Xian-you Wang

List of Publications by Year in descending order

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443 papers	17,528 citations	12303 69 h-index	38300 95 g-index
446 all docs	446 docs citations	446 times ranked	13671 citing authors

#	Article	IF	Citations
1	Yolkâ€“Shell P3â€Type K_{0.5}[Mn_{0.85}Ni_{0.1}Co_{0.05}]O₂: A Lowâ€Cost Cathode for Potassiumâ€Ion Batteries. Energy and Environmental Materials, 2022, 5, 261-269.	7.3	36
2	Towards high-performance lithium-sulfur battery: Investigation on the capability of metalloid to regulate polysulfides. Chemical Engineering Journal, 2022, 430, 132677.	6.6	32
3	Creating anion defects on hollow CoxNi1-xO concave with dual binding sites as high-efficiency sulfur reduction reaction catalyst. Chemical Engineering Journal, 2022, 427, 132024.	6.6	13
4	Molten salt synthesis of KCl-preintercalated C3N4 nanosheets with abundant pyridinic-N as a superior anode with 10ÂK cycles in lithium ion battery. Journal of Colloid and Interface Science, 2022, 606, 537-543.	5.0	20
5	Flexible SnTe/carbon nanofiber membrane as a free-standing anode for high-performance lithium-ion and sodium-ion batteries. Journal of Colloid and Interface Science, 2022, 605, 231-240.	5.0	32
6	Highly stable 3D hierarchical manganese sulfide multi-layer nanoflakes with excellent electrochemical performances for supercapacitor electrodes. Journal of Alloys and Compounds, 2022, 894, 162390.	2.8	22
7	Turning commercial MnO2 (â‰¥85Âwt%) into high-crystallized K+-doped LiMn2O4 cathode with superior structural stability by a low-temperature molten salt method. Journal of Colloid and Interface Science, 2022, 608, 1377-1383.	5.0	14
8	Study of ZIF-derived iron and nitrogen co-doped porous carbon supported Au nanoparticles as electrocatalyst for borohydride oxidation reaction. Ionics, 2022, 28, 849-858.	1.2	1
9	Unveiling the Role and Mechanism of Nb Doping and In Situ Carbon Coating on Improving Lithiumâ€Ion Storage Characteristics of Rodâ€Like Morphology FeF₃Â·0.33H₂O. Small, 2022, 18, e2105193.	5.2	10
10	Performance Improvement of Li₆PS₅Cl Solid Electrolyte Modified by Poly(ethylene oxide)-Based Composite Polymer Electrolyte with ZSM-5 Molecular Sieves. ACS Applied Energy Materials, 2022, 5, 2356-2365.	2.5	9
11	Regeneration and performance of LiFePO4 with Li2CO3 and FePO4 as raw materials recovered from spent LiFePO4 batteries. Materials Chemistry and Physics, 2022, 279, 125750.	2.0	29
12	Architecture and performance of Si/C microspheres assembled by nano-Si via electro-spray technology as stability-enhanced anodes for lithium-ion batteries. Journal of Alloys and Compounds, 2022, 903, 163940.	2.8	15
13	In-situ synthesis of highly graphitized and Fe/N enriched carbon tubes as catalytic mediums for promoting multi-step conversion of lithium polysulfides. Carbon, 2022, 192, 418-428.	5.4	28
14	Si/C composite embedded nano-Si in 3D porous carbon matrix and enwound by conductive CNTs as anode of lithium-ion batteries. Sustainable Materials and Technologies, 2022, 32, e00410.	1.7	19
15	Green preparation and supercapacitive behaviors of calcium carbide derived porous carbon based on solvent-free mechanochemical route. Journal of Energy Storage, 2022, 51, 104473.	3.9	13
16	Engineering a TiNb₂O₇-Based Electrocatalyst on a Flexible Self-Supporting Sulfur Cathode for Promoting Li-S Battery Performance. ACS Applied Materials & Interfaces, 2022, 14, 1157-1168.	4.0	12
