Liming Dai

List of Publications by Year
in descending order

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660 papers	102,695 citations	139 158 h-index	250 301 g-index
731 all docs	731 docs citations	731 times ranked	65306 citing authors

#	Article	IF	Citations
1	Nitrogen-Doped Carbon Nanotube Arrays with High Electrocatalytic Activity for Oxygen Reduction. Science, 2009, 323, 760-764.	6.0	6,535
2	Nitrogen-Doped Graphene as Efficient Metal-Free Electrocatalyst for Oxygen Reduction in Fuel Cells. ACS Nano, 2010, 4, 1321-1326.	7.3	3,658
3	A metal-free bifunctional electrocatalyst for oxygen reduction and oxygen evolution reactions. Nature Nanotechnology, 2015, 10, 444-452.	15.6	2,782
4	Metal-Free Catalysts for Oxygen Reduction Reaction. Chemical Reviews, 2015, 115, 4823-4892.	23.0	2,083
5	Nitrogen-Doped Graphene Quantum Dots with Oxygen-Rich Functional Groups. Journal of the American Chemical Society, 2012, 134, 15-18.	6.6	1,832
6	Plasmaâ€Engraved Co₃O₄ Nanosheets with Oxygen Vacancies and High Surface Area for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2016, 55, 5277-5281.	7.2	1,646
7	Scalable synthesis of hierarchically structured carbon nanotubeâ€“graphene fibres for capacitive energy storage. Nature Nanotechnology, 2014, 9, 555-562.	15.6	1,312
8	Carbon Nanomaterials for Advanced Energy Conversion and Storage. Small, 2012, 8, 1130-1166.	5.2	1,304
9	Defect Chemistry of Nonpreciousâ€Metal Electrocatalysts for Oxygen Reactions. Advanced Materials, 2017, 29, 1606459.	11.1	1,260
10	BCN Graphene as Efficient Metalâ€Free Electrocatalyst for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2012, 51, 4209-4212.	7.2	1,119
11	Identification of catalytic sites for oxygen reduction and oxygen evolution in N-doped graphene materials: Development of highly efficient metal-free bifunctional electrocatalyst. Science Advances, 2016, 2, e1501122.	4.7	1,078
12	Self-Assembled Graphene/Carbon Nanotube Hybrid Films for Supercapacitors. Journal of Physical Chemistry Letters, 2010, 1, 467-470.	2.1	1,073
13	Carbon-based metal-free catalysts. Nature Reviews Materials, 2016, 1, .	23.3	1,042
14	Power generation with laterally packaged piezoelectric fine wires. Nature Nanotechnology, 2009, 4, 34-39.	15.6	859
15	Highly luminescent carbon nanodots by microwave-assisted pyrolysis. Chemical Communications, 2012, 48, 7955.	2.2	830
16	Highâ€Performance Sodium Ion Batteries Based on a 3D Anode from Nitrogenâ€Doped Graphene Foams. Advanced Materials, 2015, 27, 2042-2048.	11.1	812
17	Polyaniline-Grafted Reduced Graphene Oxide for Efficient Electrochemical Supercapacitors. ACS Nano, 2012, 6, 1715-1723.	7.3	807
18	Etched and doped Co₉S₈/graphene hybrid for oxygen electrocatalysis. Energy and Environmental Science, 2016, 9, 1320-1326.	15.6	774

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19	N,Pâ€Codoped Carbon Networks as Efficient Metalâ€free Bifunctional Catalysts for Oxygen Reduction and Hydrogen Evolution Reactions. Angewandte Chemie - International Edition, 2016, 55, 2230-2234.	7.2	748
20	Functionalization of Graphene for Efficient Energy Conversion and Storage. Accounts of Chemical Research, 2013, 46, 31-42.	7.6	739
21	Vertically Aligned BCN Nanotubes as Efficient Metalâ€Free Electrocatalysts for the Oxygen Reduction Reaction: A Synergetic Effect by Coâ€Doping with Boron and Nitrogen. Angewandte Chemie - International Edition, 2011, 50, 11756-11760.	7.2	725
22	Polyelectrolyte Functionalized Carbon Nanotubes as Efficient Metal-free Electrocatalysts for Oxygen Reduction. Journal of the American Chemical Society, 2011, 133, 5182-5185.	6.6	678
23	Carbon Nanotube Arrays with Strong Shear Binding-On and Easy Normal Lifting-Off. Science, 2008, 322, 238-242.	6.0	674
