16.4	277
103	Washing effects on electrochemical performance and storage characteristics of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ as cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013 , 222, 318-325	8.9	258
102	A tailored double perovskite nanofiber catalyst enables ultrafast oxygen evolution. <i>Nature Communications</i> , 2017 , 8, 14586	17.4	251
101	V ₅ S ₈ /graphite hybrid nanosheets as a high rate-capacity and stable anode material for sodium-ion batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 107-113	35.4	219
100	PPy-encapsulated SnS Nanosheets Stabilized by Defects on a TiO Support as a Durable Anode Material for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 811-815	16.4	209
99	Role of V ₂ O ₅ coating on LiNiO ₂ -based materials for lithium ion battery. <i>Journal of Power Sources</i> , 2014 , 245, 183-193	8.9	192
98	Construction of MoS ₂ /C Hierarchical Tubular Heterostructures for High-Performance Sodium Ion Batteries. <i>ACS Nano</i> , 2018 , 12, 12578-12586	16.7	188
97	Enhanced electrochemical properties of lithium-reactive V ₂ O ₅ coated on the LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ cathode material for lithium ion batteries at 60 °C. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1284-1288	13	187
96	A New rGO-Overcoated Sb ₂ Se ₃ Nanorods Anode for Na ⁺ Battery: In Situ X-Ray Diffraction Study on a Live Sodiation/Desodiation Process. <i>Advanced Functional Materials</i> , 2017 , 27, 1606242	15.6	184
95	Rational Design of Nickel Hydroxide-Based Nanocrystals on Graphene for Ultrafast Energy Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1702247	21.8	172
94	Probing the Charge Storage Mechanism of a Pseudocapacitive MnO ₂ Electrode Using in Operando Raman Spectroscopy. <i>Chemistry of Materials</i> , 2015 , 27, 6608-6619	9.6	141
93	Chemically activated hollow carbon nanospheres as a high-performance anode material for potassium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24317-24323	13	129
92	In situ X-ray diffraction characterization of NiSe ₂ as a promising anode material for sodium ion batteries. <i>Journal of Power Sources</i> , 2017 , 343, 483-491	8.9	125

91	A high-energy, long cycle-life hybrid supercapacitor based on graphene composite electrodes. <i>Energy Storage Materials</i> , 2017 , 7, 32-39	19.4	124
90	MoS ₂ encapsulated SnO ₂ -SnS/C nanosheets as a high performance anode material for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2017 , 316, 393-400	14.7	115
89	Self-Stabilized and Strongly Adhesive Supramolecular Polymer Protective Layer Enables Ultrahigh-Rate and Large-Capacity Lithium-Metal Anode. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2055-2060	16.4	113
88	Nitrogen-doped bamboo-like carbon nanotubes as anode material for high performance potassium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15162-15169	13	113
87	Enhanced electrochemical properties of a LiNiO ₂ -based cathode material by removing lithium residues with (NH ₄) ₂ HPO ₄ . <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11691-11696	13	110
86	A robust sulfur host with dual lithium polysulfide immobilization mechanism for long cycle life and high capacity Li-S batteries. <i>Energy Storage Materials</i> , 2019 , 16, 344-353	19.4	109
85	MoS ₂ -covered SnS nanosheets as anode material for lithium-ion batteries with high capacity and long cycle life. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 592-598	13	109
84	Upcycling of Electroplating Sludge into Ultrafine Sn@C Nanorods with Highly Stable Lithium Storage Performance. <i>Nano Letters</i> , 2019 , 19, 1860-1866	11.5	104