17	High-Performance Gel Polymer Electrolyte with Self-Healing Capability for Lithium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 5267-5276.	2.5	14
18	Exploring the physicochemical role of Pd dopant in promoting Li-ion diffusion dynamics and storage performance of NbS₂ at the atomic scale. Physical Chemistry Chemical Physics, 2022, 24, 14877-14885.	1.3	2

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19	Interfacial Mn Vacancy for Li-Rich Mn-Based Oxide Cathodes. ACS Applied Materials & Interfaces, 2022, 14, 22161-22169.	4.0	4
20	A facile and high-effective oxygen defect engineering for improving electrochemical performance of lithium-rich manganese-based cathode materials. Journal of Power Sources, 2022, 536, 231456.	4.0	25
21	ZnFe₂O₄â€“Ni₅P₄ Mottâ€“Schottky Heterojunctions to Promote Kinetics for Advanced Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2022, 14, 23546-23557.	4.0	53
22	One-Step Synthesis of PVDF-HFP/PMMA-ZrO₂ Gel Polymer Electrolyte to Boost the Performance of a Lithium Metal Battery. ACS Applied Energy Materials, 2022, 5, 7317-7327.	2.5	15
23	Design and Preparation of NiCoMn Ternary Layered Double Hydroxides with a Hollow Dodecahedral Structure for High-Performance Asymmetric Supercapacitors. ACS Applied Energy Materials, 2022, 5, 6772-6782.	2.5	22
24	BiOI Nanopaper As a High-Capacity, Long-Life and Insertion-Type Anode for a Flexible Quasi-Solid-State Zn-Ion Battery. ACS Applied Materials & Interfaces, 2022, 14, 25516-25523.	4.0	19
25	In Situ Formed Protective Layer: Toward a More Stable Interface between the Lithium Metal Anode and Li₆PS₅Cl Solid Electrolyte. ACS Applied Energy Materials, 2022, 5, 8428-8436.	2.5	28
26	Improved high-voltage performance of LiNi0.87Co0.1Al0.03O2 by Li+-conductor coating. Chemical Engineering Journal, 2021, 407, 126442.	6.6	49
27	Semiâ€interpenetrating gel polymer electrolyte based on <scp>PVDFâ€HFP</scp> for lithium ion batteries. Journal of Applied Polymer Science, 2021, 138, 49993.	1.3	20
28	Highly Effective Direct Dehydrogenation of Propane to Propylene by Microwave Catalysis at Low Temperature over Coâ^'Sn/NC Microwave Catalyst. ChemCatChem, 2021, 13, 1009-1022.	1.8	15
29	Hollow urchin-like Al-doped Î±-MnO2â^'x as advanced sulfur host for high-performance lithium-sulfur batteries. Materials Letters, 2021, 285, 129135.	1.3	9
30	nHighly N/O co-doped carbon nanospheres for symmetric supercapacitors application with high specific energy. Journal of Energy Storage, 2021, 33, 102152.	3.9	17
31	Insight into the performance of the mesoporous structure SiOx nanoparticles anchored on carbon fibers as anode material of lithium-ion batteries. Journal of Electroanalytical Chemistry, 2021, 880, 114798.	1.9	20
32	Electrospun Na doped Li2TiSiO5/C nanofibers with outstanding lithium-storage performance. Applied Surface Science, 2021, 541, 148388.	3.1	8
33	Synthesis and electrochemical properties of P2â€“Na2/3[Ni1/3Mn2/3]O2 microspheres as cathode materials for sodium-ion batteries. Journal of Alloys and Compounds, 2021, 859, 157768.	2.8	13
34	Intercalation-type MoP and WP nanodots with abundant phase interface embedded in carbon microflower for enhanced Li storage and reaction kinetics. Electrochimica Acta, 2021, 365, 137354.	2.6	22
35	FeSe2 nanoparticle embedded in 3D honeycomb-like N-doped carbon architectures coupled with electrolytes engineering boost superior potassium ion storage. Electrochimica Acta, 2021, 366, 137381.	2.6	18