24	Polyelectrolyte-Functionalized Graphene as Metal-Free Electrocatalysts for Oxygen Reduction. ACS Nano, 2011, 5, 6202-6209.	7.3	672
25	Biocompatible Graphene Oxide-Based Glucose Biosensors. Langmuir, 2010, 26, 6158-6160.	1.6	668
26	Novel MOFâ€Derived Co@Nâ€C Bifunctional Catalysts for Highly Efficient Znâ€“Air Batteries and Water Splitting. Advanced Materials, 2018, 30, 1705431.	11.1	667
27	Carbon-based supercapacitors for efficient energy storage. National Science Review, 2017, 4, 453-489.	4.6	651
28	Carbon nanocomposite catalysts for oxygen reduction and evolution reactions: From nitrogen doping to transition-metal addition. Nano Energy, 2016, 29, 83-110.	8.2	650
29	Carbonâ€Based Metalâ€Free ORR Electrocatalysts for Fuel Cells: Past, Present, and Future. Advanced Materials, 2019, 31, e1804799.	11.1	649
30	Are Diamond Nanoparticles Cytotoxic?. Journal of Physical Chemistry B, 2007, 111, 2-7.	1.2	641
31	Graphene for energy conversion and storage in fuel cells and supercapacitors. Nano Energy, 2012, 1, 534-551.	8.2	628
32	Scalable Fabrication of Nanoporous Carbon Fiber Films as Bifunctional Catalytic Electrodes for Flexible Znâ€Air Batteries. Advanced Materials, 2016, 28, 3000-3006.	11.1	626
33	Highly Efficient Metal-Free Growth of Nitrogen-Doped Single-Walled Carbon Nanotubes on Plasma-Etched Substrates for Oxygen Reduction. Journal of the American Chemical Society, 2010, 132, 15127-15129.	6.6	608
34	Multifunctional Carbonâ€Based Metalâ€Free Electrocatalysts for Simultaneous Oxygen Reduction, Oxygen Evolution, and Hydrogen Evolution. Advanced Materials, 2017, 29, 1604942.	11.1	606
35	Carbonâ€Based Metalâ€Free Catalysts for Electrocatalysis beyond the ORR. Angewandte Chemie - International Edition, 2016, 55, 11736-11758.	7.2	598
36	Edge-carboxylated graphene nanosheets via ball milling. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5588-5593.	3.3	595

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37	N-doped carbon nanomaterials are durable catalysts for oxygen reduction reaction in acidic fuel cells. Science Advances, 2015, 1, e1400129.	4.7	583
38	Nitrogenâ€Doped Graphene Foams as Metalâ€Free Counter Electrodes in Highâ€Performance Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2012, 51, 12124-12127.	7.2	581
39	Carbon nanomaterials for high-performance supercapacitors. Materials Today, 2013, 16, 272-280.	8.3	581
40	Large-Scale Production of Edge-Selectively Functionalized Graphene Nanoplatelets via Ball Milling and Their Use as Metal-Free Electrocatalysts for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2013, 135, 1386-1393.	6.6	578
41	Carbon-based electrocatalysts for advanced energy conversion and storage. Science Advances, 2015, 1, e1500564.	4.7	567
42	Electrocatalysis for CO₂conversion: from fundamentals to value-added products. Chemical Society Reviews, 2021, 50, 4993-5061.	18.7	559
43	Edge-rich and dopant-free graphene as a highly efficient metal-free electrocatalyst for the oxygen reduction reaction. Chemical Communications, 2016, 52, 2764-2767.	2.2	547
44	Nitrogen-Doped Colloidal Graphene Quantum Dots and Their Size-Dependent Electrocatalytic Activity for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2012, 134, 18932-18935.	6.6	545
45	Nitrogen Enriched Porous Carbon Spheres: Attractive Materials for Supercapacitor Electrodes and CO₂ Adsorption. Chemistry of Materials, 2014, 26, 2820-2828.	3.2	539
46	Edgeâ€Selectively Sulfurized Graphene Nanoplatelets as Efficient Metalâ€Free Electrocatalysts for Oxygen Reduction Reaction: The Electron Spin Effect. Advanced Materials, 2013, 25, 6138-6145.	11.1	537
47	Metal-Free Carbon Nanomaterials Become More Active than Metal Catalysts and Last Longer. Journal of Physical Chemistry Letters, 2010, 1, 2165-2173.	2.1	529