83	Synthesis of Mg-doped LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ oxide and its electrochemical behavior in high-voltage lithium-ion batteries. <i>Ceramics International</i> , 2014 , 40, 13223-13230	5.1	102
82	The enhanced electrochemical performance of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode materials by low temperature fluorine substitution. <i>Electrochimica Acta</i> , 2013 , 95, 112-118	6.7	102
81	A modified LiF coating process to enhance the electrochemical performance characteristics of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ cathode materials. <i>Materials Letters</i> , 2013 , 110, 4-9	3.3	92
80	N/S codoped carbon microboxes with expanded interlayer distance toward excellent potassium storage. <i>Chemical Engineering Journal</i> , 2019 , 358, 1147-1154	14.7	84
79	A low temperature fluorine substitution on the electrochemical performance of layered LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ F _z cathode materials. <i>Electrochimica Acta</i> , 2013 , 92, 1-8	6.7	81
78	Surface Modification of NaV(PO) by Nitrogen and Sulfur Dual-Doped Carbon Layer with Advanced Sodium Storage Property. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13151-13162	9.5	79
77	In situ X-ray diffraction characterization of NbS ₂ nanosheets as the anode material for sodium ion batteries. <i>Journal of Power Sources</i> , 2016 , 325, 410-416	8.9	79
76	Surface modification of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ with conducting polypyrrole. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2619-2624	2.6	77
75	Rational Design of TiO-TiO Heterostructure/Polypyrrole as a Multifunctional Sulfur Host for Advanced Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5055-5063	9.5	69
74	One-step synthesis of architectural Ni ₃ S ₂ nanosheet-on-nanorods array for use as high-performance electrodes for supercapacitors. <i>NPG Asia Materials</i> , 2016 , 8, e300-e300	10.3	69

73	Suppressing dendrite growth by a functional electrolyte additive for robust Li metal anodes. <i>Energy Storage Materials</i> , 2019 , 23, 701-706	19.4	67
72	Nanoscale gadolinium doped ceria (GDC) surface modification of Li-rich layered oxide as a high performance cathode material for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2018 , 334, 497-507	14.7	62
71	Beneficial effects of 1-propylphosphonic acid cyclic anhydride as an electrolyte additive on the electrochemical properties of LiNi _{0.5} Mn _{1.5} O ₄ cathode material. <i>Journal of Power Sources</i> , 2014 , 263, 231-238	8.9	61
70	Facile and efficient fabrication of Li ₃ PO ₄ -coated Ni-rich cathode for high-performance lithium-ion battery. <i>Applied Surface Science</i> , 2020 , 504, 144506	6.7	61
69	LiNiCoMnO with Controllable Morphology and Size for High Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25358-25368	9.5	59
68	Probing Structural Evolution and Charge Storage Mechanism of NiOH Electrode Materials using In Operando Resonance Raman Spectroscopy. <i>Advanced Science</i> , 2016 , 3, 1500433	13.6	58
67	Three-dimensional (3D) flower-like MoSe ₂ /N-doped carbon composite as a long-life and high-rate anode material for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2019 , 357, 226-236	14.7	58
66	A novel carbamide-assistant hydrothermal process for coating Al ₂ O ₃ onto LiMn _{1.5} Ni _{0.5} O ₄ particles used for cathode material of lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 313-319	5.7	56
65	MoS ₂ Decorated Fe ₃ O ₄ /Fe _{1-x} S _x @C Nanosheets as High-Performance Anode Materials for Lithium Ion and Sodium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4739-4745	8.3	55
64	Sb/C composite as a high-performance anode for sodium ion batteries. <i>Electrochimica Acta</i> , 2017 , 242, 159-164	6.7	52