36	Carbon-supported Au-doped N-C-coated CoFe alloy nanocomposite electrocatalysts for BH4â^' electrooxidation. Ionics, 2021, 27, 1233-1241.	1.2	1

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37	N-Doped carbon-coated Co₂P-supported Au nanocomposite as the anode catalyst for borohydride electrooxidation. New Journal of Chemistry, 2021, 45, 14779-14788.	1.4	6
38	Titanium Glycolate Nanorods with Unsaturated Sites as Multifunctional Layers for Advanced Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2021, 4, 3670-3680.	2.5	5
39	Enhancing Reaction Kinetics of Sulfur-Containing Species in Li-S Batteries by Quantum Dot-Level Tin Oxide Hydroxide Catalysts. ACS Applied Energy Materials, 2021, 4, 4935-4944.	2.5	6
40	Nanosilverâ€Promoted Trimetallic Niâ€“Coâ€“Mn Perovskite Fluorides for Advanced Aqueous Supercabatteries with Pseudocapacitive Multielectrons Phase Conversion Mechanisms. Advanced Functional Materials, 2021, 31, 2101353.	7.8	28
41	Highly Effective Trapping-Conversion Interface Based on Nickel-Modified Versatile Carbon Skeleton Enabled High-Performance Liâ€“S Battery. ACS Applied Materials & Interfaces, 2021, 13, 16374-16383.	4.0	22
42	Suppressing the Voltage Decay Based on a Distinct Stacking Sequence of Oxygen Atoms for Li-Rich Cathode Materials. ACS Applied Materials & Interfaces, 2021, 13, 17639-17648.	4.0	27
43	One-Step Synthesis of ZnNCN Nanoparticles with Adjustable Composition for an Advanced Anode in Lithium Ion Battery. ACS Applied Energy Materials, 2021, 4, 4290-4296.	2.5	7
44	NiMoO₄ Nanosheets Anchored on Nï£¿S Doped Carbon Clothes with Hierarchical Structure as a Bidirectional Catalyst toward Accelerating Polysulfides Conversion for Lïï£¿S Battery. Advanced Functional Materials, 2021, 31, 2101285.	7.8	119
45	Tailoring bulk Li+ ion diffusion kinetics and surface lattice oxygen activity for high-performance lithium-rich manganese-based layered oxides. Energy Storage Materials, 2021, 37, 509-520.	9.5	55
46	Coreâ€“Shell Structure S@PPy/CB with High Electroconductibility to Effective Confinement Polysulfide Shuttle Effect for Advanced Lithiumâ€“Sulfur Batteries. Energy & Fuels, 2021, 35, 10181-10189.	2.5	5
47	Rational Design and Performance of Ansode Materials Based on Si/SiO_x/C Particles Anchored on Graphene Sheets. ACS Applied Energy Materials, 2021, 4, 4966-4975.	2.5	23
48	Zn, Co, and Fe Tridoped Nâ€“C Coreâ€“Shell Nanocages as the High-Efficiency Oxygen Reduction Reaction Electrocatalyst in Zincâ€“Air Batteries. ACS Applied Materials & Interfaces, 2021, 13, 28324-28333.	4.0	57
49	Porous nitrogen-doped Sn/C film as free-standing anodes for lithium ion batteries. Applied Surface Science, 2021, 551, 149246.	3.1	29
50	Li₂S In Situ Grown on Three-Dimensional Porous Carbon Architecture with Electron/Ion Channels and Dual Active Sites as Cathodes of Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2021, 13, 32968-32977.	4.0	11
51	Dual cationic modified high Ni-low co layered oxide cathode with a heteroepitaxial interface for high energy-density lithium-ion batteries. Chemical Engineering Journal, 2021, 416, 129118.	6.6	47
52	Rapid preparation and performances of garnet electrolyte with sintering aids for solid-state Liâ€“S battery. Ceramics International, 2021, 47, 18196-18204.	2.3	25
