

# Changtai Zhao

## List of Publications by Year in descending order

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200  
papers

19,748  
citations

8181

76  
h-index

11939

134  
g-index

202  
all docs

202  
docs citations

202  
times ranked

19161  
citing authors

#	ARTICLE	IF	CITATIONS
1	Activity descriptor of Ni,N-Codoped carbon electrocatalyst in CO <sub>2</sub> electroreduction reaction. <i>Chemical Engineering Journal</i> , 2022, 433, 131965.	12.7	13
2	Insight into the Inhibition of Shuttle by Metal-Modified Covalent Triazine Frameworks and Graphene Composites with the Solvent Interaction in Lithium Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 825-831.	5.1	6
3	Electric-Field-Triggered Graphene Production: From Fundamental Energy Applications to Perspectives. <i>Accounts of Materials Research</i> , 2022, 3, 175-186.	11.7	8
4	Ultra-High Fluorine Enhanced Homogeneous Nucleation of Lithium Metal on Stepped Carbon Nanosheets with Abundant Edge Sites. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	22
5	A multi-interface CoNi-SP/C heterostructure for quasi-solid-state hybrid supercapacitors with a graphene oxide-containing hydrogel electrolyte. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4671-4682.	10.3	39
6	Interlayer-Expanded Titanate Hierarchical Hollow Spheres Embedded in Carbon Nanofibers for Enhanced Na Storage. <i>Small</i> , 2022, 18, e2107890.	10.0	8
7	Mismatching integration-enabled strains and defects engineering in LDH microstructure for high-rate and long-life charge storage. <i>Nature Communications</i> , 2022, 13, 1409.	12.8	42
8	Sodium Metal Anodes with Self-Correction Function Based on Fluorine-Superdoped CNTs/Cellulose Nanofibrils Composite Paper. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	24
9	Strategies to activate inert nitrogen molecules for efficient ammonia electrosynthesis: current status, challenges, and perspectives. <i>Energy and Environmental Science</i> , 2022, 15, 2776-2805.	30.8	48
10	Microscopic-Level Insights into the Mechanism of Enhanced NH <sub>3</sub> Synthesis in Plasma-Enabled Cascade N <sub>2</sub> Oxidation-Electroreduction System. <i>Journal of the American Chemical Society</i> , 2022, 144, 10193-10200.	13.7	64
11	Multilayer-Dense Porous Carbon Nanosheets with High Volumetric Capacitance for Supercapacitors. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 8908-8917.	3.7	6
12	Insight into the Effects of Current Collectors and In Situ Ni Leaching in High-Voltage Aqueous Supercapacitors. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	19
13	Understanding of Sodium Storage Mechanism in Hard Carbons: Ongoing Development under Debate. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	88
14	Toward commercial-level mass-loading electrodes for supercapacitors: opportunities, challenges and perspectives. <i>Energy and Environmental Science</i> , 2021, 14, 576-601.	30.8	166
15	Recent research advances of self-discharge in supercapacitors: Mechanisms and suppressing strategies. <i>Journal of Energy Chemistry</i> , 2021, 58, 94-109.	12.9	109
16	Ternary NiFeMn layered metal oxide (LDO) compounds for capacitive deionization defluoridation: The unique role of Mn. <i>Separation and Purification Technology</i> , 2021, 254, 117667.	7.9	33
17	In-situ surface chemical and structural self-reconstruction strategy enables high performance of Li-rich cathode. <i>Nano Energy</i> , 2021, 79, 105459.	16.0	53
18	Transition of the Reaction from Three-Phase to Two-Phase by Using a Hybrid Conductor for High-Energy-Density High-Rate Solid-State Li <sub>2</sub> O <sub>2</sub> Batteries. <i>Angewandte Chemie</i> , 2021, 133, 2.0 5885-5890.		14

