Jie-Shan Qiu

List of Publications by Year
in descending order

695	50,922	1163 111	3173 186
papers	citations	h-index	g-index

703	703	703	39930
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flexible and conductive MXene films and nanocomposites with high capacitance. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16676-16681.	3.3	1,713
2	Ultralight and Highly Compressible Graphene Aerogels. Advanced Materials, 2013, 25, 2219-2223.	11.1	1,249
3	Preparation and Characterization of Multiwalled Carbon Nanotube-Supported Platinum for Cathode Catalysts of Direct Methanol Fuel Cells. Journal of Physical Chemistry B, 2003, 107, 6292-6299.	1.2	1,079
4	Enhancing lithiumâ€“sulphur battery performance by strongly binding the discharge products on amino-functionalized reduced graphene oxide. Nature Communications, 2014, 5, 5002.	5.8	892
5	Metalâ€“Organicâ€Frameworkâ€Derived Hybrid Carbon Nanocages as a Bifunctional Electrocatalyst for Oxygen Reduction and Evolution. Advanced Materials, 2017, 29, 1700874.	11.1	678
6	Electroactive edge site-enriched nickelâ€“cobalt sulfide into graphene frameworks for high-performance asymmetric supercapacitors. Energy and Environmental Science, 2016, 9, 1299-1307.	15.6	623
7	Sustainable Synthesis and Assembly of Biomassâ€Derived B/N Coâ€Doped Carbon Nanosheets with Ultrahigh Aspect Ratio for Highâ€Performance Supercapacitors. Advanced Functional Materials, 2016, 26, 111-119.	7.8	607
8	Stabilizing the MXenes by Carbon Nanoplating for Developing Hierarchical Nanohybrids with Efficient Lithium Storage and Hydrogen Evolution Capability. Advanced Materials, 2017, 29, 1607017.	11.1	583
9	High performance hybrid solar cells sensitized by organolead halide perovskites. Energy and Environmental Science, 2013, 6, 1480.	15.6	582
10	Design and fabrication of carbon dots for energy conversion and storage. Chemical Society Reviews, 2019, 48, 2315-2337.	18.7	552
11	Boosting electrocatalytic oxygen evolution by synergistically coupling layered double hydroxide with MXene. Nano Energy, 2018, 44, 181-190.	8.2	458
12	Low-cost dye-sensitized solar cell based on nine kinds of carbon counter electrodes. Energy and Environmental Science, 2011, 4, 2308.	15.6	434
13	Aggregation-Resistant 3D MXene-Based Architecture as Efficient Bifunctional Electrocatalyst for Overall Water Splitting. ACS Nano, 2018, 12, 8017-8028.	7.3	425
14	Carbon nanotubes as support for cathode catalyst of a direct methanol fuel cell. Carbon, 2002, 40, 791-794.	5.4	402
15	Carbon foam: Preparation and application. Carbon, 2015, 87, 128-152.	5.4	347
16	High energy-power Zn-ion hybrid supercapacitors enabled by layered B/N co-doped carbon cathode. Nano Energy, 2019, 66, 104132.	8.2	344
17	Activated carbon nanofiber webs made by electrospinning for capacitive deionization. Electrochimica Acta, 2012, 69, 65-70.	2.6	334
18	Efficient preparation of biomass-based mesoporous carbons for supercapacitors with both high energy density and high power density. Journal of Power Sources, 2013, 240, 109-113.	4.0	329

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19	A Layeredâ€Nanospaceâ€Confinement Strategy for the Synthesis of Twoâ€Dimensional Porous Carbon Nanosheets for Highâ€Rate Performance Supercapacitors. Advanced Energy Materials, 2015, 5, 1401761.	10.2	308
20	Ultrafine MoO₂â€Carbon Microstructures Enable Ultralongâ€Life Powerâ€Type Sodium Ion Storage by Enhanced Pseudocapacitance. Advanced Energy Materials, 2017, 7, 1602880.	10.2	306