53	Multiple Strategies toward Advanced P2-Type Layered Na_xMnO₂ for Low-Cost Sodium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 8183-8192.	2.5	11
54	Ionic conductivity and interfacial stability of Li6PS5Clâ€“Li6.5La3Zr1.5Ta0.5O12 composite electrolyte. Journal of Solid State Electrochemistry, 2021, 25, 2513-2525.	1.2	7

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55	Structure Design and Performance of the Graphite/Silicon/Carbon Nanotubes/Carbon (GSCC) Composite as the Anode of a Li-Ion Battery. Energy & Fuels, 2021, 35, 13491-13498.	2.5	14
56	Improving the Cycling Stability of Li-Rich Mn-Based Cathodes through Surface Modification of VOPO₄. Energy & Fuels, 2021, 35, 14148-14156.	2.5	9
57	Fe, Co-bimetallic doped C3N4 with in-situ derived carbon tube as sulfur host for anchoring and catalyzing polysulfides in lithium-sulfur battery. Journal of Alloys and Compounds, 2021, 873, 159883.	2.8	21
58	Encapsulating Nanoscale Silicon inside Carbon Fiber as Flexible Self-Supporting Anode Material for Lithium-Ion Battery. ACS Applied Energy Materials, 2021, 4, 8529-8537.	2.5	24
59	Preparation and Performance of Eu³⁺-Doped BaSnF₄-Based Solid-State Electrolytes for Room-Temperature Fluoride-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 12978-12989.	3.2	5
60	Facile Preparation and Performances of Ni, Co, and Al Layered Double Hydroxides for Application in High-Performance Asymmetric Supercapacitors. ACS Applied Energy Materials, 2021, 4, 9384-9392.	2.5	19
61	Fully encapsulated Sb2Se3/Sb/C nanofibers: Towards high-rate, ultralong-lifespan lithium-ion batteries. Journal of Alloys and Compounds, 2021, 874, 159961.	2.8	14
62	Double bond effects induced by iron selenide as immobilized homogenous catalyst for efficient polysulfides capture. Chemical Engineering Journal, 2021, 421, 129770.	6.6	18
63	Enhancing the electrochemical performances of Li2S-based cathode through conductive interface design and addition of mixed conductive materials. Electrochimica Acta, 2021, 396, 139238.	2.6	2
64	A heterogeneous FeP-CoP electrocatalyst for expediting sulfur redox in high-specific-energy lithium-sulfur batteries. Electrochimica Acta, 2021, 397, 139275.	2.6	17
65	Multiple roles of titanium carbide in performance boosting: Mediator, anchor and electrocatalyst for polysulfides redox regulation. Chemical Engineering Journal, 2021, 426, 130744.	6.6	11
66	Catalytic-conversion behavior of MoS2 for polysulfides by nickel introduction and phosphorous-doping in advanced lithium-sulfur batteries. Chemical Engineering Journal, 2021, 425, 131640.	6.6	7
67	Exploring the Efficient Na/K Storage Mechanism and Vacancy Defect-Boosted Li⁺ Diffusion Based on VSe₂/MoSe₂ Heterostructure Engineering. ACS Applied Materials & Interfaces, 2021, 13, 2072-2080.	4.0	19
68	Investigation of ZIF-derived Co, N co-doped porous carbon-supported Au nanoparticles as an effective catalyst for borohydride electrooxidation. New Journal of Chemistry, 2021, 45, 21206-21214.	1.4	1
69	Potassium storage mechanism of In2S3/C nanofibers as the anode for potassium ion batteries. Electrochimica Acta, 2021, 400, 139461.	2.6	22
70	Boosting Electrochemical Performance of Lithium-Rich Manganese-Based Cathode Materials through a Dual Modification Strategy with Defect Designing and Interface Engineering. ACS Applied Materials & Interfaces, 2021, 13, 53974-53985.	4.0	28