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19	Operando Tailoring of Defects and Strains in Corrugated $\text{Ni}(\text{OH})_2$ Nanosheets for Stable and High-Rate Energy Storage. <i>Advanced Materials</i> , 2021, 33, e2006147.	21.0	44
20	Transition of the Reaction from Three-Phase to Two-Phase by Using a Hybrid Conductor for High-Energy-Density High-Rate Solid-State $\text{Li-O}_2$ Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5821-5826.	13.8	47
21	Interface Inversion: A Promising Strategy to Configure Ultrafine Nanoparticles over Graphene for Fast Sodium Storage. <i>Small</i> , 2021, 17, 2005119.	10.0	6
22	Recent advances in innovative strategies for the $\text{CO}_2$ electroreduction reaction. <i>Energy and Environmental Science</i> , 2021, 14, 765-780.	30.8	188
23	3D Carbon Frameworks for Ultrafast Charge/Discharge Rate Supercapacitors with High Energy-Power Density. <i>Nano-Micro Letters</i> , 2021, 13, 8.	27.0	64
24	Regulated lithium plating and stripping by a nano-scale gradient inorganic-organic coating for stable lithium metal anodes. <i>Energy and Environmental Science</i> , 2021, 14, 4085-4094.	30.8	48
25	A closed-loop and scalable process for the production of biomass-derived superhydrophilic carbon for supercapacitors. <i>Green Chemistry</i> , 2021, 23, 3400-3409.	9.0	80
26	Reviving Anode Protection Layer in $\text{Na-O}_2$ Batteries: Failure Mechanism and Resolving Strategy. <i>Advanced Energy Materials</i> , 2021, 11, 2003789.	19.5	22
27	Energy Accumulation Enabling Fast Synthesis of Intercalated Graphite and Operando Decoupling for Lithium Storage. <i>Advanced Functional Materials</i> , 2021, 31, 2009801.	14.9	9
28	Stable Silicon Anodes by Molecular Layer Deposited Artificial Zincone Coatings. <i>Advanced Functional Materials</i> , 2021, 31, 2010526.	14.9	46
29	Design and Fabrication of Hierarchical $\text{NiCoP-MOF}$ Heterostructure with Enhanced Pseudocapacitive Properties. <i>Small</i> , 2021, 17, e2100353.	10.0	101
30	The Electrolysis of Anti-Perovskite $\text{Li}_2\text{OHCl}$ for Prelithiation of High-Energy-Density Batteries. <i>Angewandte Chemie</i> , 2021, 133, 13123-13130.	2.0	4
31	The Electrolysis of Anti-Perovskite $\text{Li}_2\text{OHCl}$ for Prelithiation of High-Energy-Density Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13013-13020.	13.8	25
32	Toward an Understanding of the Enhanced $\text{CO}_2$ Electroreduction in $\text{NaCl}$ Electrolyte over $\text{CoPc}$ Molecule-Implanted Graphitic Carbon Nitride Catalyst. <i>Advanced Energy Materials</i> , 2021, 11, 2100075.	19.5	36
33	Oriented Nanosheet-Assembled $\text{CoNi-LDH}$ Cages with Efficient Ion Diffusion for Quasi-Solid-State Hybrid Supercapacitors. <i>Inorganic Chemistry</i> , 2021, 60, 12197-12205.	4.0	32
34	Glutamic acid-assisted hydrothermal recrystallization to configure bamboo-like carbon nanotubes for improved triiodide reduction. <i>Chinese Journal of Chemical Engineering</i> , 2021, 37, 159-167.	3.5	1
35	Carbon-enabled microwave chemistry: From interaction mechanisms to nanomaterial manufacturing. <i>Nano Energy</i> , 2021, 85, 106027.	16.0	50
36	Operando leaching of pre-incorporated Al and mechanism in transition-metal hybrids on carbon substrates for enhanced charge storage. <i>Matter</i> , 2021, 4, 2902-2918.	10.0	22