63	Low-temperature synthesis of nano-micron Li ₄ Ti ₅ O ₁₂ by an aqueous mixing technique and its excellent electrochemical performance. <i>Journal of Power Sources</i> , 2012 , 202, 374-379	8.9	49
62	In situ X-ray diffraction investigation of CoSe ₂ anode for Na-ion storage: Effect of cut-off voltage on cycling stability. <i>Electrochimica Acta</i> , 2017 , 258, 1387-1396	6.7	49
61	Scalable synthesis of FeS nanoparticles encapsulated into N-doped carbon nanosheets as a high-performance sodium-ion battery anode. <i>Nanoscale</i> , 2019 , 11, 3773-3779	7.7	48
60	Hydrogen peroxide leaching of hydrolyzed titania residue prepared from mechanically activated Panzhihua ilmenite leached by hydrochloric acid. <i>International Journal of Mineral Processing</i> , 2011 , 98, 106-112		47
59	General and Scalable Fabrication of Core-Shell Metal Sulfides@C Anchored on 3D N-Doped Foam toward Flexible Sodium Ion Batteries. <i>Small</i> , 2019 , 15, e1903259	11	46
58	Synthesis and characterization of LiVPO ₄ F/C using precursor obtained through a soft chemical route with mechanical activation assist. <i>Electrochimica Acta</i> , 2013 , 91, 75-81	6.7	46
57	A renewable natural cotton derived and nitrogen/sulfur co-doped carbon as a high-performance sodium ion battery anode. <i>Materials Today Energy</i> , 2018 , 8, 37-44	7	44
56	SnS ₂ nanoparticles anchored on three-dimensional reduced graphene oxide as a durable anode for sodium ion batteries. <i>Chemical Engineering Journal</i> , 2018 , 339, 78-84	14.7	44

55	Facile synthesis of M-Sb (M = Ni, Sn) alloy nanoparticles embedded in N-doped carbon nanosheets as high performance anode materials for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2018 , 348, 653-660	14.7	44
54	Effect of fluorine on the electrochemical performance of spherical LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ cathode materials via a low temperature method. <i>Powder Technology</i> , 2013 , 237, 623-626	5.2	44
53	Lithiated zinc oxide nanorod arrays on copper current collectors for robust Li metal anodes. <i>Chemical Engineering Journal</i> , 2019 , 378, 122243	14.7	43
52	Exfoliated V ₅ S ₈ /graphite nanosheet with excellent electrochemical performance for enhanced lithium storage. <i>Chemical Engineering Journal</i> , 2017 , 320, 485-493	14.7	42
51	Synergistic Effect of Nitrogen and Sulfur Dual-Doping Endows TiO ₂ with Exceptional Sodium Storage Performance. <i>Advanced Energy Materials</i> , 2021 , 11, 2003037	21.8	42
50	The effect of composite organic acid (citric acid & tartaric acid) on microstructure and electrochemical properties of Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ Li-rich layered oxides. <i>Journal of Power Sources</i> , 2017 , 346, 31-39	8.9	40
49	Mn doped NaV ₃ (PO ₄) ₃ /C anode with high-rate and long cycle-life for sodium ion batteries. <i>Energy Storage Materials</i> , 2018 , 12, 153-160	19.4	36
48	Preparation of TiO ₂ from ilmenite using sulfuric acid decomposition of the titania residue combined with separation of Fe ³⁺ with EDTA during hydrolysis. <i>Advanced Powder Technology</i> , 2013 , 24, 60-67	4.6	35
47	A novel method to synthesize anatase TiO ₂ nanowires as an anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 3711-3715	5.7	35
46	Sn-MoS ₂ -C@C Microspheres as a Sodium-Ion Battery Anode Material with High Capacity and Long Cycle Life. <i>Chemistry - A European Journal</i> , 2017 , 23, 5051-5058	4.8	34
45	Fluorine-Doped Carbon Surface Modification of Li-Rich Layered Oxide Composite Cathodes for High Performance Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16399-16411	8.3	34
44	Characterization of spherical-shaped Li ₄ Ti ₅ O ₁₂ prepared by spray drying. <i>Electrochimica Acta</i> , 2012 , 78, 331-339	6.7	33
