

Han Hu

List of Publications by Year in descending order

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207
papers

23,328
citations

8181

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docs citations

214
times ranked

22984
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultralight and Highly Compressible Graphene Aerogels. <i>Advanced Materials</i> , 2013, 25, 2219-2223.	21.0	1,249
2	Designed Formation of $\text{Co}_3\text{O}_4/\text{NiCo}_2\text{O}_4$ Double-Shelled Nanocages with Enhanced Pseudocapacitive and Electrocatalytic Properties. <i>Journal of the American Chemical Society</i> , 2015, 137, 5590-5595.	13.7	1,059
3	Enhancing lithium-sulphur battery performance by strongly binding the discharge products on amino-functionalized reduced graphene oxide. <i>Nature Communications</i> , 2014, 5, 5002.	12.8	892
4	Complex Hollow Nanostructures: Synthesis and Energy-Related Applications. <i>Advanced Materials</i> , 2017, 29, 1604563.	21.0	627
5	Electroactive edge site-enriched nickel-cobalt sulfide into graphene frameworks for high-performance asymmetric supercapacitors. <i>Energy and Environmental Science</i> , 2016, 9, 1299-1307.	30.8	623
6	Sustainable Synthesis and Assembly of Biomass-Derived B/N Co-Doped Carbon Nanosheets with Ultrahigh Aspect Ratio for High-Performance Supercapacitors. <i>Advanced Functional Materials</i> , 2016, 26, 111-119.	14.9	607
7	Ultrathin MoS_2 Nanosheets Supported on N-Doped Carbon Nanoboxes with Enhanced Lithium Storage and Electrocatalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7395-7398.	13.8	596
8	Stabilizing the MXenes by Carbon Nanoplatting for Developing Hierarchical Nanohybrids with Efficient Lithium Storage and Hydrogen Evolution Capability. <i>Advanced Materials</i> , 2017, 29, 1607017.	21.0	583
9	Design and fabrication of carbon dots for energy conversion and storage. <i>Chemical Society Reviews</i> , 2019, 48, 2315-2337.	38.1	552
10	Construction of Complex CoS Hollow Structures with Enhanced Electrochemical Properties for Hybrid Supercapacitors. <i>CheM</i> , 2016, 1, 102-113.	11.7	525
11	Double-Shelled Nanocages with Cobalt Hydroxide Inner Shell and Layered Double Hydroxides Outer Shell as High-Efficiency Polysulfide Mediator for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3982-3986.	13.8	505
12	Metal-organic-framework-engaged formation of Co nanoparticle-embedded $\text{carbon@Co}_9\text{S}_8$ double-shelled nanocages for efficient oxygen reduction. <i>Energy and Environmental Science</i> , 2016, 9, 107-111.	30.8	499
13	Formation of Uniform Fe_3O_4 Hollow Spheres Organized by Ultrathin Nanosheets and Their Excellent Lithium Storage Properties. <i>Advanced Materials</i> , 2015, 27, 4097-4101.	21.0	396
14	Carbon foam: Preparation and application. <i>Carbon</i> , 2015, 87, 128-152.	10.3	347
15	Unusual Formation of CoSe@carbon Nanoboxes, which have an Inhomogeneous Shell, for Efficient Lithium Storage. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9514-9518.	13.8	308
16	Ultrafine MoO_2 -Carbon Microstructures Enable Ultralong-Life Power-Type Sodium Ion Storage by Enhanced Pseudocapacitance. <i>Advanced Energy Materials</i> , 2017, 7, 1602880.	19.5	306
17	A superhydrophilic "nanoglue" for stabilizing metal hydroxides onto carbon materials for high-energy and ultralong-life asymmetric supercapacitors. <i>Energy and Environmental Science</i> , 2017, 10, 1958-1965.	30.8	294
18	A Flexible $\text{TiO}_2(\text{B})$ -Based Battery Electrode with Superior Power Rate and Ultralong Cycle Life. <i>Advanced Materials</i> , 2013, 25, 3462-3467.	21.0	286

