

Yun-Xiao Wang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Novel Li ₃ VO ₄ Nanostructures Grown in Highly Efficient Microwave Irradiation Strategy and Their In Situ Lithium Storage Mechanism. <i>Advanced Science</i> , 2022, 9, e2103493.	5.6	23
2	Recent Advances in Seawater Electrolysis. <i>Catalysts</i> , 2022, 12, 123.	1.6	26
3	Electrolytes/Interphases: Enabling Distinguishable Sulfur Redox Processes in Room-Temperature Sodium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	29
4	Continuous Carbon Channels Enable Full Na-ion Accessibility for Superior Room-Temperature Na-S Batteries. <i>Advanced Materials</i> , 2022, 34, e2108363.	11.1	49
5	Streamline Sulfur Redox Reactions to Achieve Efficient Room-Temperature Sodium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	38
6	Streamline Sulfur Redox Reactions to Achieve Efficient Room-Temperature Sodium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
7	Highly efficient and selective electrocatalytic hydrogen peroxide production on Co-O-C active centers on graphene oxide. <i>Communications Chemistry</i> , 2022, 5, .	2.0	33
8	Two-core shell configuration for bimetal selenides toward fast sodium storage within broadened voltage windows. , 2022, 4, 586-597.		10
9	Efficient separators with fast Li-ion transfer and high polysulfide entrapment for superior lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021, 408, 127348.	6.6	25
10	Hard Carbon Anodes: Fundamental Understanding and Commercial Perspectives for Na-ion Batteries beyond Li-ion and K-ion Counterparts. <i>Advanced Energy Materials</i> , 2021, 11, .	10.2	282
11	Sustainable S cathodes with synergic electrocatalysis for room-temperature Na-S batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 566-574.	5.2	39
12	Green energy application technology of litchi pericarp-derived carbon material with high performance. <i>Journal of Cleaner Production</i> , 2021, 286, 124960.	4.6	18
13	Materials engineering for adsorption and catalysis in room-temperature Na-S batteries. <i>Energy and Environmental Science</i> , 2021, 14, 3757-3795.	15.6	62
14	Tunable Electrocatalytic Behavior of Sodiated MoS ₂ Active Sites toward Efficient Sulfur Redox Reactions in Room-Temperature Na-S Batteries. <i>Advanced Materials</i> , 2021, 33, e2100229.	11.1	66
15	Carbonaceous Hosts for Sulfur Cathode in Alkali-Metal/S (Alkali Metal = Lithium, Sodium, Potassium) Batteries. <i>Small</i> , 2021, 17, e2006504.	5.2	17
16	Atomic Cobalt Vacancy-Cluster Enabling Optimized Electronic Structure for Efficient Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2101797.	7.8	26
17	Understanding Sulfur Redox Mechanisms in Different Electrolytes for Room-Temperature Na-S Batteries. <i>Nano-Micro Letters</i> , 2021, 13, 121.	14.4	31
18	Atomic Structural Evolution of Single-Layer Pt Clusters as Efficient Electrocatalysts. <i>Small</i> , 2021, 17, e2100732.	5.2	26

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19	Architecting Freestanding Sulfur Cathodes for Superior Room-Temperature Na-S Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102280.	7.8	46
20	Boosting electrochemical kinetics of S cathodes for room temperature Na/S batteries. <i>Matter</i> , 2021, 4, 1768-1800.	5.0	39
21	Thickness-independent scalable high-performance Li-S batteries with high areal sulfur loading via electron-enriched carbon framework. <i>Nature Communications</i> , 2021, 12, 4519.	5.8	139
22	Germanene Nanosheets: Achieving Superior Sodium-Ion Storage via Pseudointercalation Reactions. <i>Small Structures</i> , 2021, 2, 2100041.	6.9	20