48	Nitrogen-doped Ti 3 C 2 T x MXene electrodes for high-performance supercapacitors. Nano Energy, 2017, 38, 368-376.	8.2	528
49	Nitrogen, Phosphorus, and Fluorine Triâ€doped Graphene as a Multifunctional Catalyst for Selfâ€Powered Electrochemical Water Splitting. Angewandte Chemie - International Edition, 2016, 55, 13296-13300.	7.2	517
50	Heteroatom-Doped Graphitic Carbon Catalysts for Efficient Electrocatalysis of Oxygen Reduction Reaction. ACS Catalysis, 2015, 5, 7244-7253.	5.5	500
51	Design Principles for Heteroatomâ€Doped Carbon Nanomaterials as Highly Efficient Catalysts for Fuel Cells and Metalâ€“Air Batteries. Advanced Materials, 2015, 27, 6834-6840.	11.1	490
52	Plasmaâ€Engraved Co₃O₄ Nanosheets with Oxygen Vacancies and High Surface Area for the Oxygen Evolution Reaction. Angewandte Chemie, 2016, 128, 5363-5367.	1.6	472
53	Efficient Oxygen Reduction Reaction (ORR) Catalysts Based on Single Iron Atoms Dispersed on a Hierarchically Structured Porous Carbon Framework. Angewandte Chemie - International Edition, 2018, 57, 9038-9043.	7.2	467
54	Soluble P3HT-Grafted Graphene for Efficient Bilayerâ^'Heterojunction Photovoltaic Devices. ACS Nano, 2010, 4, 5633-5640.	7.3	451

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55	The edge- and basal-plane-specific electrochemistry of a single-layer graphene sheet. Scientific Reports, 2013, 3, 2248.	1.6	432
56	Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. Nature Catalysis, 2019, 2, 688-695.	16.1	423
57	Highly Efficient Electrocatalysts for Oxygen Reduction Based on 2D Covalent Organic Polymers Complexed with Nonâ€precious Metals. Angewandte Chemie - International Edition, 2014, 53, 2433-2437.	7.2	417
58	A general approach to cobalt-based homobimetallic phosphide ultrathin nanosheets for highly efficient oxygen evolution in alkaline media. Energy and Environmental Science, 2017, 10, 893-899.	15.6	412
59	Oxygen Reduction Reaction in a Droplet on Graphite: Direct Evidence that the Edge Is More Active than the Basal Plane. Angewandte Chemie - International Edition, 2014, 53, 10804-10808.	7.2	410
60	Transparent and Stretchable High-Performance Supercapacitors Based on Wrinkled Graphene Electrodes. ACS Nano, 2014, 8, 1039-1046.	7.3	406
61	Flexible supercapacitors based on carbon nanomaterials. Journal of Materials Chemistry A, 2014, 2, 10756.	5.2	402
62	Preparation of Tunable 3D Pillared Carbon Nanotubeâ€“Graphene Networks for High-Performance Capacitance. Chemistry of Materials, 2011, 23, 4810-4816.	3.2	367
63	Doping of Carbon Materials for Metalâ€Free Electrocatalysis. Advanced Materials, 2019, 31, e1804672.	11.1	361
64	Effect of carbon nanotubes on the interfacial shear strength of T650 carbon fiber in an epoxy matrix. Composites Science and Technology, 2009, 69, 898-904.	3.8	358
65	DNA Damage Induced by Multiwalled Carbon Nanotubes in Mouse Embryonic Stem Cells. Nano Letters, 2007, 7, 3592-3597.	4.5	351
66	Reduced Graphene Oxide Membranes for Ultrafast Organic Solvent Nanofiltration. Advanced Materials, 2016, 28, 8669-8674.	11.1	349
67	High performance electrochemical capacitors from aligned carbon nanotube electrodes and ionic liquid electrolytes. Journal of Power Sources, 2009, 189, 1270-1277.	4.0	336
68	Sulfurâ€Doped Graphene Derived from Cycled Lithiumâ€“Sulfur Batteries as a Metalâ€Free Electrocatalyst for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2015, 54, 1888-1892.	7.2	328
69	Controlled Synthesis and Modification of Carbon Nanotubes and C60: Carbon Nanostructures for Advanced Polymeric Composite Materials. Advanced Materials, 2001, 13, 899-913.	11.1	323
