

Jh Chen

List of Publications by Year in descending order

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278
papers

28,212
citations

3333

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all docs

285
docs citations

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times ranked

32638
citing authors

#	ARTICLE	IF	CITATIONS
1	Crumpled Nitrogen-Doped Graphene Nanosheets with Ultrahigh Pore Volume for High-Performance Supercapacitor. <i>Advanced Materials</i> , 2012, 24, 5610-5616.	11.1	880
2	Constructing 2D Porous Graphitic C ₃ N ₄ Nanosheets/Nitrogen-Doped Graphene/Layered MoS ₂ Ternary Nanojunction with Enhanced Photoelectrochemical Activity. <i>Advanced Materials</i> , 2013, 25, 6291-6297.	11.1	772
3	An Advanced Nitrogen-Doped Graphene/Cobalt-Embedded Porous Carbon Polyhedron Hybrid for Efficient Catalysis of Oxygen Reduction and Water Splitting. <i>Advanced Functional Materials</i> , 2015, 25, 872-882.	7.8	683
4	Reduced graphene oxide for room-temperature gas sensors. <i>Nanotechnology</i> , 2009, 20, 445502.	1.3	652
5	Enhanced Adsorptive Removal of Methyl Orange and Methylene Blue from Aqueous Solution by Alkali-Activated Multiwalled Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5749-5760.	4.0	645
6	High-performance bi-functional electrocatalysts of 3D crumpled graphene-cobalt oxide nanohybrids for oxygen reduction and evolution reactions. <i>Energy and Environmental Science</i> , 2014, 7, 609-616.	15.6	605
7	Ultrahigh sensitivity and layer-dependent sensing performance of phosphorene-based gas sensors. <i>Nature Communications</i> , 2015, 6, 8632.	5.8	598
8	Nitrogen-Enriched Core-Shell Structured Fe/Fe ₃ C Nanorods as Advanced Electrocatalysts for Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2012, 24, 1399-1404.	11.1	517
9	Metal-Organic Framework-Derived Nitrogen-Doped Core-Shell Structured Porous Fe/Fe ₃ C@C Nanoboxes Supported on Graphene Sheets for Efficient Oxygen Reduction Reactions. <i>Advanced Energy Materials</i> , 2014, 4, 1400337.	10.2	512
10	Metal-Organic-Framework-Derived Fe-N/C Electrocatalyst with Five-Coordinated Fe-N _x Sites for Advanced Oxygen Reduction in Acid Media. <i>ACS Catalysis</i> , 2017, 7, 1655-1663.	5.5	483
11	Graphene oxide and its reduction: modeling and experimental progress. <i>RSC Advances</i> , 2012, 2, 2643.	1.7	463
12	Specific Protein Detection Using Thermally Reduced Graphene Oxide Sheet Decorated with Gold Nanoparticle-Antibody Conjugates. <i>Advanced Materials</i> , 2010, 22, 3521-3526.	11.1	444
13	Green preparation of reduced graphene oxide for sensing and energy storage applications. <i>Scientific Reports</i> , 2014, 4, 4684.	1.6	433
14	Multilayered Si Nanoparticle/Reduced Graphene Oxide Hybrid as a High-Performance Lithium-Ion Battery Anode. <i>Advanced Materials</i> , 2014, 26, 758-764.	11.1	387
15	Plasma-enhanced chemical vapor deposition synthesis of vertically oriented graphene nanosheets. <i>Nanoscale</i> , 2013, 5, 5180.	2.8	357
16	Toward Practical Gas Sensing with Highly Reduced Graphene Oxide: A New Signal Processing Method To Circumvent Run-to-Run and Device-to-Device Variations. <i>ACS Nano</i> , 2011, 5, 1154-1164.	7.3	353
17	Gas detection using low-temperature reduced graphene oxide sheets. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	346
18	Stabilizing MoS ₂ Nanosheets through SnO ₂ Nanocrystal Decoration for High-Performance Gas Sensing in Air. <i>Small</i> , 2015, 11, 2305-2313.	5.2	333