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37	Three-dimensional hierarchical Na <sub>3</sub> Fe <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C with superior and fast sodium uptake for efficient hybrid capacitive deionization. <i>Desalination</i> , 2021, 520, 115341.	8.2	41
38	A tuned Lewis acidic catalyst guided by hard-soft acid-base theory to promote N <sub>2</sub> electroreduction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13036-13043.	10.3	19
39	Strategies to suppress hydrogen evolution for highly selective electrocatalytic nitrogen reduction: challenges and perspectives. <i>Energy and Environmental Science</i> , 2021, 14, 1176-1193.	30.8	275
40	Decoupling the Voltage Hysteresis of Li-Rich Cathodes: Electrochemical Monitoring, Modulation Anionic Redox Chemistry and Theoretical Verifying. <i>Advanced Functional Materials</i> , 2021, 31, .	14.9	59
41	A durable MXene-based zinc ion hybrid supercapacitor with sulfated polysaccharide reinforced hydrogel/electrolyte. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23941-23954.	10.3	49
42	Nitrogen-doped hierarchically porous carbon nanosheets derived from polymer/graphene oxide hydrogels for high-performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 69-76.	9.4	106
43	NH <sub>4</sub> <sup>+</sup> /VO <sub>10</sub> /rGO Composite as a high-performance electrode material for hybrid capacitive deionization. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 303-311.	2.4	19
44	Rapid and energy-efficient microwave pyrolysis for high-yield production of highly-active bifunctional electrocatalysts for water splitting. <i>Energy and Environmental Science</i> , 2020, 13, 545-553.	30.8	169
45	A 3D-printed ultra-high Se loading cathode for high energy density quasi-solid-state Li-Se batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 278-286.	10.3	41
46	Fabrication of nitrogen-doped porous graphene hybrid nanosheets from metal-organic frameworks for lithium-ion batteries. <i>Nanotechnology</i> , 2020, 31, 145402.	2.6	12
47	Ultrafast construction of interfacial sites by wet chemical etching to enhance electrocatalytic oxygen evolution. <i>Nano Energy</i> , 2020, 69, 104367.	16.0	58
48	In Situ Growing Chromium Oxynitride Nanoparticles on Carbon Nanofibers to Stabilize Lithium Deposition for Lithium Metal Anodes. <i>Small</i> , 2020, 16, e2003827.	10.0	21
49	Scalable synthesis of 2D hydrogen-substituted graphdiyne on Zn substrate for high-yield N <sub>2</sub> fixation. <i>Nano Energy</i> , 2020, 78, 105283.	16.0	38
50	3D Porous Garnet/Gel Polymer Hybrid Electrolyte for Safe Solid-State Li-O <sub>2</sub> Batteries with Long Lifetimes. <i>Chemistry of Materials</i> , 2020, 32, 10113-10119.	6.7	39
51	Insights into the electronic origin of enhancing the catalytic activity of Co <sub>3</sub> O <sub>4</sub> for oxygen evolution by single atom ruthenium. <i>Nano Today</i> , 2020, 34, 100955.	11.9	29
52	Full Bulk-Structure Reconstruction into Amorphized Cobalt-Iron Oxyhydroxide Nanosheet Electrocatalysts for Greatly Improved Electrocatalytic Activity. <i>Small Methods</i> , 2020, 4, 2000546.	8.6	38
53	Ultrafast Construction of Oxygen-Containing Scaffold over Graphite for Trapping Ni <sup>2+</sup> into Single Atom Catalysts. <i>ACS Nano</i> , 2020, 14, 11662-11669.	14.6	20
54	Single crystal cathodes enabling high-performance all-solid-state lithium-ion batteries. <i>Energy Storage Materials</i> , 2020, 30, 98-103.	18.0	109