43	Uniform Li deposition regulated via three-dimensional polyvinyl alcohol nanofiber networks for effective Li metal anodes. <i>Nanoscale</i> , 2018 , 10, 10018-10024	7.7	32
42	A Scalable Approach for Dendrite-Free Alkali Metal Anodes via Room-Temperature Facile Surface Fluorination. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4962-4968	9.5	32
41	Melamine-assisted synthesis of Fe ₃ N featuring highly reversible crystalline-phase transformation for ultrastable sodium ion storage. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6768-6775	13	31
40	Li ₄ Ti ₅ O ₁₂ /Reduced Graphene Oxide composite as a high rate capability material for lithium ion batteries. <i>Solid State Ionics</i> , 2013 , 236, 30-36	3.3	31
39	Sb@C/expanded graphite as high-performance anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 744, 481-486	5.7	29
38	Spherical Li ₄ Ti ₅ O ₁₂ synthesized by spray drying from a different kind of solution. <i>Journal of Alloys and Compounds</i> , 2012 , 540, 39-45	5.7	29

37	Direct synthesis of FeS/N-doped carbon composite for high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24702-24708	13	29
36	Enhanced electrochemical performance in LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ cathode material: Resulting from Mn-surface-modification using a facile oxidizing/boating method. <i>Materials Letters</i> , 2014 , 115, 49-52	3.3	25
35	Preparation and characterization of spinel Li ₄ Ti ₅ O ₁₂ anode material from industrial titanyl sulfate solution. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 596-601	5.7	25
34	One-step facile synthesis of porous Co ₃ O ₄ microspheres as anode materials for lithium-ion batteries. <i>Materials Letters</i> , 2014 , 120, 73-75	3.3	23
33	N/S Co-doped Carbon Derived From Cotton as High Performance Anode Materials for Lithium Ion Batteries. <i>Frontiers in Chemistry</i> , 2018 , 6, 78	5	22
32	High performance LiV ₃ O ₈ cathode materials prepared by spray-drying method. <i>Electrochimica Acta</i> , 2012 , 71, 206-212	6.7	22
31	Preparation of TiO ₂ nanosheets and Li ₄ Ti ₅ O ₁₂ anode material from natural ilmenite. <i>Powder Technology</i> , 2011 , 213, 192-198	5.2	22
30	Effect of sintering temperature on cycling performance and rate performance of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ . <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 4023-4029	3.3	20
29	Exploration of VPO as a new anode material for sodium-ion batteries. <i>Chemical Communications</i> , 2017 , 53, 12696-12699	5.8	19
28	Nanoscale Surface Modification of Lithium-Rich Layered-Oxide Composite Cathodes for Suppressing Voltage Fade. <i>Angewandte Chemie</i> , 2015 , 127, 13250-13254	3.6	19
27	Self-Stabilized and Strongly Adhesive Supramolecular Polymer Protective Layer Enables Ultrahigh-Rate and Large-Capacity Lithium-Metal Anode. <i>Angewandte Chemie</i> , 2020 , 132, 2071-2076	3.6	19
26	PPy-encapsulated SnS ₂ Nanosheets Stabilized by Defects on a TiO ₂ Support as a Durable Anode Material for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 821-825	3.6	18
25	Ni-polymer gels-derived hollow NiSb alloy confined in 3D interconnected carbon as superior sodium-ion battery anode. <i>Electrochimica Acta</i> , 2018 , 269, 225-231	6.7	16
24	Grain-Boundary-Rich Artificial SEI Layer for High-Rate Lithium Metal Anodes. <i>Advanced Functional Materials</i> , 2107249	15.6	16
23	Inexpensive synthesis of anatase TiO ₂ nanowires by a novel method and its electrochemical characterization. <i>Materials Letters</i> , 2011 , 65, 1514-1517	3.3	15
22	Study on ultrafast synthesis of LiV ₃ O ₈ cathode material for lithium-ion batteries. <i>Materials Letters</i> , 2012 , 76, 8-10	3.3	14