71	Atomically Dispersed and O, N-Coordinated Mn-Based Catalyst for Promoting the Conversion of Polysulfides in Li₂S-Based Liâ€“S Battery. ACS Applied Materials & Interfaces, 2021, 13, 54113-54123.	4.0	9
72	Design and Facile Synthesis of Highly Efficient and Durable Bifunctional Oxygen Electrocatalyst Feâ€“N_x/C Nanocages for Rechargeable Zinc-Air Batteries. ACS Applied Materials & Interfaces, 2021, 13, 54032-54042.	4.0	14

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73	Efficient Mutual-Compensating Li-Loss Strategy toward Highly Conductive Garnet Ceramics for Li-Metal Solid-State Batteries. ACS Applied Materials & Interfaces, 2021, 13, 56054-56063.	4.0	19
74	Insight into the Supercapacitive Behavior of Activated Hollow Porous Carbon Spheres in Different Electrolytes. ACS Applied Energy Materials, 2021, 4, 13766-13775.	2.5	4
75	The effects of dual modification on structure and performance of P2-type layered oxide cathode for sodium-ion batteries. Chemical Engineering Journal, 2020, 384, 123234.	6.6	48
76	Synergetic restriction to polysulfides by hollow FePO4 nanospheres wrapped by reduced graphene oxide for lithiumâ€“sulfur battery. Electrochimica Acta, 2020, 329, 135135.	2.6	31
77	Free-standing ternary metallic sulphides/Ni/C-nanofiber anodes for high-performance lithium-ion capacitors. Journal of Energy Chemistry, 2020, 42, 108-115.	7.1	36
78	AlPO4-coated P2-type hexagonal Na0.7MnO2.05 as high stability cathode for sodium ion battery. Chemical Engineering Journal, 2020, 382, 122697.	6.6	20
79	Rapid sintering method for highly conductive Li7La3Zr2O12 ceramic electrolyte. Ceramics International, 2020, 46, 10917-10924.	2.3	146
80	Kinetically elevated redox conversion of polysulfides of lithium-sulfur battery using a separator modified with transition metals coordinated gâ€‘C3N4 with carbon-conjugated. Chemical Engineering Journal, 2020, 385, 123905.	6.6	93
81	Porous siliconâ€“grapheneâ€“carbon composite as high performance anode material for lithium ion batteries. Journal of Energy Storage, 2020, 27, 101075.	3.9	31
82	Preparation and application of poly(ethylene oxide)â€based all solidâ€state electrolyte with a walnutâ€like SiO₂ as nanoâ€fillers. Journal of Applied Polymer Science, 2020, 137, 48810.	1.3	29
83	SnF2-based fluoride ion electrolytes MSnF4 (MÂ= Ba, Pb) for the application of room-temperature solid-state fluoride ion batteries. Journal of Alloys and Compounds, 2020, 819, 152983.	2.8	27
84	Multifunctional reaction interfaces for capture and boost conversion of polysulfide in lithium-sulfur batteries. Electrochimica Acta, 2020, 334, 135658.	2.6	21
85	Electrospun SnSe/C nanofibers as binder-free anode for lithiumâ€“ion and sodium-ion batteries. Journal of Power Sources, 2020, 449, 227559.	4.0	96
86	TiNb2O7 nano-particle decorated carbon cloth as flexible self-support anode material in lithium-ion batteries. Electrochimica Acta, 2020, 332, 135469.	2.6	35
87	Lithium Sulfide-Embedded Three-Dimensional Heterogeneous Micro-/Mesoporous Interwoven Carbon Architecture as the Cathode of Lithiumâ€“Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 351-361.	3.2	10
88	LiMnPO4 nanoplates with optimal crystal orientation in situ anchored on the expanded graphite for high-rate and long-life lithium ion batteries. Electrochimica Acta, 2020, 359, 136945.	2.6	19
89	Polyaniline-Derived Carbon Heterostructure as Redox Mediator of Li₂S Oxidation and Polysulfide Immobilizer for High-Performance Lithiumâ€“Sulfur Cathode. ACS Sustainable Chemistry and Engineering, 2020, 8, 16659-16670.	3.2	11