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55	Graphene Oxide-Tuned MoS <sub>2</sub> with an Expanded Interlayer for Efficient Hybrid Capacitive Deionization. ACS Sustainable Chemistry and Engineering, 2020, 8, 9690-9697.	6.7	50
56	Halide-based solid-state electrolyte as an interfacial modifier for high performance solid-state Li-O <sub>2</sub> batteries. Nano Energy, 2020, 75, 105036.	16.0	45
57	Tailoring the Mechanical and Electrochemical Properties of an Artificial Interphase for High-Performance Metallic Lithium Anode. Advanced Energy Materials, 2020, 10, 2001139.	19.5	36
58	Unveiling the critical role of interfacial ionic conductivity in all-solid-state lithium batteries. Nano Energy, 2020, 72, 104686.	16.0	56
59	Determining the limiting factor of the electrochemical stability window for PEO-based solid polymer electrolytes: main chain or terminal -OH group?. Energy and Environmental Science, 2020, 13, 1318-1325.	30.8	342
60	3D Printing of Free-Standing -O <sub>2</sub> Breathable-Air Electrodes for High-Capacity and Long-Life Na-O <sub>2</sub> Batteries. Chemistry of Materials, 2020, 32, 3018-3027.	6.7	37
61	Laser Irradiation of Electrode Materials for Energy Storage and Conversion. Matter, 2020, 3, 95-126.	10.0	74
62	Dual Hybrid Effect Endowing Nickel-Cobalt Sulfides with Enhanced Cycling Stability for Asymmetrical Supercapacitors. ACS Applied Energy Materials, 2020, 3, 6977-6984.	5.1	21
63	Fabrication of Porous Carbon Nanosheets with the Engineered Graphitic Structure for Electrochemical Supercapacitors. Industrial & Engineering Chemistry Research, 2020, 59, 13623-13630.	3.7	12
64	Boosting charge storage in 1D manganese oxide-carbon composite by phosphorus-assisted structural modification for supercapacitor applications. Energy Storage Materials, 2020, 31, 172-180.	18.0	30
65	Operando Revealing Dynamic Reconstruction of NiCo Carbonate Hydroxide for High-Rate Energy Storage. Joule, 2020, 4, 673-687.	24.0	88
66	Achieving Multiple and Tunable Ratios of Syngas to Meet Various Downstream Industrial Processes. ACS Sustainable Chemistry and Engineering, 2020, 8, 3328-3335.	6.7	11
67	DBD plasma-tuned functionalization of edge-enriched graphene nanoribbons for high performance supercapacitors. Electrochimica Acta, 2020, 337, 135741.	5.2	13
68	Rice husk-based hierarchical porous carbon for high performance supercapacitors: The structure-performance relationship. Carbon, 2020, 161, 432-444.	10.3	121
69	Suppressed dendrite formation realized by selective Li deposition in all-solid-state lithium batteries. Energy Storage Materials, 2020, 27, 198-204.	18.0	40
70	3D nickel-cobalt phosphide heterostructure for high-performance solid-state hybrid supercapacitors. Journal of Power Sources, 2020, 467, 228324.	7.8	97
71	Ultralong-Life Quasi-Solid-State Li-O <sub>2</sub> Batteries Enabled by Coupling Advanced Air Electrode Design with Li Metal Anode Protection. Small Methods, 2019, 3, 1800437.	8.6	35
72	Facile Fabrication of NiCoAl-Layered Metal Oxide/Graphene Nanosheets for Efficient Capacitive Deionization Defluorination. ACS Applied Materials & Interfaces, 2019, 11, 31200-31209.	8.0	57