21	Synthesis of Fe3O4@ZIF-8 magnetic coreâ€“shell microspheres and their potential application in a capillary microreactor. Chemical Engineering Journal, 2013, 228, 398-404.	6.6	301
22	Superhierarchical Cobaltâ€Embedded Nitrogenâ€Doped Porous Carbon Nanosheets as Twoâ€inâ€One Hosts for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Materials, 2018, 30, e1706895.	11.1	300
23	A superhydrophilic â€œnanoglueâ€ for stabilizing metal hydroxides onto carbon materials for high-energy and ultralong-life asymmetric supercapacitors. Energy and Environmental Science, 2017, 10, 1958-1965.	15.6	294
24	A Flexible TiO₂(B)â€Based Battery Electrode with Superior Power Rate and Ultralong Cycle Life. Advanced Materials, 2013, 25, 3462-3467.	11.1	286
25	A hierarchically porous and hydrophilic 3D nickelâ€“iron/MXene electrode for accelerating oxygen and hydrogen evolution at high current densities. Nano Energy, 2019, 63, 103880.	8.2	275
26	Strategies to suppress hydrogen evolution for highly selective electrocatalytic nitrogen reduction: challenges and perspectives. Energy and Environmental Science, 2021, 14, 1176-1193.	15.6	275
27	Enhanced sodium storage capability enabled by super wide-interlayer-spacing MoS2 integrated on carbon fibers. Nano Energy, 2017, 41, 66-74.	8.2	273
28	Iron-tuned super nickel phosphide microstructures with high activity for electrochemical overall water splitting. Nano Energy, 2017, 34, 472-480.	8.2	258
29	Synthesis of mesoporous carbons for supercapacitors from coal tar pitch by coupling microwave-assisted KOH activation with a MgO template. Carbon, 2012, 50, 4911-4921.	5.4	256
30	Electrochemical ammonia synthesis: Mechanistic understanding and catalyst design. CheM, 2021, 7, 1708-1754.	5.8	253
31	3D Architecture Materials Made of NiCoAlâ€LDH Nanoplates Coupled with NiCoâ€Carbonate Hydroxide Nanowires Grown on Flexible Graphite Paper for Asymmetric Supercapacitors. Advanced Energy Materials, 2014, 4, 1400761.	10.2	251
32	The role of microwave absorption on formation of graphene from graphite oxide. Carbon, 2012, 50, 3267-3273.	5.4	250
33	Energy-saving hydrogen production by chlorine-free hybrid seawater splitting coupling hydrazine degradation. Nature Communications, 2021, 12, 4182.	5.8	233
34	Strategies and insights towards the intrinsic capacitive properties of MnO2 for supercapacitors: Challenges and perspectives. Nano Energy, 2019, 57, 459-472.	8.2	232
35	3D Porous Nâ€Doped Graphene Frameworks Made of Interconnected Nanocages for Ultrahighâ€Rate and Longâ€Life Liâ€“O₂ Batteries. Advanced Functional Materials, 2015, 25, 6913-6920.	7.8	231
36	Ultrafast Selfâ€Assembly of Graphene Oxideâ€Induced Monolithic NiCoâ€“Carbonate Hydroxide Nanowire Architectures with a Superior Volumetric Capacitance for Supercapacitors. Advanced Functional Materials, 2015, 25, 2109-2116.	7.8	230

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37	Engineering hollow polyhedrons structured from carbon-coated CoSe₂ nanospheres bridged by CNTs with boosted sodium storage performance. Journal of Materials Chemistry A, 2017, 5, 13591-13600.	5.2	225
38	Activated TiO2 with tuned vacancy for efficient electrochemical nitrogen reduction. Applied Catalysis B: Environmental, 2019, 257, 117896.	10.8	220
39	Facile synthesis of sandwich-like polyaniline/boron-doped graphene nano hybrid for supercapacitors. Carbon, 2015, 81, 552-563.	5.4	218
40	Nitrogen-doped activated carbon derived from prawn shells for high-performance supercapacitors. Electrochimica Acta, 2016, 190, 1134-1141.	2.6	217