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19	Self-Sensing, Ultralight, and Conductive 3D Graphene/Iron Oxide Aerogel Elastomer Deformable in a Magnetic Field. <i>ACS Nano</i> , 2015, 9, 3969-3977.	14.6	266
20	Naturally Dried Graphene Aerogels with Superelasticity and Tunable Poisson's Ratio. <i>Advanced Materials</i> , 2016, 28, 9223-9230.	21.0	254
21	3D Architecture Materials Made of NiCoAl-LDH Nanoplates Coupled with NiCo-Carbonate Hydroxide Nanowires Grown on Flexible Graphite Paper for Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2014, 4, 1400761.	19.5	251
22	The role of microwave absorption on formation of graphene from graphite oxide. <i>Carbon</i> , 2012, 50, 3267-3273.	10.3	250
23	A Binder-Free and Free-Standing Cobalt Sulfide@Carbon Nanotube Cathode Material for Aluminum-Ion Batteries. <i>Advanced Materials</i> , 2018, 30, 1703824.	21.0	250
24	Ultrafast Self-Assembly of Graphene Oxide-Induced Monolithic NiCo-Carbonate Hydroxide Nanowire Architectures with a Superior Volumetric Capacitance for Supercapacitors. <i>Advanced Functional Materials</i> , 2015, 25, 2109-2116.	14.9	230
25	Engineering hollow polyhedrons structured from carbon-coated CoSe ₂ nanospheres bridged by CNTs with boosted sodium storage performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13591-13600.	10.3	225
26	Metal-Organic Frameworks Mediated Synthesis of One-Dimensional Molybdenum-Based/Carbon Composites for Enhanced Lithium Storage. <i>ACS Nano</i> , 2018, 12, 1990-2000.	14.6	221
27	Nitrogen-doped activated carbon derived from prawn shells for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2016, 190, 1134-1141.	5.2	217
28	Construction of hybrid bowl-like structures by anchoring NiO nanosheets on flat carbon hollow particles with enhanced lithium storage properties. <i>Energy and Environmental Science</i> , 2015, 8, 1707-1711.	30.8	215
29	Compressible Carbon Nanotube-Graphene Hybrid Aerogels with Superhydrophobicity and Superoleophilicity for Oil Sorption. <i>Environmental Science and Technology Letters</i> , 2014, 1, 214-220.	8.7	212
30	Synthesis of Biomass-Derived Nitrogen-Doped Porous Carbon Nanosheets for High-Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8405-8412.	6.7	203
31	A Top-Down Strategy toward 3D Carbon Nanosheet Frameworks Decorated with Hollow Nanostructures for Superior Lithium Storage. <i>Advanced Functional Materials</i> , 2016, 26, 7590-7598.	14.9	201
32	Highly efficient synthesis of graphene/MnO ₂ hybrids and their application for ultrafast oxidative decomposition of methylene blue. <i>Carbon</i> , 2014, 66, 485-492.	10.3	189
33	Highly Stretchable and Ultrasensitive Strain Sensor Based on Reduced Graphene Oxide Microtubes-Elastomer Composite. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27432-27439.	8.0	189
34	Sandwich-Like Ultrathin TiS ₂ Nanosheets Confined within N, S Codoped Porous Carbon as an Effective Polysulfide Promoter in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901872.	19.5	186
35	Hierarchical tubular structures constructed from ultrathin TiO ₂ (B) nanosheets for highly reversible lithium storage. <i>Energy and Environmental Science</i> , 2015, 8, 1480-1483.	30.8	183
36	Mechanically robust honeycomb graphene aerogel multifunctional polymer composites. <i>Carbon</i> , 2015, 93, 659-670.	10.3	182