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19	Oxygen reduction reaction catalysts used in microbial fuel cells for energy-efficient wastewater treatment: a review. <i>Materials Horizons</i> , 2016, 3, 382-401.	6.4	322
20	Two-dimensional nanomaterial-based field-effect transistors for chemical and biological sensing. <i>Chemical Society Reviews</i> , 2017, 46, 6872-6904.	18.7	316
21	Room-Temperature Gas Sensing Based on Electron Transfer between Discrete Tin Oxide Nanocrystals and Multiwalled Carbon Nanotubes. <i>Advanced Materials</i> , 2009, 21, 2487-2491.	11.1	281
22	In Situ Confinement Pyrolysis Transformation of ZIF-8 to Nitrogen-Enriched Mesoporous Carbon Frameworks for Oxygen Reduction. <i>Advanced Functional Materials</i> , 2016, 26, 8334-8344.	7.8	281
23	Perpendicularly Oriented MoSe ₂ /Graphene Nanosheets as Advanced Electrocatalysts for Hydrogen Evolution. <i>Small</i> , 2015, 11, 414-419.	5.2	276
24	Tuning gas-sensing properties of reduced graphene oxide using tin oxide nanocrystals. <i>Journal of Materials Chemistry</i> , 2012, 22, 11009.	6.7	274
25	Vertically Oriented Graphene Bridging Active-Layer/Current-Collector Interface for Ultrahigh Rate Supercapacitors. <i>Advanced Materials</i> , 2013, 25, 5799-5806.	11.1	270
26	Emerging energy and environmental applications of vertically-oriented graphenes. <i>Chemical Society Reviews</i> , 2015, 44, 2108-2121.	18.7	269
27	Enhancing Solar Cell Efficiencies through 1-D Nanostructures. <i>Nanoscale Research Letters</i> , 2009, 4, .	3.1	259
28	Strongly Coupled Ternary Hybrid Aerogels of N-deficient Porous Graphitic-C ₃ N ₄ Nanosheets/N-Doped Graphene/NiFe-Layered Double Hydroxide for Solar-Driven Photoelectrochemical Water Oxidation. <i>Nano Letters</i> , 2016, 16, 2268-2277.	4.5	256
29	Three-dimensional graphene-based composites for energy applications. <i>Nanoscale</i> , 2015, 7, 6924-6943.	2.8	241
30	Silicon nanotube anode for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2013, 29, 67-70.	2.3	236
31	N-doped graphene/porous g-C ₃ N ₄ nanosheets supported layered-MoS ₂ hybrid as robust anode materials for lithium-ion batteries. <i>Nano Energy</i> , 2014, 8, 157-164.	8.2	234
32	Alginate/graphene double-network nanocomposite hydrogel beads with low-swelling, enhanced mechanical properties, and enhanced adsorption capacity. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10885-10892.	5.2	225
33	Hg(II) Ion Detection Using Thermally Reduced Graphene Oxide Decorated with Functionalized Gold Nanoparticles. <i>Analytical Chemistry</i> , 2012, 84, 4057-4062.	3.2	224
34	A room-temperature liquid metal-based self-healing anode for lithium-ion batteries with an ultra-long cycle life. <i>Energy and Environmental Science</i> , 2017, 10, 1854-1861.	15.6	219
35	Co ₃ O ₄ nanoparticles embedded in nitrogen-doped porous carbon dodecahedrons with enhanced electrochemical properties for lithium storage and water splitting. <i>Nano Energy</i> , 2015, 12, 1-8.	8.2	210
36	Nickel oxide hollow microsphere for non-enzyme glucose detection. <i>Biosensors and Bioelectronics</i> , 2014, 54, 251-257.	5.3	208