23	Electrochemical release of catalysts in nanoreactors for solid sulfur redox reactions in room-temperature sodium-sulfur batteries. <i>Cell Reports Physical Science</i> , 2021, 2, 100539.	2.8	20
24	Atomically dispersed S-Fe-N ₄ for fast kinetics sodium-sulfur batteries via a dual function mechanism. <i>Cell Reports Physical Science</i> , 2021, 2, 100531.	2.8	31
25	Progress and Challenges for All-Solid-State Sodium Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000057.	2.8	49
26	Activating Inert Surface Pt Single Atoms via Subsurface Doping for Oxygen Reduction Reaction. <i>Nano Letters</i> , 2021, 21, 7970-7978.	4.5	33
27	Remedies for Polysulfide Dissolution in Room-Temperature Sodium-Sulfur Batteries. <i>Advanced Materials</i> , 2020, 32, e1903952.	11.1	96
28	Manipulating 2D Few-Layer Metal Sulfides as Anode Towards Enhanced Sodium-Ion Batteries and Supercaps, 2020, 3, 236-253.	2.4	16
29	Effect of ether-based electrolyte composition on the lithium storage performance of copper sulfide. <i>Electrochimica Acta</i> , 2020, 335, 135662.	2.6	3
30	High-performance room-temperature sodium-sulfur battery enabled by electrocatalytic sodium polysulfides full conversion. <i>Energy and Environmental Science</i> , 2020, 13, 562-570.	15.6	163
31	Facile and reversible digestion and regeneration of zirconium-based metal-organic frameworks. <i>Communications Chemistry</i> , 2020, 3, .	2.0	35
32	General Synthesis of Single-Atom Catalysts for Hydrogen Evolution Reactions and Room-Temperature Na-S Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22171-22178.	7.2	80
33	Multiregion Janus-Featured Cobalt Phosphide-Cobalt Composite for Highly Reversible Room-Temperature Sodium-Sulfur Batteries. <i>ACS Nano</i> , 2020, 14, 10284-10293.	7.3	81
34	Electrodeposited binder-free Sb/NiSb anode of sodium-ion batteries with excellent cycle stability and rate capability and new insights into its reaction mechanism by operando XRD analysis. <i>Nano Energy</i> , 2020, 77, 105123.	8.2	51
35	Highly efficient Co ₃ O ₄ /Co@NCs bifunctional oxygen electrocatalysts for long life rechargeable Zn-air batteries. <i>Nano Energy</i> , 2020, 77, 105200.	8.2	71
36	General Synthesis of Single-Atom Catalysts for Hydrogen Evolution Reactions and Room-Temperature Na-S Batteries. <i>Angewandte Chemie</i> , 2020, 132, 22355-22362.	1.6	62

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37	Alkali-Metal Sulfide as Cathodes toward Safe and High-Capacity Metal (M = Li, Na, K) Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001764.	10.2	29
38	Tailoring MXene-Based Materials for Sodium-Ion Storage: Synthesis, Mechanisms, and Applications. <i>Electrochemical Energy Reviews</i> , 2020, 3, 766-792.	13.1	86
39	Sodium-Sulfur Batteries: Remedies for Polysulfide Dissolution in Room-Temperature Sodium-Sulfur Batteries (<i>Adv. Mater.</i> 18/2020). <i>Advanced Materials</i> , 2020, 32, 2070145.	11.1	2
40	Layered mesoporous CoO/reduced graphene oxide with strong interfacial coupling as a high-performance anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 843, 156050.	2.8	32
41	Spontaneous self-intercalation of copper atoms into transition metal dichalcogenides. <i>Science Advances</i> , 2020, 6, eaay4092.	4.7	67
42	Super Kinetically Pseudocapacitive MnCo ₂ S ₄ Nanourchins toward High-Rate and Highly Stable Sodium-Ion Storage. <i>Advanced Functional Materials</i> , 2020, 30, 1909702.	7.8	47
43	A High-Kinetics Sulfur Cathode with a Highly Efficient Mechanism for Superior Room-Temperature Na-S Batteries. <i>Advanced Materials</i> , 2020, 32, e1906700.	11.1	126
44	S/N-doped carbon nanofibers affording Fe ₇ S ₈ particles with superior sodium storage. <i>Journal of Power Sources</i> , 2020, 451, 227790.	4.0	43