41	Ultrasensitive Ironâ€Triggered Nanosized Feâ€“CoOOH Integrated with Graphene for Highly Efficient Oxygen Evolution. Advanced Energy Materials, 2017, 7, 1602148.	10.2	216
42	Surface modification of biomass-derived hard carbon by grafting porous carbon nanosheets for high-performance supercapacitors. Journal of Materials Chemistry A, 2018, 6, 15954-15960.	5.2	216
43	Hierarchical activated carbon nanofiber webs with tuned structure fabricated by electrospinning for capacitive deionization. Journal of Materials Chemistry, 2012, 22, 21819.	6.7	215
44	Surfaceâ€Confined Fabrication of Ultrathin Nickel Cobaltâ€Layered Double Hydroxide Nanosheets for Highâ€Performance Supercapacitors. Advanced Functional Materials, 2018, 28, 1803272.	7.8	215
45	Compressible Carbon Nanotubeâ€“Graphene Hybrid Aerogels with Superhydrophobicity and Superoleophilicity for Oil Sorption. Environmental Science and Technology Letters, 2014, 1, 214-220.	3.9	212
46	ZnO template strategy for the synthesis of 3D interconnected graphene nanocapsules from coal tar pitch as supercapacitor electrode materials. Journal of Power Sources, 2017, 340, 183-191.	4.0	212
47	Preparation of functionalized water-soluble photoluminescent carbon quantum dots from petroleum coke. Carbon, 2014, 78, 480-489.	5.4	210
48	A Topâ€Down Strategy toward 3D Carbon Nanosheet Frameworks Decorated with Hollow Nanostructures for Superior Lithium Storage. Advanced Functional Materials, 2016, 26, 7590-7598.	7.8	201
49	New Membrane Architecture with High Performance: ZIF-8 Membrane Supported on Vertically Aligned ZnO Nanorods for Gas Permeation and Separation. Chemistry of Materials, 2014, 26, 1975-1981.	3.2	199
50	Highly mesoporous activated carbon electrode for capacitive deionization. Separation and Purification Technology, 2013, 103, 216-221.	3.9	198
51	Engineering Multifunctional Collaborative Catalytic Interface Enabling Efficient Hydrogen Evolution in All pH Range and Seawater. Advanced Energy Materials, 2019, 9, 1901333.	10.2	196
52	Facile fabrication of MWCNT-doped NiCoAl-layered double hydroxide nanosheets with enhanced electrochemical performances. Journal of Materials Chemistry A, 2013, 1, 1963-1968.	5.2	193
53	Highly efficient synthesis of graphene/MnO2 hybrids and their application for ultrafast oxidative decomposition of methylene blue. Carbon, 2014, 66, 485-492.	5.4	189
54	Highly Stretchable and Ultrasensitive Strain Sensor Based on Reduced Graphene Oxide Microtubesâ€“Elastomer Composite. ACS Applied Materials & Interfaces, 2015, 7, 27432-27439.	4.0	189

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55	Electrochemical CO2 reduction to C2+ species: Heterogeneous electrocatalysts, reaction pathways, and optimization strategies. Materials Today Energy, 2018, 10, 280-301.	2.5	188
56	Recent advances in innovative strategies for the CO₂ electroreduction reaction. Energy and Environmental Science, 2021, 14, 765-780.	15.6	188
57	Chemically Tailoring Coal to Fluorescent Carbon Dots with Tuned Size and Their Capacity for Cu(II) Detection. Small, 2014, 10, 4926-4933.	5.2	186
58	Carbon-supported Ni nanoparticles for efficient CO₂ electroreduction. Chemical Science, 2018, 9, 8775-8780.	3.7	179
59	Perspectives on solution processing of two-dimensional MXenes. Materials Today, 2021, 48, 214-240.	8.3	178
60	Nanohybrids from NiCoAl-LDH coupled with carbon for pseudocapacitors: understanding the role of nano-structured carbon. Nanoscale, 2014, 6, 3097-3104.	2.8	176
61	NiCo-layered double hydroxides vertically assembled on carbon fiber papers as binder-free high-active electrocatalysts for water oxidation. Carbon, 2016, 110, 1-7.	5.4	175