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73	Highly Stable Lithium Metal Anode Interface via Molecular Layer Deposition Zirconium Coatings for Long Life Next-Generation Battery Systems. <i>Angewandte Chemie</i> , 2019, 131, 15944-15949.	2.0	18
74	Highly Stable Lithium Metal Anode Interface via Molecular Layer Deposition Zirconium Coatings for Long Life Next-Generation Battery Systems. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15797-15802.	13.8	96
75	Porous polyaniline arrays oriented on functionalized carbon cloth as binder-free electrode for flexible supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113348.	3.8	27
76	Decoupling and correlating the ion transport by engineering 2D carbon nanosheets for enhanced charge storage. <i>Nano Energy</i> , 2019, 64, 103921.	16.0	90
77	Self-healing electrostatic shield enabling uniform lithium deposition in all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019, 22, 194-199.	18.0	55
78	Hierarchical Bimetallic Hydroxides Built by Porous Nanowire-Lapped Bundles with Ultrahigh Areal Capacity for Stable Hybrid Solid-State Supercapacitors. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900959.	3.7	12
79	$O_2/O_2^{+}$ Crossover- and Dendrite-Free Hybrid Solid-State Na $O_2$ Batteries. <i>Chemistry of Materials</i> , 2019, 31, 9024-9031.	6.7	24
80	Is It Appropriate to Use the Nafion Membrane in Electrocatalytic $N_2$ Reduction?. <i>Small Methods</i> , 2019, 3, 1900474.	8.6	56
81	Natural SEI-Inspired Dual-Protective Layers via Atomic/Molecular Layer Deposition for Long-Life Metallic Lithium Anode. <i>Matter</i> , 2019, 1, 1215-1231.	10.0	120
82	Multilevel Coupled Hybrids Made of Porous Cobalt Oxides and Graphene for High-Performance Lithium Storage. <i>Chemistry - A European Journal</i> , 2019, 25, 5527-5533.	3.3	6
83	Self-Templating Synthesis of 3D Hollow Tubular Porous Carbon Derived from Straw Cellulose Waste with Excellent Performance for Supercapacitors. <i>ChemSusChem</i> , 2019, 12, 1390-1400.	6.8	68
84	Activation of transition metal oxides by in-situ electro-regulated structure-reconstruction for ultra-efficient oxygen evolution. <i>Nano Energy</i> , 2019, 58, 778-785.	16.0	81
85	A Universal Converse Voltage Process for Triggering Transition Metal Hybrids In Situ Phase Restructure toward Ultrahigh-Rate Supercapacitors. <i>Advanced Materials</i> , 2019, 31, e1901241.	21.0	81
86	Polyethyleneimine-Mediated Fabrication of Two-Dimensional Cobalt Sulfide/Graphene Hybrid Nanosheets for High-Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 26235-26242.	8.0	35
87	Microwave-Assisted Ultrafast Synthesis of Molybdenum Carbide Nanoparticles Grown on Carbon Matrix for Efficient Hydrogen Evolution Reaction. <i>Small Methods</i> , 2019, 3, 1900259.	8.6	46
88	Membrane-Free Hybrid Capacitive Deionization System Based on Redox Reaction for High-Efficiency NaCl Removal. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6292-6301.	10.0	116
89	A Phase Transformation-Resistant Electrode Enabled by a $MnO_2$ -Confined Effect for Enhanced Energy Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1901342.	14.9	18
90	High-areal-capacity all-solid-state lithium batteries enabled by rational design of fast ion transport channels in vertically-aligned composite polymer electrodes. <i>Nano Energy</i> , 2019, 61, 567-575.	16.0	126