45	Self-assembling RuO ₂ nanogranulates with few carbon layers as an interconnected nanoporous structure for lithium-oxygen batteries. <i>Chemical Communications</i> , 2020, 56, 7253-7256.	2.2	5
46	Surface Modification of Fe ₇ S ₈ /C Anode via Ultrathin Amorphous TiO ₂ Layer for Enhanced Sodium Storage Performance. <i>Small</i> , 2020, 16, e2000745.	5.2	28
47	Electrocatalyzing S Cathodes via Multisulfophilic Sites for Superior Room-Temperature Sodium-Sulfur Batteries. <i>ACS Nano</i> , 2020, 14, 7259-7268.	7.3	100
48	New monatomic layer clusters for advanced catalysis materials. <i>Science China Materials</i> , 2019, 62, 149-153.	3.5	12
49	Morphology tuning of inorganic nanomaterials grown by precipitation through control of electrolytic dissociation and supersaturation. <i>Nature Chemistry</i> , 2019, 11, 695-701.	6.6	86
50	Developments and Perspectives on Emerging High-Energy-Density Sodium-Metal Batteries. <i>CheM</i> , 2019, 5, 2547-2570.	5.8	110
51	Atomic-Local Environments of Single-Atom Catalysts: Synthesis, Electronic Structure, and Activity. <i>Advanced Energy Materials</i> , 2019, 9, 1900722.	10.2	128
52	Highly Electrochemically Reversible Mesoporous Na ₂ FePO ₄ /F/C as Cathode Material for High-Performance Sodium-Ion Batteries. <i>Small</i> , 2019, 15, e1903723.	5.2	38
53	Electrodeposited Binder-Free Antimony-Iron-Phosphorous Composites as Advanced Anodes for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 5420-5427.	1.7	6
54	Targeted Synergy between Adjacent Co Atoms on Graphene Oxide as an Efficient New Electrocatalyst for Li-CO ₂ Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1904206.	7.8	86

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55	Nickel sulfide nanocrystals on nitrogen-doped porous carbon nanotubes with high-efficiency electrocatalysis for room-temperature sodium-sulfur batteries. <i>Nature Communications</i> , 2019, 10, 4793.	5.8	147
56	General "Electron-Assisted Strategy for Ir, Pt, Ru, Pd, Fe, Ni Single-Atom Electrocatalysts with Bifunctional Active Sites for Highly Efficient Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11868-11873.	7.2	229
57	General "Electron-Assisted Strategy for Ir, Pt, Ru, Pd, Fe, Ni Single-Atom Electrocatalysts with Bifunctional Active Sites for Highly Efficient Water Splitting. <i>Angewandte Chemie</i> , 2019, 131, 11994-11999.	1.6	28
58	Schwefel-basierte Elektroden mit Mehrelektronenreaktionen für Raumtemperatur-Natriumionenspeicherung. <i>Angewandte Chemie</i> , 2019, 131, 18490-18504.	1.6	9
59	Sulfur-Based Electrodes that Function via Multielectron Reactions for Room-Temperature Sodium-Ion Storage. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18324-18337.	7.2	69
60	An electrodeposition strategy for the controllable and cost-effective fabrication of Sb-Fe-P anodes for Li ion batteries. <i>Electrochimica Acta</i> , 2019, 309, 469-476.	2.6	11
61	In Situ Formation of Co ₉ S ₈ Nanoclusters in Sulfur-Doped Carbon Foam as a Sustainable and High-Rate Sodium-Ion Anode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19218-19226.	4.0	51
62	Engineering the Distribution of Carbon in Silicon Oxide Nanospheres at the Atomic Level for Highly Stable Anodes. <i>Angewandte Chemie</i> , 2019, 131, 6741-6745.	1.6	16
63	Engineering the Distribution of Carbon in Silicon Oxide Nanospheres at the Atomic Level for Highly Stable Anodes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6669-6673.	7.2	209
64	The Quasi-Pt Allotrope Catalyst: Hollow PtCo@single-Atom Pt ₁ on Nitrogen-Doped Carbon toward Superior Oxygen Reduction. <i>Advanced Functional Materials</i> , 2019, 29, 1807340.	7.8	97