62	Ag/SiO2: a novel catalyst with high activity and selectivity for hydrogenation of chloronitrobenzenes. Chemical Communications, 2005, , 5298.	2.2	174
63	Restructuring of Cu₂O to Cu₂O@Cu-Metalâ€“Organic Frameworks for Selective Electrochemical Reduction of CO₂. ACS Applied Materials & Interfaces, 2019, 11, 9904-9910.	4.0	174
64	Hydrothermal synthesis and activation of graphene-incorporated nitrogen-rich carbon composite for high-performance supercapacitors. Carbon, 2014, 70, 130-141.	5.4	171
65	P/N co-doped microporous carbons from H3PO4-doped polyaniline by in situ activation for supercapacitors. Carbon, 2013, 59, 537-546.	5.4	169
66	Direct synthesis of 3D hollow porous graphene balls from coal tar pitch for high performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 19633-19640.	5.2	169
67	Formation of two-dimensional transition metal oxide nanosheets with nanoparticles as intermediates. Nature Materials, 2019, 18, 970-976.	13.3	169
68	Rapid and energy-efficient microwave pyrolysis for high-yield production of highly-active bifunctional electrocatalysts for water splitting. Energy and Environmental Science, 2020, 13, 545-553.	15.6	169
69	A layered-template-nanospace-confinement strategy for production of corrugated graphene nanosheets from petroleum pitch for supercapacitors. Chemical Engineering Journal, 2016, 297, 121-127.	6.6	168
70	Surface-treated carbon electrodes with modified potential of zero charge for capacitive deionization. Water Research, 2016, 93, 30-37.	5.3	168
71	Toward commercial-level mass-loading electrodes for supercapacitors: opportunities, challenges and perspectives. Energy and Environmental Science, 2021, 14, 576-601.	15.6	166
72	Mass and Charge Transfer Coenhanced Oxygen Evolution Behaviors in CoFeâ€Layered Double Hydroxide Assembled on Graphene. Advanced Materials Interfaces, 2016, 3, 1500782.	1.9	165

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73	MXene-Based Electrode with Enhanced Pseudocapacitance and Volumetric Capacity for Power-Type and Ultra-Long Life Lithium Storage. ACS Nano, 2018, 12, 3928-3937.	7.3	163
74	Sustainable synthesis of phosphorus- and nitrogen-co-doped porous carbons with tunable surface properties for supercapacitors. Journal of Power Sources, 2013, 239, 81-88.	4.0	162
75	Synthesis of hierarchical porous carbons for supercapacitors from coal tar pitch with nano-Fe2O3 as template and activation agent coupled with KOH activation. Journal of Materials Chemistry A, 2013, 1, 9440.	5.2	162
76	Nitrogen-doped carbon dots decorated on graphene: a novel all-carbon hybrid electrocatalyst for enhanced oxygen reduction reaction. Chemical Communications, 2015, 51, 3419-3422.	2.2	157
77	Scrutinizing Defects and Defect Density of Seleniumâ€Doped Graphene for Highâ€Efficiency Triiodide Reduction in Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2018, 57, 4682-4686.	7.2	155
78	Ultrahigh Rate and Longâ€Life Sodiumâ€Ion Batteries Enabled by Engineered Surface and Nearâ€Surface Reactions. Advanced Materials, 2018, 30, 1702486.	11.1	153
79	Freestanding Flexible Li₂S Paper Electrode with High Mass and Capacity Loading for Highâ€Energy Liâ€“S Batteries. Advanced Energy Materials, 2017, 7, 1700018.	10.2	152
80	Boric acid-mediated B,N-codoped chitosan-derived porous carbons with a high surface area and greatly improved supercapacitor performance. Nanoscale, 2015, 7, 5120-5125.	2.8	151