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91	Phase controllable synthesis of Ni <sup>2+</sup> post-modified CoP nanowire for enhanced oxygen evolution. <i>Nano Energy</i> , 2019, 62, 136-143.	16.0	66
92	Design and fabrication of carbon dots for energy conversion and storage. <i>Chemical Society Reviews</i> , 2019, 48, 2315-2337.	38.1	552
93	Highly stable lithium-sulfur batteries based on p-n heterojunctions embedded on hollow sheath carbon propelling polysulfides conversion. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9230-9240.	10.3	79
94	Coal-based carbon anodes for high-performance potassium-ion batteries. <i>Carbon</i> , 2019, 147, 574-581.	10.3	98
95	A recyclable route to produce biochar with a tailored structure and surface chemistry for enhanced charge storage. <i>Green Chemistry</i> , 2019, 21, 2095-2103.	9.0	23
96	Electrochemically Driven Coordination Tuning of FeOOH Integrated on Carbon Fiber Paper for Enhanced Oxygen Evolution. <i>Small</i> , 2019, 15, e1901015.	10.0	46
97	Restructuring of Cu <sub>2</sub> O to Cu <sub>2</sub> O@Cu-Metal-Organic Frameworks for Selective Electrochemical Reduction of CO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 9904-9910.	8.0	174
98	Implanting CNT Forest onto Carbon Nanosheets as Multifunctional Hosts for High-Performance Lithium Metal Batteries. <i>Small Methods</i> , 2019, 3, 1800546.	8.6	34
99	Engineering a nanonet-reinforced polymer electrolyte for long-life Li-O <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24947-24952.	10.3	16
100	Designed synthesis of cobalt nanoparticles embedded carbon nanocages as bifunctional electrocatalysts for oxygen evolution and reduction. <i>Carbon</i> , 2019, 144, 492-499.	10.3	31
101	Theoretical and Experimental Insights into the Effects of Oxygen-Containing Species within CNTs toward Triiodide Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7527-7534.	6.7	10
102	Strategies and insights towards the intrinsic capacitive properties of MnO <sub>2</sub> for supercapacitors: Challenges and perspectives. <i>Nano Energy</i> , 2019, 57, 459-472.	16.0	232
103	Cobalt nitride nanoparticles embedded in porous carbon nanosheet arrays propelling polysulfides conversion for highly stable lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2019, 21, 210-218.	18.0	79
104	Scrutinizing Defects and Defect Density of Selenium-Doped Graphene for High-Efficiency Triiodide Reduction in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4682-4686.	13.8	155
105	Scrutinizing Defects and Defect Density of Selenium-Doped Graphene for High-Efficiency Triiodide Reduction in Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2018, 130, 4772-4776.	2.0	28
106	An electrocatalyst with anti-oxidized capability for overall water splitting. <i>Nano Research</i> , 2018, 11, 3411-3418.	10.4	16
107	Superhierarchical Cobalt-Embedded Nitrogen-Doped Porous Carbon Nanosheets as Two-in-One Hosts for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2018, 30, e1706895.	21.0	300
108	High performance concentration capacitors with graphene hydrogel electrodes for harvesting salinity gradient energy. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4981-4987.	10.3	38



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109	Ultra-high Rate and Long-Life Sodium-Ion Batteries Enabled by Engineered Surface and Near-Surface Reactions. <i>Advanced Materials</i> , 2018, 30, 1702486.	21.0	153
110	Interconnected sheet-like porous carbons from coal tar by a confined soft-template strategy for supercapacitors. <i>Chemical Engineering Journal</i> , 2018, 350, 49-56.	12.7	107
111	Calcined MgAl-Layered Double Hydroxide/Graphene Hybrids for Capacitive Deionization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 6417-6425.	3.7	59
112	Nanopore-confined g-C <sub>3</sub> N <sub>4</sub> nanodots in N, S co-doped hollow porous carbon with boosted capacity for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7133-7141.	10.3	80
113	Co ion-intercalation amorphous and ultrathin microstructure for high-rate oxygen evolution. <i>Energy Storage Materials</i> , 2018, 10, 291-296.	18.0	14
114	An effective graphene confined strategy to construct active edge sites-enriched nanosheets with enhanced oxygen evolution. <i>Carbon</i> , 2018, 126, 437-442.	10.3	37
115	Template-free synthesis of interconnected carbon nanosheets via cross-linking coupled with annealing for high-efficiency triiodide reduction. <i>Green Chemistry</i> , 2018, 20, 250-254.	9.0	7
116	Phosphate Species up to 70% Mass Ratio for Enhanced Pseudocapacitive Properties. <i>Small</i> , 2018, 14, e1803811.	10.0	29
117	Surface-Confined Fabrication of Ultrathin Nickel Cobalt-Layered Double Hydroxide Nanosheets for High-Performance Supercapacitors. <i>Advanced Functional Materials</i> , 2018, 28, 1803272.	14.9	215
118	Ultra-high Capacity and Long-Life Lithium-Metal Batteries Enabled by Engineering Carbon Nanofiber-Stabilized Graphene Aerogel Film Host. <i>Small</i> , 2018, 14, e1803310.	10.0	48
119	Hierarchical porous carbon sheets derived from biomass containing an activation agent and in-built template for lithium ion batteries. <i>Carbon</i> , 2018, 139, 1085-1092.	10.3	106
120	Surface modification of biomass-derived hard carbon by grafting porous carbon nanosheets for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15954-15960.	10.3	216
121	Graphite-graphene architecture stabilizing ultrafine Co <sub>3</sub> O <sub>4</sub> nanoparticles for superior oxygen evolution. <i>Carbon</i> , 2018, 140, 17-23.	10.3	20
122	Decoupling atomic-layer-deposition ultrafine RuO <sub>2</sub> for high-efficiency and ultralong-life Li-O <sub>2</sub> batteries. <i>Nano Energy</i> , 2017, 34, 399-407.	16.0	63
123	Iron-tuned super nickel phosphide microstructures with high activity for electrochemical overall water splitting. <i>Nano Energy</i> , 2017, 34, 472-480.	16.0	258
124	Ultrasensitive Iron-Triggered Nanosized Fe-CoOOH Integrated with Graphene for Highly Efficient Oxygen Evolution. <i>Advanced Energy Materials</i> , 2017, 7, 1602148.	19.5	216
125	Nitrogen-doped mesoporous carbon nanosheets derived from metal-organic frameworks in a molten salt medium for efficient desulfurization. <i>Carbon</i> , 2017, 117, 376-382.	10.3	78
126	Ultrafine MoO <sub>2</sub> -Carbon Microstructures Enable Ultralong-Life Power-Type Sodium Ion Storage by Enhanced Pseudocapacitance. <i>Advanced Energy Materials</i> , 2017, 7, 1602880.	19.5	306