90	Carbon supported Pdâ€“Sn nanoparticle eletrocatalysts for efficient borohydride electrooxidation. New Journal of Chemistry, 2020, 44, 13472-13479.	1.4	6

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91	Superior Na-Storage Properties of Nickel-Substituted Na2FeSiO4@C Microspheres Encapsulated with the In Situ-Synthesized Alveolation-like Carbon Matrix. ACS Applied Materials & Interfaces, 2020, 12, 34858-34872.	4.0	8
92	Development of coreâ€“shell structured Mo2C@BN as novel microwave catalysts for highly effective direct decomposition of H2S into H2 and S at low temperature. Catalysis Science and Technology, 2020, 10, 6769-6779.	2.1	7
93	Enhanced cycling stability of nickel-rich layered oxide by tantalum doping. Journal of Power Sources, 2020, 473, 228597.	4.0	71
94	Suppressing H2â€“H3 phase transition in high Niâ€“low Co layered oxide cathode material by dual modification. Journal of Materials Chemistry A, 2020, 8, 21306-21316.	5.2	112
95	The electrochemical storage mechanism of an In₂S₃/C nanofiber anode for high-performance Li-ion and Na-ion batteries. Nanoscale, 2020, 12, 20337-20346.	2.8	25
96	Band-Gap Engineering of FeF₃Â·0.33H₂O Nanosphere via Ni Doping as a High-Performance Lithium-Ion Battery Cathode. ACS Sustainable Chemistry and Engineering, 2020, 8, 15651-15660.	3.2	26
97	Electrospun Ta-doped TiO₂/C nanofibers as a high-capacity and long-cycling anode material for Li-ion and K-ion batteries. Journal of Materials Chemistry A, 2020, 8, 20666-20676.	5.2	44
98	Porous NiCo₂S₄ Nanoneedle Arrays with Highly Efficient Electrocatalysis Anchored on Carbon Cloths as Self-Supported Hosts for High-Loading Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2020, 12, 57975-57986.	4.0	25
99	The preparation and performances of lithium sulfide (Li2S)-oriented cathode composite via carbothermic reduction. Journal of Alloys and Compounds, 2020, 835, 155421.	2.8	9
100	Three-Dimensional Walnut-Like, Hierarchically Nanoporous Carbon Microspheres: One-Pot Synthesis, Activation, and Supercapacitive Performance. ACS Sustainable Chemistry and Engineering, 2020, 8, 8024-8036.	3.2	32
101	A freestanding metallic tin-modified and nitrogen-doped carbon skeleton as interlayer for lithium-sulfur battery. Chemical Engineering Journal, 2020, 399, 125723.	6.6	58
102	Carbon-supported Au modified N-doped carbon-coated FeMn alloy nanoparticle composites for BH4â^' electrocatalytic oxidation. New Journal of Chemistry, 2020, 44, 9870-9877.	1.4	2
103	Electrochemical performance and structural stability of air-stable Na0.67Ni0.33Mn0.67-xTixO2 cathode materials for high-performance sodium-ion batteries. Chemical Engineering Journal, 2020, 399, 125725.	6.6	43
104	Synthesis of SnS/C nanofibers membrane as self-standing anode for high-performance sodium-ion batteries by a smart process. Journal of Alloys and Compounds, 2020, 843, 155899.	2.8	31
105	Flower-like Bi4Ti3O12/Carbon nanotubes as reservoir and promoter of polysulfide for lithium sulfur battery. Journal of Power Sources, 2020, 453, 227896.	4.0	44
106	High electrocatalytic activity of carbon-supported nickel hydroxide-doped platinum nanocatalysts for BH4â^' electrooxidation. Ionics, 2020, 26, 5133-5141.	1.2	0