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37	NiCo-layered double hydroxides vertically assembled on carbon fiber papers as binder-free high-active electrocatalysts for water oxidation. <i>Carbon</i> , 2016, 110, 1-7.	10.3	175
38	A layered-template-nanospace-confinement strategy for production of corrugated graphene nanosheets from petroleum pitch for supercapacitors. <i>Chemical Engineering Journal</i> , 2016, 297, 121-127.	12.7	168
39	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
40	Mass and Charge Transfer Coenhanced Oxygen Evolution Behaviors in CoFe ₂ O ₄ -Layered Double Hydroxide Assembled on Graphene. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500782.	3.7	165
41	MXene-Based Electrode with Enhanced Pseudocapacitance and Volumetric Capacity for Power-Type and Ultra-Long Life Lithium Storage. <i>ACS Nano</i> , 2018, 12, 3928-3937.	14.6	163
42	Lithiation-Induced Vacancy Engineering of Co ₃ O ₄ with Improved Faradic Reactivity for High-Performance Supercapacitor. <i>Advanced Functional Materials</i> , 2020, 30, 2004172.	14.9	156
43	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
44	Ultrahigh 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
45	Freestanding Flexible Li ₂ S Paper Electrode with High Mass and Capacity Loading for High-Energy Li-S Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1700018.	19.5	152
46	Nitrogen-Doped Graphene Nanoribbons with Surface Enriched Active Sites and Enhanced Performance for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1500180.	19.5	147
47	Polymer/Graphene Hybrid Aerogel with High Compressibility, Conductivity, and "Sticky" Superhydrophobicity. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3242-3249.	8.0	140
48	Robust NiCoP/CoP Heterostructures for Highly Efficient Hydrogen Evolution Electrocatalysis in Alkaline Solution. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15528-15536.	8.0	139
49	Graphene Sheets from Graphitized Anthracite Coal: Preparation, Decoration, and Application. <i>Energy & Fuels</i> , 2012, 26, 5186-5192.	5.1	136
50	Highly atom-economic synthesis of graphene/Mn ₃ O ₄ hybrid composites for electrochemical supercapacitors. <i>Nanoscale</i> , 2013, 5, 2999.	5.6	128
51	Effect of activation time on the properties of activated carbons prepared by microwave-assisted activation for electric double layer capacitors. <i>Carbon</i> , 2010, 48, 1662-1669.	10.3	126
52	A Polymetallic Metal-Organic Framework-Derived Strategy toward Synergistically Multidoped Metal Oxide Electrodes with Ultralong Cycle Life and High Volumetric Capacity. <i>Advanced Functional Materials</i> , 2017, 27, 1605332.	14.9	116
53	Interlayer expanded MoS ₂ enabled by edge effect of graphene nanoribbons for high performance lithium and sodium ion batteries. <i>Carbon</i> , 2016, 109, 461-471.	10.3	114
54	Lattice distortion induced internal electric field in TiO ₂ photoelectrode for efficient charge separation and transfer. <i>Nature Communications</i> , 2020, 11, 2129.	12.8	108

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55	Boron-doped graphene as a high-efficiency counter electrode for dye-sensitized solar cells. <i>Chemical Communications</i> , 2014, 50, 3328.	4.1	107
56	Ultrasound-assisted preparation of electrospun carbon fiber/graphene electrodes for capacitive deionization: Importance and unique role of electrical conductivity. <i>Carbon</i> , 2016, 103, 311-317.	10.3	105
57	3D self-assembly synthesis of hierarchical porous carbon from petroleum asphalt for supercapacitors. <i>Carbon</i> , 2018, 134, 345-353.	10.3	103
58	Flexible Paper-like Free-Standing Electrodes by Anchoring Ultrafine SnS ₂ Nanocrystals on Graphene Nanoribbons for High-Performance Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15484-15491.	8.0	102
59	Ultrafast Fabrication of Covalently Cross-Linked Multifunctional Graphene Oxide Monoliths. <i>Advanced Functional Materials</i> , 2014, 24, 4915-4921.	14.9	101
60	Design and Fabrication of Hierarchical NiCo-MOF Heterostructure with Enhanced Pseudocapacitive Properties. <i>Small</i> , 2021, 17, e2100353.	10.0	101
61	Graphene-mediated highly-dispersed MoS ₂ nanosheets with enhanced triiodide reduction activity for dye-sensitized solar cells. <i>Carbon</i> , 2016, 100, 474-483.	10.3	100
62	Synthesis of a carbon nanofiber/carbon foam composite from coal liquefaction residue for the separation of oil and water. <i>Carbon</i> , 2013, 59, 530-536.	10.3	99
63	Dually Fixed SnO ₂ Nanoparticles on Graphene Nanosheets by Polyaniline Coating for Superior Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2444-2451.	8.0	99
64	Preparation of carbon nanosheets from petroleum asphalt via recyclable molten-salt method for superior lithium and sodium storage. <i>Carbon</i> , 2017, 122, 344-351.	10.3	99
65	Low temperature plasma synthesis of mesoporous Fe ₃ O ₄ nanorods grafted on reduced graphene oxide for high performance lithium storage. <i>Nanoscale</i> , 2014, 6, 2286.	5.6	97
66	Ultrasound-assisted preparation of electrospun carbon nanofiber/graphene composite electrode for supercapacitors. <i>Journal of Power Sources</i> , 2013, 243, 350-353.	7.8	92
67	Intrinsic Defect-Rich Hierarchically Porous Carbon Architectures Enabling Enhanced Capture and Catalytic Conversion of Polysulfides. <i>ACS Nano</i> , 2020, 14, 6222-6231.	14.6	89
68	Operando Revealing Dynamic Reconstruction of NiCo Carbonate Hydroxide for High-Rate Energy Storage. <i>Joule</i> , 2020, 4, 673-687.	24.0	88
69	Chemically grafting graphene oxide to B,N co-doped graphene via ionic liquid and their superior performance for triiodide reduction. <i>Nano Energy</i> , 2016, 25, 184-192.	16.0	87
70	Accelerating polysulfide redox conversion on bifunctional electrocatalytic electrode for stable Li-S batteries. <i>Energy Storage Materials</i> , 2019, 20, 98-107.	18.0	87
71	Synthesis of ultrathin hollow carbon shell from petroleum asphalt for high-performance anode material in lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2016, 286, 632-639.	12.7	86
72	Highly Efficient Low-Temperature Plasma-Assisted Modification of TiO ₂ Nanosheets with Exposed {001} Facets for Enhanced Visible-Light Photocatalytic Activity. <i>Chemistry - A European Journal</i> , 2014, 20, 14763-14770.	3.3	81