70	Differential biocompatibility of carbon nanotubes and nanodiamonds. Diamond and Related Materials, 2007, 16, 2118-2123.	1.8	312
71	Textile electrodes woven by carbon nanotubeâ€“graphene hybrid fibers for flexible electrochemical capacitors. Nanoscale, 2013, 5, 3428.	2.8	307
72	Conducting Polyaniline Nanotubes by Template-Free Polymerization. Macromolecules, 2001, 34, 675-677.	2.2	304

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73	Newlyâ€Designed Complex Ternary Pt/PdCu Nanoboxes Anchored on Threeâ€Dimensional Graphene Framework for Highly Efficient Ethanol Oxidation. Advanced Materials, 2012, 24, 5493-5498.	11.1	301
74	Facile, scalable synthesis of edge-halogenated graphene nanoplatelets as efficient metal-free eletrocatalysts for oxygen reduction reaction. Scientific Reports, 2013, 3, 1810.	1.6	300
75	N-doped porous carbon nanosheets as pH-universal ORR electrocatalyst in various fuel cell devices. Nano Energy, 2018, 49, 393-402.	8.2	300
76	Magnetic Liquid Marbles: A â€œPreciseâ€•Miniature Reactor. Advanced Materials, 2010, 22, 4814-4818.	11.1	298
77	Vertically Aligned Carbon Nanotube Arrays Co-doped with Phosphorus and Nitrogen as Efficient Metal-Free Electrocatalysts for Oxygen Reduction. Journal of Physical Chemistry Letters, 2012, 3, 2863-2870.	2.1	294
78	3-D Carbon Nanotube Structures Used as High Performance Catalyst for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2010, 132, 15839-15841.	6.6	293
79	Nitrogenâ€Doped Holey Graphitic Carbon from 2D Covalent Organic Polymers for Oxygen Reduction. Advanced Materials, 2014, 26, 3315-3320.	11.1	292
80	Substrate-Enhanced Electroless Deposition of Metal Nanoparticles on Carbon Nanotubes. Journal of the American Chemical Society, 2005, 127, 10806-10807.	6.6	291
81	Multifunctional Chemical Vapor Sensors of Aligned Carbon Nanotube and Polymer Composites. Journal of the American Chemical Society, 2006, 128, 1412-1413.	6.6	285
82	Patterned Growth and Contact Transfer of Well-Aligned Carbon Nanotube Films. Journal of Physical Chemistry B, 1999, 103, 4223-4227.	1.2	284
83	Three-dimensional B,N-doped graphene foam as a metal-free catalyst for oxygen reduction reaction. Physical Chemistry Chemical Physics, 2013, 15, 12220.	1.3	284
84	2D Frameworks of C₂N and C₃N as New Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1702007.	11.1	282
85	Polyaniline Nanotubes Doped with Sulfonated Carbon Nanotubes Made Via a Self-Assembly Process. Advanced Materials, 2003, 15, 136-139.	11.1	279
86	Effect of Microstructure of Nitrogen-Doped Graphene on Oxygen Reduction Activity in Fuel Cells. Langmuir, 2012, 28, 7542-7550.	1.6	279
87	Hole and Electron Extraction Layers Based on Graphene Oxide Derivatives for Highâ€Performance Bulk Heterojunction Solar Cells. Advanced Materials, 2012, 24, 2228-2233.	11.1	279
88	Biosensors Based on Aligned Carbon Nanotubes Coated with Inherently Conducting Polymers. Electroanalysis, 2003, 15, 1089-1094.	1.5	278
89	Carbonâ€Based Metalâ€Free Catalysts for Key Reactions Involved in Energy Conversion and Storage. Advanced Materials, 2019, 31, e1801526.	11.1	273
90	Facile Synthesis of Black Phosphorus: an Efficient Electrocatalyst for the Oxygen Evolving Reaction. Angewandte Chemie - International Edition, 2016, 55, 13849-13853.	7.2	269

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91	One-step coating of fluoro-containing silicananoparticles for universal generation of surface superhydrophobicity. Chemical Communications, 2008, , 877-879.	2.2	266
92	Hierarchical composites of carbon nanotubes on carbon fiber: Influence of growth condition on fiber tensile properties. Composites Science and Technology, 2009, 69, 594-601.	3.8	266