107	Preparation and Li/Na ion storage performance of raspberry-like hierarchical FeF3Â·0.33H2O micro-sized spheres with controllable morphology. Journal of Alloys and Compounds, 2020, 829, 154215.	2.8	13
108	Preparation and performances of the modified gel composite electrolyte for application of quasi-solid-state lithium sulfur battery. Chemical Engineering Journal, 2020, 389, 124300.	6.6	60

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109	P-doped ternary transition metal oxide as electrode material of asymmetric supercapacitor. Journal of Energy Storage, 2020, 28, 101248.	3.9	46
110	Polyfurfuryl alcohol assisted synthesis of Na2FePO4F/C nanocomposites as cathode material of sodium ion batteries. Journal of Electroanalytical Chemistry, 2020, 867, 114187.	1.9	9
111	Spherical Gr/Si/GO/C Composite as High-Performance Anode Material for Lithium-Ion Batteries. Energy & Fuels, 2020, 34, 7639-7647.	2.5	39
112	Controlled fabrication and performances of single-core/dual-shell hierarchical structure m-TNO@TiC@NC anode composite for lithium-ion batteries. Electrochimica Acta, 2020, 341, 136072.	2.6	12
113	Improving the Structure and Cycling Stability of Ni-Rich Layered Cathodes by Dual Modification of Yttrium Doping and Surface Coating. ACS Applied Materials & Interfaces, 2020, 12, 19483-19494.	4.0	91
114	N-Doped carbon-supported Au-modified NiFe alloy nanoparticle composite catalysts for BH4â^' electrooxidation. New Journal of Chemistry, 2020, 44, 6940-6946.	1.4	4
115	Hierarchically structured spherical nickel cobalt layered double hydroxides particles grown on biomass porous carbon as an advanced electrode for high specific energy asymmetric supercapacitor. Journal of Energy Storage, 2020, 30, 101454.	3.9	45
116	Flower-like ZnO modified with BiOI nanoparticles as adsorption/catalytic bifunctional hosts for lithiumâ€“sulfur batteries. Journal of Energy Chemistry, 2020, 51, 21-29.	7.1	30
117	Nd3+ doped BaSnF4 solid electrolyte for advanced room-temperature solid-state fluoride ion batteries. Ceramics International, 2020, 46, 20521-20528.	2.3	13
118	Enhanced electrochemical behaviors of carbon felt electrode using redox-active electrolyte for all-solid-state supercapacitors. Journal of Colloid and Interface Science, 2020, 577, 12-18.	5.0	22
119	Boosting the charge transfer of Li₂TiSiO₅ using nitrogen-doped carbon nanofibers: towards high-rate, long-life lithium-ion batteries. Nanoscale, 2020, 12, 19702-19710.	2.8	9
120	Honeycomb-like nitrogen and sulfur dual-doped hierarchical porous biomass carbon bifunctional interlayer for advanced lithium-sulfur batteries. Chemical Engineering Journal, 2019, 355, 478-486.	6.6	124
121	Free-standing SnS/C nanofiber anodes for ultralong cycle-life lithium-ion batteries and sodium-ion batteries. Energy Storage Materials, 2019, 17, 1-11.	9.5	221
122	Studies on the Kinetic Behaviors of Na Ions Insertion/Extraction in Na₂FeSiO₄/C Cathode Material at Various Desodiation States. ACS Applied Materials & Interfaces, 2019, 11, 31980-31990.	4.0	18
123	Graphene/antimonene/graphene heterostructure: A potential anode for sodium-ion batteries. Carbon, 2019, 153, 767-775.	5.4	45
124	Synthesis and characterization of Na0.44MnO2 nanorods/graphene composite as cathode materials for sodium-ion batteries. Journal of Central South University, 2019, 26, 1510-1520.	1.2	33
125	Na2FePO4F/C composite synthesized via a simple solid state route for lithium-ion batteries. Journal of Central South University, 2019, 26, 1521-1529.	1.2	7