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73	A Universal Converse Voltage Process for Triggering Transition Metal Hybrids In Situ Phase Restruction toward Ultrahigh-Rate Supercapacitors. <i>Advanced Materials</i> , 2019, 31, e1901241.	21.0	81
74	Nanopore-confined g-C ₃ N ₄ 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
75	Preparation of porous carbons from petroleum coke by different activation methods. <i>Fuel</i> , 2005, 84, 1992-1997.	6.4	79
76	Highly stable lithium-sulfur batteries based on n heterojunctions embedded on hollow sheath carbon propelling polysulfides conversion. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9230-9240.	10.3	79
77	Graphene oxide-induced synthesis of button-shaped amorphous Fe ₂ O ₃ /rGO/CNFs films as flexible anode for high-performance lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2019, 369, 215-222.	12.7	79
78	The Mechanism of Piezocatalysis: Energy Band Theory or Screening Charge Effect?. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202110429.	13.8	79
79	Nitrogen-rich carbon coupled multifunctional metal oxide/graphene nanohybrids for long-life lithium storage and efficient oxygen reduction. <i>Nano Energy</i> , 2015, 12, 578-587.	16.0	76
80	Laser Irradiation of Electrode Materials for Energy Storage and Conversion. <i>Matter</i> , 2020, 3, 95-126.	10.0	74
81	Three-dimensional ZnMn ₂ O ₄ /porous carbon framework from petroleum asphalt for high performance lithium-ion battery. <i>Electrochimica Acta</i> , 2015, 180, 164-172.	5.2	73
82	Two-dimensional graphene-like N, Co-codoped carbon nanosheets derived from ZIF-67 polyhedrons for efficient oxygen reduction reactions. <i>Chemical Communications</i> , 2017, 53, 7840-7843.	4.1	70
83	Reacquainting the Electrochemical Conversion Mechanism of FeS ₂ Sodium-Ion Batteries by Operando Magnetometry. <i>Journal of the American Chemical Society</i> , 2021, 143, 12800-12808.	13.7	69
84	Direct Conversion of CO ₂ to Ethanol Boosted by Intimacy-Sensitive Multifunctional Catalysts. <i>ACS Catalysis</i> , 2021, 11, 11742-11753.	11.2	69
85	Nitrogen-doped carbon nanotubes decorated with cobalt nanoparticles derived from zeolitic imidazolate framework-67 for highly efficient oxygen reduction reaction electrocatalysis. <i>Carbon</i> , 2018, 132, 580-588.	10.3	68
86	Decorating ZIF-67-derived cobalt-nitrogen doped carbon nanocapsules on 3D carbon frameworks for efficient oxygen reduction and oxygen evolution. <i>Carbon</i> , 2021, 177, 344-356.	10.3	67
87	Microwave-assisted synthesis of MoS ₂ /graphene nanocomposites for efficient hydrodesulfurization. <i>Fuel</i> , 2014, 119, 163-169.	6.4	66
88	Fe/Fe ₃ C Boosts H ₂ O ₂ Utilization for Methane Conversion Overwhelming O ₂ Generation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8889-8895.	13.8	66
89	Dual integration system endowing two-dimensional titanium disulfide with enhanced triiodide reduction performance in dye-sensitized solar cells. <i>Nano Energy</i> , 2016, 22, 59-69.	16.0	65
90	Low temperature plasma-mediated synthesis of graphene nanosheets for supercapacitor electrodes. <i>Journal of Materials Chemistry</i> , 2012, 22, 6061.	6.7	64