65	Fabrication of Superior Single-Atom Catalysts toward Diverse Electrochemical Reactions. <i>Small Methods</i> , 2019, 3, 1800497.	4.6	99
66	Lotus rhizome-like S/N-C with embedded WS ₂ for superior sodium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25932-25943.	5.2	39
67	TiO ₂ -Coated Interlayer-Expanded MoSe ₂ /Phosphorus-Doped Carbon Nanospheres for Ultrafast and Ultralong Cycling Sodium Storage. <i>Advanced Science</i> , 2019, 6, 1801222.	5.6	80
68	Sodium Ion Storage: TiO ₂ -Coated Interlayer-Expanded MoSe ₂ /Phosphorus-Doped Carbon Nanospheres for Ultrafast and Ultralong Cycling Sodium Storage (<i>Adv. Sci.</i> 1/2019). <i>Advanced Science</i> , 2019, 6, 1970005.	5.6	1
69	Long-Life Room-Temperature Sodium-Sulfur Batteries by Virtue of Transition-Metal-Nanocluster-Sulfur Interactions. <i>Angewandte Chemie</i> , 2019, 131, 1498-1502.	1.6	63
70	Long-Life Room-Temperature Sodium-Sulfur Batteries by Virtue of Transition-Metal-Nanocluster-Sulfur Interactions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1484-1488.	7.2	165
71	Ordered platinum-bismuth intermetallic clusters with Pt-skin for a highly efficient electrochemical ethanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5214-5220.	5.2	48
72	Defect Sites-Rich Porous Carbon with Pseudocapacitive Behaviors as an Ultrafast and Long-Term Cycling Anode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9353-9361.	4.0	91

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73	Nanoconfined SnS in 3D interconnected macroporous carbon as durable anodes for lithium/sodium ion batteries. <i>Carbon</i> , 2018, 134, 222-231.	5.4	115
74	A Comprehensive Review on Controlling Surface Composition of Pt-Based Bimetallic Electrocatalysts. <i>Advanced Energy Materials</i> , 2018, 8, 1703597.	10.2	123
75	Atomic cobalt as an efficient electrocatalyst in sulfur cathodes for superior room-temperature sodium-sulfur batteries. <i>Nature Communications</i> , 2018, 9, 4082.	5.8	305
76	Self-Assembling Hollow Carbon Nanobeads into Double-Shell Microspheres as a Hierarchical Sulfur Host for Sustainable Room-Temperature Sodium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20422-20428.	4.0	65
77	Atomically thin Co ₃ O ₄ nanosheet-coated stainless steel mesh with enhanced capacitive Na ⁺ storage for high-performance sodium-ion batteries. <i>2D Materials</i> , 2017, 4, 015022.	2.0	44
78	Room-Temperature Sodium-Sulfur Batteries: A Comprehensive Review on Research Progress and Cell Chemistry. <i>Advanced Energy Materials</i> , 2017, 7, 1602829.	10.2	270
79	Amorphous TiO ₂ Shells: A Vital Elastic Buffering Layer on Silicon Nanoparticles for High-Performance and Safe Lithium Storage. <i>Advanced Materials</i> , 2017, 29, 1700523.	11.1	342
80	Platinum-Cobalt Bimetallic Nanoparticles with Pt Skin for Electro-Oxidation of Ethanol. <i>ACS Catalysis</i> , 2017, 7, 892-895.	5.5	89
81	Superior Li storage anode based on novel Fe-Sn-P alloy prepared by electroplating. <i>Electrochimica Acta</i> , 2017, 247, 314-320.	2.6	16
82	In Situ Grown S Nanosheets on Cu Foam: An Ultrahigh Electroactive Cathode for Room-Temperature Na-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24446-24450.	4.0	65
83	Critical thickness of phenolic resin-based carbon interfacial layer for improving long cycling stability of silicon nanoparticle anodes. <i>Nano Energy</i> , 2016, 27, 255-264.	8.2	204
84	Nanoengineering to Achieve High Sodium Storage: A Case Study of Carbon Coated Hierarchical Nanoporous TiO ₂ Microfibers. <i>Advanced Science</i> , 2016, 3, 1600013.	5.6	47