93	Plasma Activation of Carbon Nanotubes for Chemical Modification. Journal of Physical Chemistry B, 2001, 105, 618-622.	1.2	265
94	Graphene Quantum Dots Supported by Graphene Nanoribbons with Ultrahigh Electrocatalytic Performance for Oxygen Reduction. Journal of the American Chemical Society, 2015, 137, 7588-7591.	6.6	262
95	Efficiently photo-charging lithium-ion battery by perovskite solar cell. Nature Communications, 2015, 6, 8103.	5.8	261
96	Highly Rechargeable Lithiumâ€CO₂ Batteries with a Boronâ€and Nitrogenâ€Codoped Holeyâ€Graphene Cathode. Angewandte Chemie - International Edition, 2017, 56, 6970-6974.	7.2	260
97	Porous Coreâ€“Shell Fe₃C Embedded N-doped Carbon Nanofibers as an Effective Electrocatalysts for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 4118-4125.	4.0	256
98	Solidâ€State Rechargeable Zn//NiCo and Znâ€“Air Batteries with Ultralong Lifetime and High Capacity: The Role of a Sodium Polyacrylate Hydrogel Electrolyte. Advanced Energy Materials, 2018, 8, 1802288.	10.2	253
99	High-performance transparent and stretchable all-solid supercapacitors based on highly aligned carbon nanotube sheets. Scientific Reports, 2014, 4, 3612.	1.6	252
100	Two-birds-one-stone: multifunctional supercapacitors beyond traditional energy storage. Energy and Environmental Science, 2021, 14, 1854-1896.	15.6	252
101	Structure and growth of aligned carbon nanotube films by pyrolysis. Chemical Physics Letters, 2000, 316, 349-355.	1.2	248
102	Ultrathin Black Phosphorus-on-Nitrogen Doped Graphene for Efficient Overall Water Splitting: Dual Modulation Roles of Directional Interfacial Charge Transfer. Journal of the American Chemical Society, 2019, 141, 4972-4979.	6.6	247
103	Edge-doping modulation of N, P-codoped porous carbon spheres for high-performance rechargeable Zn-air batteries. Nano Energy, 2019, 60, 536-544.	8.2	247
104	An Asymmetrically Surface-Modified Graphene Film Electrochemical Actuator. ACS Nano, 2010, 4, 6050-6054.	7.3	242
105	Vertically Aligned N-Doped Coral-like Carbon Fiber Arrays as Efficient Air Electrodes for High-Performance Nonaqueous Liâ€O₂ Batteries. ACS Nano, 2014, 8, 3015-3022.	7.3	242
106	Aligned Coaxial Nanowires of Carbon Nanotubes Sheathed with Conducting Polymers. Angewandte Chemie - International Edition, 2000, 39, 3664-3667.	7.2	235
107	Functionalization of Graphene Oxide with Polyhedral Oligomeric Silsesquioxane (POSS) for Multifunctional Applications. Journal of Physical Chemistry Letters, 2012, 3, 1607-1612.	2.1	234
108	Harnessing the interplay of Feâ€“Ni atom pairs embedded in nitrogen-doped carbon for bifunctional oxygen electrocatalysis. Nano Energy, 2020, 71, 104597.	8.2	231

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109	N,Pâ€Codoped Carbon Networks as Efficient Metalâ€free Bifunctional Catalysts for Oxygen Reduction and Hydrogen Evolution Reactions. Angewandte Chemie, 2016, 128, 2270-2274.	1.6	224
110	Recent Advances in Carbonâ€Based Metalâ€Free Electrocatalysts. Advanced Materials, 2019, 31, e1806403.	11.1	222
111	Cathode materials for next generation lithium ion batteries. Nano Energy, 2013, 2, 439-442.	8.2	221
112	C₆₀-Adsorbed Single-Walled Carbon Nanotubes as Metal-Free, pH-Universal, and Multifunctional Catalysts for Oxygen Reduction, Oxygen Evolution, and Hydrogen Evolution. Journal of the American Chemical Society, 2019, 141, 11658-11666.	6.6	220
113	Can silver nanoparticles be useful as potential biological labels?. Nanotechnology, 2008, 19, 235104.	1.3	218
114	Novel Benzo[1,2â€b:4,5â€bâ€²]dithiopheneâ€“Benzothiadiazole Derivatives with Variable Side Chains for Highâ€Performance Solar Cells. Advanced Materials, 2011, 23, 4554-4558.	11.1	217
115	Fullerene-Grafted Graphene for Efficient Bulk Heterojunction Polymer Photovoltaic Devices. Journal of Physical Chemistry Letters, 2011, 2, 1113-1118.	2.1	216