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91	Highly controllable and green reduction of graphene oxide to flexible graphene film with high strength. <i>Materials Research Bulletin</i> , 2013, 48, 4797-4803.	5.2	64
92	Double-shelled Nanocages with Cobalt Hydroxide Inner Shell and Layered Double Hydroxides Outer Shell as High-efficiency Polysulfide Mediator for Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2016, 128, 4050-4054.	2.0	62
93	Low-temperature plasma-assisted preparation of graphene supported palladium nanoparticles with high hydrodesulfurization activity. <i>Journal of Materials Chemistry</i> , 2012, 22, 14363.	6.7	61
94	Pickering Emulsion Catalysis: Interfacial Chemistry, Catalyst Design, Challenges, and Perspectives. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	60
95	Unraveling the Synergy of Chemical Hydroxylation and the Physical Heterointerface upon Improving the Hydrogen Evolution Kinetics. <i>ACS Nano</i> , 2021, 15, 15017-15026.	14.6	59
96	Heavy oil-derived carbon for energy storage applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7066-7082.	10.3	57
97	Nitrogen-doped hierarchical porous carbon derived from metal-organic aerogel for high performance lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2017, 26, 1282-1290.	12.9	56
98	Promoting the electroreduction of CO ₂ with oxygen vacancies on a plasma-activated SnO _x /carbon foam monolithic electrode. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1779-1786.	10.3	56
99	Water-Soluble Salt Template-Assisted Anchor of Hollow FeS ₂ Nanoparticle Inside 3D Carbon Skeleton to Achieve Fast Potassium-Ion Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2101343.	19.5	56
100	Electrochemical and Capacitive Properties of Carbon Dots/Reduced Graphene Oxide Supercapacitors. <i>Nanomaterials</i> , 2016, 6, 212.	4.1	55
101	Nitrogen and phosphorus dual-doped graphene as a metal-free high-efficiency electrocatalyst for triiodide reduction. <i>Nanoscale</i> , 2016, 8, 17458-17464.	5.6	55
102	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. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11331-11339.	10.3	54
103	Boosting the Pseudocapacitive and High Mass-Loaded Lithium/Sodium Storage through Bonding Polyoxometalate Nanoparticles on MXene Nanosheets. <i>Advanced Functional Materials</i> , 2021, 31, 2007636.	14.9	53
104	Synthesis of layered microporous carbons from coal tar by directing, space-confinement and self-sacrificed template strategy for supercapacitors. <i>Electrochimica Acta</i> , 2017, 246, 634-642.	5.2	52
105	Green fabrication of magnetic recoverable graphene/MnFe ₂ O ₄ hybrids for efficient decomposition of methylene blue and the Mn/Fe redox synergetic mechanism. <i>RSC Advances</i> , 2016, 6, 104549-104555.	3.6	50
106	Multifunctional nitrogen-doped graphene nanoribbon aerogels for superior lithium storage and cell culture. <i>Nanoscale</i> , 2016, 8, 2159-2167.	5.6	50
107	Three-dimensional printing of high-mass loading electrodes for energy storage applications. <i>Informa Materials</i> , 2021, 3, 631-647.	17.3	50
108	Carbon-enabled microwave chemistry: From interaction mechanisms to nanomaterial manufacturing. <i>Nano Energy</i> , 2021, 85, 106027.	16.0	50