81	Porous carbon nanosheets from coal tar for high-performance supercapacitors. Journal of Power Sources, 2017, 357, 41-46.	4.0	150
82	Oxygen vacancy enables electrochemical N2 fixation over WO3 with tailored structure. Nano Energy, 2019, 62, 869-875.	8.2	150
83	Multilevel Hollow MXene Tailored Lowâ€Pt Catalyst for Efficient Hydrogen Evolution in Fullâ€pH Range and Seawater. Advanced Functional Materials, 2020, 30, 1910028.	7.8	150
84	Cobalt-embedded nitrogen-doped hollow carbon nanorods for synergistically immobilizing the discharge products in lithiumâ€“sulfur battery. Energy Storage Materials, 2016, 5, 223-229.	9.5	149
85	Nitrogenâ€Doped Graphene Nanoribbons with Surface Enriched Active Sites and Enhanced Performance for Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2015, 5, 1500180.	10.2	147
86	Homogeneous and controllable Pt particles deposited on multi-wall carbon nanotubes as cathode catalyst for direct methanol fuel cells. Carbon, 2004, 42, 436-439.	5.4	142
87	Photocatalytic Fixation of Nitrogen to Ammonia by Single Ru Atom Decorated TiO₂ Nanosheets. ACS Sustainable Chemistry and Engineering, 2019, 7, 6813-6820.	3.2	142
88	Polymer/Graphene Hybrid Aerogel with High Compressibility, Conductivity, and â€œStickyâ€• Superhydrophobicity. ACS Applied Materials & Interfaces, 2014, 6, 3242-3249.	4.0	140
89	A simple and scalable method for preparing low-defect ZIF-8 tubular membranes. Journal of Materials Chemistry A, 2013, 1, 10635.	5.2	139
90	Thinâ€Sheet Carbon Nanomesh with an Excellent Electrocapacitive Performance. Advanced Functional Materials, 2015, 25, 5420-5427.	7.8	139

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91	Graphene Sheets from Graphitized Anthracite Coal: Preparation, Decoration, and Application. Energy & Fuels, 2012, 26, 5186-5192.	2.5	136
92	Preparation of coal-based microfiltration carbon membrane and application in oily wastewater treatment. Separation and Purification Technology, 2006, 51, 80-84.	3.9	133
93	Asymmetric capacitive deionization utilizing nitric acid treated activated carbon fiber as the cathode. Electrochimica Acta, 2015, 176, 426-433.	2.6	130
94	N/P-Codoped Thermally Reduced Graphene for High-Performance Supercapacitor Applications. Journal of Physical Chemistry C, 2013, 117, 14912-14919.	1.5	128
95	Carbon-Stabilized Interlayer-Expanded Few-Layer MoSe₂ Nanosheets for Sodium Ion Batteries with Enhanced Rate Capability and Cycling Performance. ACS Applied Materials & Interfaces, 2016, 8, 32324-32332.	4.0	128
96	Mesoporous microspheres composed of carbon-coated TiO2 nanocrystals with exposed {001} facets for improved visible light photocatalytic activity. Applied Catalysis B: Environmental, 2014, 147, 958-964.	10.8	127
97	Zinc-blende ZnO and its role in nucleating wurtzite tetrapods and twinned nanowires. Applied Physics Letters, 2007, 90, 153510.	1.5	126
98	Effect of activation time on the properties of activated carbons prepared by microwave-assisted activation for electric double layer capacitors. Carbon, 2010, 48, 1662-1669.	5.4	126
99	Aerobic oxidation of alcohols over carbon nanotube-supported Ru catalysts assembled at the interfaces of emulsion droplets. Applied Catalysis A: General, 2010, 382, 131-137.	2.2	124
100	Highly Stable Hybrid Capacitive Deionization with a MnO₂ Anode and a Positively Charged Cathode. Environmental Science and Technology Letters, 2018, 5, 98-102.	3.9	124
101	Solvothermal conversion of coal into nitrogen-doped carbon dots with singlet oxygen generation and high quantum yield. Chemical Engineering Journal, 2017, 320, 570-575.	6.6	123