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127	Flexible Paper-like Free-Standing Electrodes by Anchoring Ultrafine SnS <sub>2</sub> Nanocrystals on Graphene Nanoribbons for High-Performance Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 15484-15491.	8.0	102
128	Long life rechargeable Li-O <sub>2</sub> batteries enabled by enhanced charge transfer in nanocable-like Fe@N-doped carbon nanotube catalyst. Science China Materials, 2017, 60, 415-426.	6.3	26
129	Supramolecular polymerization-assisted synthesis of nitrogen and sulfur dual-doped porous graphene networks from petroleum coke as efficient metal-free electrocatalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2017, 5, 11331-11339.	10.3	54
130	Porous carbon nanosheets from coal tar for high-performance supercapacitors. Journal of Power Sources, 2017, 357, 41-46.	7.8	150
131	Nitrogen-doped tubular/porous carbon channels implanted on graphene frameworks for multiple confinement of sulfur and polysulfides. Journal of Materials Chemistry A, 2017, 5, 10380-10386.	10.3	32
132	Metal-Organic Framework-Derived Hybrid Carbon Nanocages as a Bifunctional Electrocatalyst for Oxygen Reduction and Evolution. Advanced Materials, 2017, 29, 1700874.	21.0	678
133	Synthesis of layered microporous carbons from coal tar by directing, space-confinement and self-sacrificed template strategy for supercapacitors. Electrochimica Acta, 2017, 246, 634-642.	5.2	52
134	A superhydrophilic "nanoglue" for stabilizing metal hydroxides onto carbon materials for high-energy and ultralong-life asymmetric supercapacitors. Energy and Environmental Science, 2017, 10, 1958-1965.	30.8	294
135	Solvothermal conversion of coal into nitrogen-doped carbon dots with singlet oxygen generation and high quantum yield. Chemical Engineering Journal, 2017, 320, 570-575.	12.7	123
136	Rational design and fabrication of sulfur-doped porous graphene with enhanced performance as a counter electrode in dye-sensitized solar cells. Journal of Materials Chemistry A, 2017, 5, 2280-2287.	10.3	72
137	Nitrogen-doped hierarchical porous carbon derived from metal-organic aerogel for high performance lithium-sulfur batteries. Journal of Energy Chemistry, 2017, 26, 1282-1290.	12.9	56
138	Controlled Fabrication of Interconnected Porous Carbon Nanosheets for Supercapacitors with a Long Cycle Life. ChemElectroChem, 2017, 4, 3196-3203.	3.4	8
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