21	Synthesis and characterization of Li ₄ Ti ₅ O ₁₂ /graphene composite as anode material with enhanced electrochemical performance. <i>Ionics</i> , 2013 , 19, 717-723	2.7	14
20	Synthesis and electrochemical performance of xLi ₂ MnO ₃ [(1-x)LiMn _{0.5} Ni _{0.4} Co _{0.1} O ₂] for lithium ion battery. <i>Powder Technology</i> , 2013 , 235, 158-162	5.2	14

19	One-pot synthesis of SnS/C nanocomposites on carbon paper as a high-performance free-standing anode for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 779, 67-73	5.7	14
18	Three-dimensional N-doped graphene as anode material with superior cycle stability for sodium ion batteries. <i>Materials Letters</i> , 2017 , 202, 123-126	3.3	13
17	Facile synthesis of ultrathin nickel hydroxides nanoflakes on nickel foam for high-performance supercapacitors. <i>Materials Letters</i> , 2015 , 138, 5-8	3.3	13
16	Convenient fabrication of a core-shell Sn@TiO anode for lithium storage from tinplate electroplating sludge. <i>Chemical Communications</i> , 2020 , 56, 10187-10190	5.8	10
15	Lithiophilic amide-functionalized carbon nanotube skeleton for dendrite-free lithium metal anodes. <i>Chemical Engineering Journal</i> , 2021 , 414, 128698	14.7	10
14	Sulfuryl chloride as a functional additive towards dendrite-free and long-life Li metal anodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25003-25009	13	10
13	Phenoxy Radical-Induced Formation of Dual-Layered Protection Film for High-Rate and Dendrite-Free Lithium-Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26718-26724	16.4	10
12	Interfacial effects on electrical conductivity in ultrafine-grained Sm _{0.2} Ce _{0.8} O ₂ -Electrolytes fabricated by a two-step sintering process. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 11823-11829	6.7	9
11	Composites of Single/Double Perovskites as Cathodes for Solid Oxide Fuel Cells. <i>Energy Technology</i> , 2016 , 4, 804-808	3.5	9
10	An inorganic-rich SEI induced by LiNO additive for a stable lithium metal anode in carbonate electrolyte. <i>Chemical Communications</i> , 2021 , 57, 9232-9235	5.8	7
9	Nitrogen-doped carbon decorated TiO ₂ /Ti ₃ C ₂ T MXene composites as anode material for high-performance sodium-ion batteries. <i>Surface and Coatings Technology</i> , 2021 , 422, 127568	4.4	6
8	Oxygen-rich graphene vertically grown on 3D N-Doped carbon foam for high-performance sodium ion batteries. <i>Journal of Power Sources</i> , 2022 , 530, 231292	8.9	5
7	Self-assembled MoS ₂ /C Nanoflowers with Expanded Interlayer Spacing as a High-Performance Anode for Sodium Ion Batteries. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 39, 240-240	3.2	4
6	Facile synthesis of uniform N-doped carbon-coated TiO hollow spheres with enhanced lithium storage performance. <i>Nanoscale</i> , 2021 , 13, 2368-2372	7.7	4
5	Constructing MoO ₂ @MoS ₂ heterostructures anchored on graphene nanosheets as a high-performance anode for sodium ion batteries. <i>Electrochimica Acta</i> , 2021 , 388, 138612	6.7	4
4	Sodium Ion Batteries: A New rGO-Overcoated Sb ₂ Se ₃ Nanorods Anode for Na ⁺ Battery: In Situ X-Ray Diffraction Study on a Live Sodiation/Desodiation Process (Adv. Funct. Mater. 13/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	3
3	5LiFe _{0.9} Mn _{0.1} PO ₄ /Li ₃ V ₂ (PO ₄) ₃ /C composites as high capacity cathode materials for lithium-ion batteries. <i>Applied Surface Science</i> , 2019 , 483, 1166-1173	6.7	2
2	Phenoxy Radical-Induced Formation of Dual-Layered Protection Film for High-Rate and Dendrite-Free Lithium-Metal Anodes. <i>Angewandte Chemie</i> , 2021 , 133, 26922	3.6	2

- 1 A Covalent Heterostructure of Metal Phosphide Quantum Dots Anchored in N, P Co-doped Carbon Nanocapsules for Fast and Durable Lithium Storage. *ACS Applied Materials & Interfaces*, **2021**, 13, 53965-53973 9.5 1