126	Mesoporous aluminium manganese cobalt oxide with pentahedron structures for energy storage devices. Journal of Materials Chemistry A, 2019, 7, 18417-18427.	5.2	49

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127	Development of MgCo₂O₄â€“BaCO₃ composites as microwave catalysts for the highly effective direct decomposition of NO under excess O₂ at a low temperature. Catalysis Science and Technology, 2019, 9, 4276-4285.	2.1	15
128	Atomic insights into regulation of graphene sheets vertically attached to the FeF3Â·0.33H2O (002) surface by cation doping. Current Applied Physics, 2019, 19, 1103-1110.	1.1	0
129	Multiple regulation of surface engineering for lithium-rich layered cathode materials via one-step strategy. Electrochimica Acta, 2019, 325, 134951.	2.6	5
130	Carbon-Coated Yttria Hollow Spheres as Both Sulfur Immobilizer and Catalyst of Polysulfides Conversion in Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 42104-42113.	4.0	45
131	In situ self-assembly of SiO2 coating Co3O4/graphene aerogel and its enhanced electrochemical performance for supercapacitors. Journal of Materials Science: Materials in Electronics, 2019, 30, 17218-17226.	1.1	6
132	Internal in situ gel polymer electrolytes for high-performance quasi-solid-state lithium ion batteries. Journal of Solid State Electrochemistry, 2019, 23, 2785-2792.	1.2	15
133	A flexible tysonite-type La0.95Ba0.05F2.95@PEO-based composite electrolyte for the application of advanced fluoride ion battery. Journal of Energy Storage, 2019, 25, 100886.	3.9	17
134	Tellurium Surface Doping to Enhance the Structural Stability and Electrochemical Performance of Layered Ni-Rich Cathodes. ACS Applied Materials & Interfaces, 2019, 11, 40022-40033.	4.0	85
135	Modified Chestnut-Like Structure Silicon Carbon Composite as Anode Material for Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 10415-10424.	3.2	84
136	Carbon-supported Ni(OH)2 nanospheres decorated with Au nanoparticles: a promising catalyst for BH4â^' electrooxidation. Ionics, 2019, 25, 5153-5161.	1.2	5
137	Sb2S3 embedded in carbonâ€“silicon oxide nanofibers as high-performance anode materials for lithium-ion and sodium-ion batteries. Journal of Power Sources, 2019, 435, 226762.	4.0	67
138	Architecture and Performance of the Novel Sulfur Host Material Based on Ti₂O₃ Microspheres for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 22439-22448.	4.0	54
139	A high-performance gel polymer electrolyte based on poly(vinylidene fluoride)/thermoplastic polyurethane/poly(propylene carbonate) for lithium-ion batteries. Journal of Chemical Sciences, 2019, 131, 1.	0.7	11
140	Improved cycle and air stability of P3-Na0.65Mn0.75Ni0.25O2 electrode for sodium-ion batteries coated with metal phosphates. Chemical Engineering Journal, 2019, 372, 1066-1076.	6.6	67
141	Preparation and performances of novel Na2FeSiO4/C composite with more stable polymorph as cathode material of sodium-ion batteries. Journal of Power Sources, 2019, 430, 120-129.	4.0	17
142	A tin disulfide nanosheet wrapped with interconnected carbon nanotube networks for application of lithium sulfur batteries. Electrochimica Acta, 2019, 313, 151-160.	2.6	33
143	Gel electrolytes based on polyacrylonitrile/thermoplastic polyurethane/polystyrene for lithium-ion batteries. Ionics, 2019, 25, 3673-3682.	1.2	19
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