116	Sulfurâ€“Graphene Nanostructured Cathodes via Ball-Milling for High-Performance Lithiumâ€“Sulfur Batteries. ACS Nano, 2014, 8, 10920-10930.	7.3	213
117	Electrospun polymer nanofiber sensors. Synthetic Metals, 2005, 154, 37-40.	2.1	211
118	Layerâ€byâ€Layer Growth of $CH_3NH_3PbI_{3-x}Cl_x$ for Highly Efficient Planar Heterojunction Perovskite Solar Cells. Advanced Materials, 2015, 27, 1053-1059.	11.1	211
119	Chemistry of Carbon Nanotubes. Australian Journal of Chemistry, 2003, 56, 635.	0.5	209
120	Highly Efficient Binding of DNA on the Sidewalls and Tips of Carbon Nanotubes Using Photochemistry. Nano Letters, 2004, 4, 89-93.	4.5	209
121	Heteroatom-doped carbon catalysts for zincâ€“air batteries: progress, mechanism, and opportunities. Energy and Environmental Science, 2020, 13, 4536-4563.	15.6	209
122	Functional graphene nanomesh foam. Energy and Environmental Science, 2014, 7, 1913.	15.6	206
123	Preferential Syntheses of Semiconducting Vertically Aligned Single-Walled Carbon Nanotubes for Direct Use in FETs. Nano Letters, 2008, 8, 2682-2687.	4.5	205
124	Vertically Aligned BCN Nanotubes with High Capacitance. ACS Nano, 2012, 6, 5259-5265.	7.3	204
125	Direct nitrogen fixation at the edges of graphene nanoplatelets as efficient electrocatalysts for energy conversion. Scientific Reports, 2013, 3, 2260.	1.6	204
126	Shape/Size-Controlled Syntheses of Metal Nanoparticles for Site-Selective Modification of Carbon Nanotubes. Journal of the American Chemical Society, 2006, 128, 5523-5532.	6.6	203

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127	DNA-Directed Self-Assembling of Carbon Nanotubes. Journal of the American Chemical Society, 2005, 127, 14-15.	6.6	202
128	Geckoâ€Footâ€Mimetic Aligned Singleâ€Walled Carbon Nanotube Dry Adhesives with Unique Electrical and Thermal Properties. Advanced Materials, 2007, 19, 3844-3849.	11.1	202
129	Zigzag carbon as efficient and stable oxygen reduction electrocatalyst for proton exchange membrane fuel cells. Nature Communications, 2018, 9, 3819.	5.8	202
130	Carbon nanomaterials as metal-free catalysts in next generation fuel cells. Nano Energy, 2012, 1, 514-517.	8.2	198
131	3D Heteroatomâ€Doped Carbon Nanomaterials as Multifunctional Metalâ€Free Catalysts for Integrated Energy Devices. Advanced Materials, 2019, 31, e1805598.	11.1	194
132	Well-defined two dimensional covalent organic polymers: rational design, controlled syntheses, and potential applications. Polymer Chemistry, 2015, 6, 1896-1911.	1.9	189
133	Carbonâ€Based Metalâ€Free Catalysts for Energy Storage and Environmental Remediation. Advanced Materials, 2019, 31, e1806128.	11.1	188
134	Nanodiamonds for nanomedicine. Nanomedicine, 2009, 4, 207-218.	1.7	187
135	Self-assembly of gold nanoparticles to carbon nanotubes using a thiol-terminated pyrene as interlinker. Chemical Physics Letters, 2003, 367, 747-752.	1.2	186
136	Aligned Nanotubes. ChemPhysChem, 2003, 4, 1150-1169.	1.0	180
137	Graphene oxide derivatives as hole- and electron-extraction layers for high-performance polymer solar cells. Energy and Environmental Science, 2014, 7, 1297-1306.	15.6	180
138	Sensors and sensor arrays based on conjugated polymers and carbon nanotubes. Pure and Applied Chemistry, 2002, 74, 1753-1772.	0.9	178
139	Directional water-transfer through fabrics induced by asymmetric wettability. Journal of Materials Chemistry, 2010, 20, 7938.	6.7	178
140	Oxidizing metal ions with graphene oxide: the in situ formation of magnetic nanoparticles on self-reduced graphene sheets for multifunctional applications. Chemical Communications, 2011, 47, 11689.	2.2	177