102	Cascade charge transfer enabled by incorporating edge-enriched graphene nanoribbons for mesostructured perovskite solar cells with enhanced performance. Nano Energy, 2018, 52, 123-133.	8.2	123
103	A green strategy for the synthesis of graphene supported Mn 3 O 4 nanocomposites from graphitized coal and their supercapacitor application. Carbon, 2014, 80, 640-650.	5.4	121
104	Rice husk-based hierarchical porous carbon for high performance supercapacitors: The structure-performance relationship. Carbon, 2020, 161, 432-444.	5.4	121
105	Starch Derived Porous Carbon Nanosheets for High-Performance Photovoltaic Capacitive Deionization. Environmental Science & Technology, 2017, 51, 9244-9251.	4.6	120
106	In situ fabrication of a perfect Pd/ZnO@ZIF-8 coreâ€“shell microsphere as an efficient catalyst by a ZnO support-induced ZIF-8 growth strategy. Nanoscale, 2015, 7, 7615-7623.	2.8	118
107	Selective catalytic reduction of nitrogen oxides by ammonia over Co3O4 nanocrystals with different shapes. Applied Catalysis B: Environmental, 2013, 129, 491-500.	10.8	117
108	Bridging of Ultrathin NiCo₂O₄ Nanosheets and Graphene with Polyaniline: A Theoretical and Experimental Study. Chemistry of Materials, 2016, 28, 5855-5863.	3.2	116

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109	A Polymetallic Metalâ€Organic Frameworkâ€Derived Strategy toward Synergistically Multidoped Metal Oxide Electrodes with Ultralong Cycle Life and High Volumetric Capacity. Advanced Functional Materials, 2017, 27, 1605332.	7.8	116
110	GO-guided direct growth of highly oriented metalâ€“organic framework nanosheet membranes for H₂/CO₂ separation. Chemical Science, 2018, 9, 4132-4141.	3.7	116
111	Membrane-Free Hybrid Capacitive Deionization System Based on Redox Reaction for High-Efficiency NaCl Removal. Environmental Science & Technology, 2019, 53, 6292-6301.	4.6	116
112	Electrospun Composites Made of Reduced Graphene Oxide and Activated Carbon Nanofibers for Capacitive Deionization. Electrochimica Acta, 2014, 137, 388-394.	2.6	115
113	A simple and efficient protocol for a palladium-catalyzed ligand-free Suzuki reaction at room temperature in aqueous DMF. Green Chemistry, 2011, 13, 1260.	4.6	114
114	Interlayer expanded MoS 2 enabled by edge effect of graphene nanoribbons for high performance lithium and sodium ion batteries. Carbon, 2016, 109, 461-471.	5.4	114
115	Highly stable two-dimensional bismuth metal-organic frameworks for efficient electrochemical reduction of CO2. Applied Catalysis B: Environmental, 2020, 277, 119241.	10.8	109
116	Recent research advances of self-discharge in supercapacitors: Mechanisms and suppressing strategies. Journal of Energy Chemistry, 2021, 58, 94-109.	7.1	109
117	A rapid synthesis route for Sn-Beta zeolites by steam-assisted conversion and their catalytic performance in Baeyerâ€“Villiger oxidation. Chemical Engineering Journal, 2013, 218, 425-432.	6.6	107
118	Hydrothermal Synthesis of Phosphate-Functionalized Carbon Nanotube-Containing Carbon Composites for Supercapacitors with Highly Stable Performance. ACS Applied Materials & Interfaces, 2013, 5, 2104-2110.	4.0	107
119	Boron-doped graphene as a high-efficiency counter electrode for dye-sensitized solar cells. Chemical Communications, 2014, 50, 3328.	2.2	107
120	Interconnected sheet-like porous carbons from coal tar by a confined soft-template strategy for supercapacitors. Chemical Engineering Journal, 2018, 350, 49-56.	6.6	107