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109	A green and template recyclable approach to prepare Fe ₃ O ₄ /porous carbon from petroleum asphalt for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 695, 2612-2618.	5.5	49
110	A Portable and Efficient Solar-Rechargeable Battery with Ultrafast Photo-Charge/Discharge Rate. <i>Advanced Energy Materials</i> , 2019, 9, 1900872.	19.5	49
111	Boosting the performance of hybrid supercapacitors through redox electrolyte-mediated capacity balancing. <i>Nano Energy</i> , 2020, 68, 104226.	16.0	48
112	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
113	Towards efficient electrocatalysts for oxygen reduction by doping cobalt into graphene-supported graphitic carbon nitride. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19657-19661.	10.3	47
114	Polymer casting of ultralight graphene aerogels for the production of conductive nanocomposites with low filling content. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3756-3760.	10.3	46
115	Graphene oxide liquid crystal Pickering emulsions and their assemblies. <i>Carbon</i> , 2015, 85, 16-23.	10.3	46
116	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
117	Carbon dots-oriented synthesis of fungus-like CoP microspheres as a bifunctional electrocatalyst for efficient overall water splitting. <i>Carbon</i> , 2021, 182, 327-334.	10.3	46
118	Self-Supported Amorphous SnO ₂ /TiO ₂ Nanocomposite Films with Improved Electrochemical Performance for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3072-A3078.	2.9	45
119	Green and scalable synthesis of porous carbon nanosheet-assembled hierarchical architectures for robust capacitive energy harvesting. <i>Carbon</i> , 2019, 152, 537-544.	10.3	45
120	Applications of nanogenerators for biomedical engineering and healthcare systems. <i>Information Materials</i> , 2022, 4, .	17.3	45
121	SnO ₂ nanoflower arrays on an amorphous buffer layer as binder-free electrodes for flexible lithium-ion batteries. <i>Applied Surface Science</i> , 2020, 527, 146910.	6.1	42
122	Electrolysis removal of methyl orange dye from water by electrospun activated carbon fibers modified with carbon nanotubes. <i>Chemical Engineering Journal</i> , 2014, 253, 73-77.	12.7	41
123	Sulfur bridges between Co ₉ S ₈ nanoparticles and carbon nanotubes enabling robust oxygen electrocatalysis. <i>Carbon</i> , 2019, 144, 259-268.	10.3	41
124	Three-dimensional hierarchical Na ₃ Fe ₂ (PO ₄) ₃ /C with superior and fast sodium uptake for efficient hybrid capacitive deionization. <i>Desalination</i> , 2021, 520, 115341.	8.2	41
125	Non-corrosive and low-cost synthesis of hierarchically porous carbon frameworks for high-performance lithium-ion capacitors. <i>Carbon</i> , 2021, 173, 646-654.	10.3	40
126	Manipulation of interlayer spacing and surface charge of carbon nanosheets for robust lithium/sodium storage. <i>Carbon</i> , 2019, 153, 372-380.	10.3	39

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127	Self-supported transition metal oxide electrodes for electrochemical energy storage. <i>Tungsten</i> , 2020, 2, 337-361.	4.8	39
128	Sub-5-nm Monolayer Silicane Transistor: A First-Principles Quantum Transport Simulation. <i>Physical Review Applied</i> , 2020, 14, .	3.8	38
129	Unusual Formation of CoSe@carbon Nanoboxes, which have an Inhomogeneous Shell, for Efficient Lithium Storage. <i>Angewandte Chemie</i> , 2016, 128, 9666-9670.	2.0	37
130	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
131	Polycyclic Aromatic Hydrocarbons as a New Class of Promising Cathode Materials for Aluminum-ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202114681.	13.8	37
132	A non-toxic triboelectric nanogenerator for baby care applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22745-22753.	10.3	36
133	Polyethyleneimine-Mediated Fabrication of Two-Dimensional Cobalt Sulfide/Graphene Hybrid Nanosheets for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26235-26242.	8.0	35
134	Influence of pore structures on the electrochemical performance of asphaltene-based ordered mesoporous carbons. <i>Microporous and Mesoporous Materials</i> , 2013, 174, 67-73.	4.4	34
135	The Mechanism of Piezocatalysis: Energy Band Theory or Screening Charge Effect?. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	34
136	Chemically patterned polyaniline arrays located on pyrolytic graphene for supercapacitors. <i>Carbon</i> , 2014, 80, 799-807.	10.3	32
137	Compressible graphene aerogel supported CoO nanostructures as a binder-free electrode for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 8929-8932.	3.6	32
138	Nitrogen-doped tubular/porous carbon channels implanted on graphene frameworks for multiple confinement of sulfur and polysulfides. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10380-10386.	10.3	32
139	Unlocking the potential of commercial carbon nanofibers as free-standing positive electrodes for flexible aluminum ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15123-15130.	10.3	32
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