141	Carbon Nanotubols from Mechanochemical Reaction. Nano Letters, 2003, 3, 29-32.	4.5	176
142	PVK-Modified Single-Walled Carbon Nanotubes with Effective Photoinduced Electron Transfer. Macromolecules, 2003, 36, 6286-6288.	2.2	176
143	Rationally designed graphene-nanotube 3D architectures with a seamless nodal junction for efficient energy conversion and storage. Science Advances, 2015, 1, e1400198.	4.7	176
144	A rechargeable iodine-carbon battery that exploits ion intercalation and iodine redox chemistry. Nature Communications, 2017, 8, 527.	5.8	176

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145	Carbon-Defect-Driven Electroless Deposition of Pt Atomic Clusters for Highly Efficient Hydrogen Evolution. Journal of the American Chemical Society, 2020, 142, 5594-5601.	6.6	175
146	Edgeâ€Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dyeâ€Sensitized Solar Cells and Lithium Ion Batteries. Advanced Functional Materials, 2015, 25, 1170-1179.	7.8	174
147	Carbon-based metal-free electrocatalysts: from oxygen reduction to multifunctional electrocatalysis. Chemical Society Reviews, 2021, 50, 11785-11843.	18.7	174
148	Nanomechanics of Individual Carbon Nanotubes from Pyrolytically Grown Arrays. Physical Review Letters, 2000, 85, 622-625.	2.9	173
149	Highâ€Performance, Stretchable, Wireâ€Shaped Supercapacitors. Angewandte Chemie - International Edition, 2015, 54, 618-622.	7.2	173
150	Formation of Large-Area Nitrogen-Doped Graphene Film Prepared from Simple Solution Casting of Edge-Selectively Functionalized Graphite and Its Electrocatalytic Activity. Chemistry of Materials, 2011, 23, 3987-3992.	3.2	171
151	Nanocomposite Electrodes for High-Performance Supercapacitors. Journal of Physical Chemistry Letters, 2011, 2, 655-660.	2.1	171
152	Highly crystalline sulfur-doped carbon nitride as photocatalyst for efficient visible-light hydrogen generation. Applied Catalysis B: Environmental, 2018, 238, 592-598.	10.8	171
153	Graphene Phosphonic Acid as an Efficient Flame Retardant. ACS Nano, 2014, 8, 2820-2825.	7.3	169
154	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
155	Novel Quinoxaline-Based Organic Sensitizers for Dye-Sensitized Solar Cells. Organic Letters, 2011, 13, 3880-3883.	2.4	166
156	Multifunctional electrocatalysts derived from conducting polymer and metal organic framework complexes. Nano Energy, 2018, 45, 127-135.	8.2	166
157	Conducting Polymers for Flexible Supercapacitors. Macromolecular Chemistry and Physics, 2019, 220, 1800355.	1.1	164
158	Determination of end-adsorbed polymer density profiles by neutron reflectometry. Macromolecules, 1992, 25, 434-439.	2.2	163
159	Determination of nitrite with the electrocatalytic property to the oxidation of nitrite on thionine modified aligned carbon nanotubes. Electrochemistry Communications, 2007, 9, 65-70.	2.3	163
160	Electrochemistry at Carbon Nanotube Electrodes: Is the Nanotube Tip More Active Than the Sidewall?. Angewandte Chemie - International Edition, 2008, 47, 5446-5450.	7.2	161
161	Aligned carbon nanotubeâ€“DNA electrochemical sensors. Chemical Communications, 2004, , 348-349.	2.2	160
162	Asymmetric End-Functionalization of Multi-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2005, 127, 4122-4123.	6.6	160

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163	Edgeâ€Selectively Halogenated Graphene Nanoplatelets (XGnPs, X = Cl, Br, or I) Prepared by Ballâ€Milling and Used as Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2014, 26, 7317-7323.	11.1	160
164	Boosting Electroreduction Kinetics of Nitrogen to Ammonia via Tuning Electron Distribution of Singleâ€Atomic Iron Sites. Angewandte Chemie - International Edition, 2021, 60, 9078-9085.	7.2	157
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