121	Luminescent Properties of Metalâ€“Organic Framework MOF-5: Relativistic Time-Dependent Density Functional Theory Investigations. Inorganic Chemistry, 2012, 51, 12389-12394.	1.9	106
122	Sulfur-infiltrated graphene-backboned mesoporous carbon nanosheets with a conductive polymer coating for long-life lithiumâ€“sulfur batteries. Nanoscale, 2015, 7, 7569-7573.	2.8	106
123	Construction of 3D nanostructure hierarchical porous graphitic carbons by charge-induced self-assembly and nanocrystal-assisted catalytic graphitization for supercapacitors. Chemical Communications, 2016, 52, 6673-6676.	2.2	106
124	Hierarchical porous carbon sheets derived from biomass containing an activation agent and in-built template for lithium ion batteries. Carbon, 2018, 139, 1085-1092.	5.4	106
125	Nitrogen-doped hierarchically porous carbon nanosheets derived from polymer/graphene oxide hydrogels for high-performance supercapacitors. Journal of Colloid and Interface Science, 2020, 560, 69-76.	5.0	106
126	Ultrasound-assisted preparation of electrospun carbon fiber/graphene electrodes for capacitive deionization: Importance and unique role of electrical conductivity. Carbon, 2016, 103, 311-317.	5.4	105

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127	Flexible Paper-like Free-Standing Electrodes by Anchoring Ultrafine SnS₂ Nanocrystals on Graphene Nanoribbons for High-Performance Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 15484-15491.	4.0	102
128	Progress and prospects of hydrogen production: Opportunities and challenges. Journal of Electronic Science and Technology, 2021, 19, 100080.	2.0	102
129	Ultrafast Fabrication of Covalently Crossâ€linked Multifunctional Graphene Oxide Monoliths. Advanced Functional Materials, 2014, 24, 4915-4921.	7.8	101
130	Cellular carbon-wrapped FeSe₂ nanocavities with ultrathin walls and multiple rooms for ion diffusion-confined ultrafast sodium storage. Journal of Materials Chemistry A, 2019, 7, 4469-4479.	5.2	101
131	Design and Fabrication of Hierarchical NiCoPâ€“MOF Heterostructure with Enhanced Pseudocapacitive Properties. Small, 2021, 17, e2100353.	5.2	101
132	A simple and efficient approach for the palladium-catalyzed ligand-free Suzuki reaction in water. Green Chemistry, 2012, 14, 2999.	4.6	100
133	Hydrothermal synthesis and electrochemical performance of Co3O4/reduced graphene oxide nanosheet composites for supercapacitors. Electrochimica Acta, 2013, 112, 120-126.	2.6	100
134	Graphene-mediated highly-dispersed MoS2 nanosheets with enhanced triiodide reduction activity for dye-sensitized solar cells. Carbon, 2016, 100, 474-483.	5.4	100
135	Synthesis of a carbon nanofiber/carbon foam composite from coal liquefaction residue for the separation of oil and water. Carbon, 2013, 59, 530-536.	5.4	99
136	Dually Fixed SnO₂ Nanoparticles on Graphene Nanosheets by Polyaniline Coating for Superior Lithium Storage. ACS Applied Materials & Interfaces, 2015, 7, 2444-2451.	4.0	99
137	Preparation of carbon nanosheets from petroleum asphalt via recyclable molten-salt method for superior lithium and sodium storage. Carbon, 2017, 122, 344-351.	5.4	99
138	BCN nanosheets templated by g-C₃N₄ for high performance capacitive deionization. Journal of Materials Chemistry A, 2018, 6, 14644-14650.	5.2	99
139	Efficient CO2 electroreduction over pyridinic-N active sites highly exposed on wrinkled porous carbon nanosheets. Chemical Engineering Journal, 2018, 351, 613-621.	6.6	99
140	Organic electron-rich N-heterocyclic compound as a chemical bridge: building a BrÃ¶nsted acidic ionic liquid confined in MIL-101 nanocages. Journal of Materials Chemistry A, 2013, 1, 6530.	5.2	98