85	Achieving High-Performance Room-Temperature Sodium-Sulfur Batteries With S@Interconnected Mesoporous Carbon Hollow Nanospheres. <i>Journal of the American Chemical Society</i> , 2016, 138, 16576-16579.	6.6	280
86	Germanium Nanograin Decoration on Carbon Shell: Boosting Lithium-Storage Properties of Silicon Nanoparticles. <i>Advanced Functional Materials</i> , 2016, 26, 7800-7806.	7.8	68
87	Nanoparticles: Germanium Nanograin Decoration on Carbon Shell: Boosting Lithium-Storage Properties of Silicon Nanoparticles (<i>Adv. Funct. Mater.</i> 43/2016). <i>Advanced Functional Materials</i> , 2016, 26, 7799-7799.	7.8	0
88	Silicon/Mesoporous Carbon/Crystalline TiO ₂ Nanoparticles for Highly Stable Lithium Storage. <i>ACS Nano</i> , 2016, 10, 10524-10532.	7.3	230
89	Chemically Bonded Sn Nanoparticles Using the Crosslinked Epoxy Binder for High Energy-Density Li Ion Battery. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600662.	1.9	17
90	Rapid synthesis of Fe ₂ O ₃ /rGO nanocomposites by microwave autoclave as superior anodes for sodium-ion batteries. <i>Journal of Power Sources</i> , 2015, 280, 107-113.	4.0	123

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91	Yolk-shell silicon-mesoporous carbon anode with compact solid electrolyte interphase film for superior lithium-ion batteries. <i>Nano Energy</i> , 2015, 18, 133-142.	8.2	238
92	Uniform yolk-shell iron sulfide@carbon nanospheres for superior sodium-iron sulfide batteries. <i>Nature Communications</i> , 2015, 6, 8689.	5.8	374
93	Reversible sodium storage via conversion reaction of a MoS ₂ @C composite. <i>Chemical Communications</i> , 2014, 50, 10730-10733.	2.2	105
94	High-Performance Sodium-Ion Batteries and Sodium-Ion Pseudocapacitors Based on MoS ₂ /Graphene Composites. <i>Chemistry - A European Journal</i> , 2014, 20, 9607-9612.	1.7	192
95	Ultrafine SnO ₂ nanoparticle loading onto reduced graphene oxide as anodes for sodium-ion batteries with superior rate and cycling performances. <i>Journal of Materials Chemistry A</i> , 2014, 2, 529-534.	5.2	297
96	A facile route to synthesize transition metal oxide/reduced graphene oxide composites and their lithium storage performance. <i>RSC Advances</i> , 2013, 3, 16597.	1.7	61
97	The electrochemical properties of high-capacity sulfur/reduced graphene oxide with different electrolyte systems. <i>Journal of Power Sources</i> , 2013, 244, 240-245.	4.0	32
98	Nanocomposites of silicon and carbon derived from coal tar pitch: Cheap anode materials for lithium-ion batteries with long cycle life and enhanced capacity. <i>Electrochimica Acta</i> , 2013, 93, 213-221.	2.6	93
99	Reduced graphene oxide with superior cycling stability and rate capability for sodium storage. <i>Carbon</i> , 2013, 57, 202-208.	5.4	491
100	A hybrid electrolyte energy storage device with high energy and long life using lithium anode and MnO ₂ nanoflake cathode. <i>Electrochemistry Communications</i> , 2013, 31, 35-38.	2.3	24
101	Facile synthesis of a interleaved expanded graphite-embedded sulphur nanocomposite as cathode of Li-S batteries with excellent lithium storage performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 4744.	6.7	195
102	Lithium storage performance and interfacial processes of three dimensional porous Sn-Co alloy electrodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2011, 56, 5979-5987.	2.6	62
103	Fabrication and electrochemical properties of the Sn-Ni-P alloy rods array electrode for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2010, 12, 1226-1229.	2.3	28
104	Recent advanced skeletons in sodium metal anodes. <i>Energy and Environmental Science</i> , 0, , .	15.6	69