141	Coal-based carbon anodes for high-performance potassium-ion batteries. Carbon, 2019, 147, 574-581.	5.4	98
142	Nitrogen-doped soft carbon frameworks built of well-interconnected nanocapsules enabling a superior potassium-ion batteries anode. Chemical Engineering Journal, 2020, 382, 121759.	6.6	98
143	Low temperature plasma synthesis of mesoporous Fe3O4 nanorods grafted on reduced graphene oxide for high performance lithium storage. Nanoscale, 2014, 6, 2286.	2.8	97
144	Pitch-derived N-doped porous carbon nanosheets with expanded interlayer distance as high-performance sodium-ion battery anodes. Fuel Processing Technology, 2018, 177, 328-335.	3.7	97

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145	3D nickel-cobalt phosphide heterostructure for high-performance solid-state hybrid supercapacitors. Journal of Power Sources, 2020, 467, 228324.	4.0	97
146	High-yield production of few-layer boron nanosheets for efficient electrocatalytic N₂ reduction. Chemical Communications, 2019, 55, 4246-4249.	2.2	96
147	Energyâ€Saving Hydrogen Production by Seawater Electrolysis Coupling Sulfion Degradation. Advanced Materials, 2022, 34, e2109321.	11.1	95
148	A novel form of carbon micro-balls from coal. Carbon, 2003, 41, 767-772.	5.4	94
149	Aerobic oxidation of alcohols over Au/TiO2: An insight on the promotion effect of water on the catalytic activity of Au/TiO2. Catalysis Communications, 2008, 9, 2278-2281.	1.6	92
150	Ultrasound-assisted preparation of electrospun carbon nanofiber/graphene composite electrode for supercapacitors. Journal of Power Sources, 2013, 243, 350-353.	4.0	92
151	Hydrodeoxygenation of vanillin over carbon nanotube-supported Ru catalysts assembled at the interfaces of emulsion droplets. Catalysis Communications, 2014, 47, 28-31.	1.6	92
152	High-energy quasi-solid-state supercapacitors enabled by carbon nanofoam from biowaste and high-voltage inorganic gel electrolyte. Carbon, 2019, 149, 273-280.	5.4	91
153	N, P co-doped hierarchical porous carbon from rapeseed cake with enhanced supercapacitance. Renewable Energy, 2021, 170, 188-196.	4.3	91
154	Decoupling and correlating the ion transport by engineering 2D carbon nanosheets for enhanced charge storage. Nano Energy, 2019, 64, 103921.	8.2	90
155	Micro-sized porous carbon spheres with ultra-high rate capability for lithium storage. Nanoscale, 2015, 7, 1791-1795.	2.8	88
156	Operando Revealing Dynamic Reconstruction of NiCo Carbonate Hydroxide for High-Rate Energy Storage. Joule, 2020, 4, 673-687.	11.7	88
157	Understanding of Sodium Storage Mechanism in Hard Carbons: Ongoing Development under Debate. Advanced Energy Materials, 2022, 12, .	10.2	88
158	Chemically grafting graphene oxide to B,N co-doped graphene via ionic liquid and their superior performance for triiodide reduction. Nano Energy, 2016, 25, 184-192.	8.2	87
159	Rational design of high-performance sodium-ion battery anode by molecular engineering of coal tar pitch. Chemical Engineering Journal, 2018, 342, 52-60.	6.6	87
160	Nitrogen-doped porous carbon from coal for high efficiency CO2 electrocatalytic reduction. Carbon, 2019, 151, 46-52.	5.4	87
161	Graphene-based materials for electrochemical CO2 reduction. Journal of CO2 Utilization, 2019, 30, 168-182.	3.3	87
162	Accelerating polysulfide redox conversion on bifunctional electrocatalytic electrode for stable Li-S batteries. Energy Storage Materials, 2019, 20, 98-107.	9.5	87

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