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37	Field-effect transistor biosensors with two-dimensional black phosphorus nanosheets. <i>Biosensors and Bioelectronics</i> , 2017, 89, 505-510.	5.3	206
38	Nanocarbon-based gas sensors: progress and challenges. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5573.	5.2	202
39	A General Approach to One-Pot Fabrication of Crumpled Graphene-Based Nanohybrids for Energy Applications. <i>ACS Nano</i> , 2012, 6, 7505-7513.	7.3	201
40	A 3D hybrid of layered MoS ₂ /nitrogen-doped graphene nanosheet aerogels: an effective catalyst for hydrogen evolution in microbial electrolysis cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13795-13800.	5.2	198
41	Controllable Synthesis of Hollow Si Anode for Long-Cycle Life Lithium-Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 4326-4332.	11.1	193
42	Carbon Nanotube with Chemically Bonded Graphene Leaves for Electronic and Optoelectronic Applications. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1556-1562.	2.1	190
43	Amorphous MoS _x Cl _y electrocatalyst supported by vertical graphene for efficient electrochemical and photoelectrochemical hydrogen generation. <i>Energy and Environmental Science</i> , 2015, 8, 862-868.	15.6	183
44	Model of the Negative DC Corona Plasma: Comparison to the Positive DC Corona Plasma. <i>Plasma Chemistry and Plasma Processing</i> , 2003, 23, 83-102.	1.1	179
45	Strongly Coupled 3D Hybrids of N-doped Porous Carbon Nanosheet/CoNi Alloy-Encapsulated Carbon Nanotubes for Enhanced Electrocatalysis. <i>Small</i> , 2015, 11, 5940-5948.	5.2	176
46	Direct Growth of Vertically-oriented Graphene for Field-Effect Transistor Biosensor. <i>Scientific Reports</i> , 2013, 3, 1696.	1.6	173
47	Metal Nitride/Graphene Nanohybrids: General Synthesis and Multifunctional Titanium Nitride/Graphene Electrocatalyst. <i>Advanced Materials</i> , 2011, 23, 5445-5450.	11.1	171
48	MOF-Based Metal-Doping-Induced Synthesis of Hierarchical Porous Cu ₂ N/C Oxygen Reduction Electrocatalysts for Zn-Air Batteries. <i>Small</i> , 2017, 13, 1700740.	5.2	170
49	Facile One-Pot, One-Step Synthesis of a Carbon Nanoarchitecture for an Advanced Multifunctional Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6496-6500.	7.2	169
50	Fast and Selective Room-Temperature Ammonia Sensors Using Silver Nanocrystal-Functionalized Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4898-4904.	4.0	164
51	Graphene-based sensors for detection of heavy metals in water: a review. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3957-3975.	1.9	163
52	One-step fabrication and capacitive behavior of electrochemical double layer capacitor electrodes using vertically-oriented graphene directly grown on metal. <i>Carbon</i> , 2012, 50, 4379-4387.	5.4	162
53	Patterning Vertically Oriented Graphene Sheets for Nanodevice Applications. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 537-542.	2.1	159
54	Semiconducting graphene: converting graphene from semimetal to semiconductor. <i>Nanoscale</i> , 2013, 5, 1353.	2.8	158

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55	A Hierarchical Tin/Carbon Composite as an Anode for Lithium-Ion Batteries with a Long Cycle Life. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1490-1493.	7.2	158
56	Transport, Analyte Detection, and Opto-Electronic Response of p-Type CuO Nanowires. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2440-2447.	1.5	157
57	Metal Oxide/Carbide/Carbon Nanocomposites: In Situ Synthesis, Characterization, Calculation, and their Application as an Efficient Counter Electrode Catalyst for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 1407-1412.	10.2	157
58	Synthesizing Nitrogen-Doped Activated Carbon and Probing its Active Sites for Oxygen Reduction Reaction in Microbial Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7464-7470.	4.0	157
59	Enhanced photovoltaic performance of perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ solar cells with freestanding TiO_2 nanotube array films. <i>Chemical Communications</i> , 2014, 50, 6368-6371.	2.2	156
60	Ozone Production in the Positive DC Corona Discharge: Model and Comparison to Experiments. <i>Plasma Chemistry and Plasma Processing</i> , 2002, 22, 495-522.	1.1	155
61	A three-dimensionally interconnected carbon nanotube/layered MoS_2 nanohybrid network for lithium ion battery anode with superior rate capacity and long-cycle-life. <i>Nano Energy</i> , 2015, 16, 10-18.	8.2	155
62	Controllable Synthesis and Tunable Photocatalytic Properties of Ti^{3+} -doped TiO_2 . <i>Scientific Reports</i> , 2015, 5, 10714.	1.6	152
63	Surfactant assisted Ce/Fe mixed oxide decorated multiwalled carbon nanotubes and their arsenic adsorption performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11355.	5.2	151
64	Confined phosphorus in carbon nanotube-backboned mesoporous carbon as superior anode material for sodium/potassium-ion batteries. <i>Nano Energy</i> , 2018, 52, 1-10.	8.2	148
65	Facile, noncovalent decoration of graphene oxide sheets with nanocrystals. <i>Nano Research</i> , 2009, 2, 192-200.	5.8	145
66	Rapid detection of single <i>E. coli</i> bacteria using a graphene-based field-effect transistor device. <i>Biosensors and Bioelectronics</i> , 2018, 110, 16-22.	5.3	144
67	TiO_2 nanoparticles-decorated carbon nanotubes for significantly improved bioelectricity generation in microbial fuel cells. <i>Journal of Power Sources</i> , 2013, 234, 100-106.	4.0	136
68	Indium-doped SnO_2 nanoparticle-graphene nanohybrids: simple one-pot synthesis and their selective detection of NO_2 . <i>Journal of Materials Chemistry A</i> , 2013, 1, 4462.	5.2	129
69	Nitrogen-doped graphene/ CoNi alloy encased within bamboo-like carbon nanotube hybrids as cathode catalysts in microbial fuel cells. <i>Journal of Power Sources</i> , 2016, 307, 561-568.	4.0	128
70	Decorating anode with bamboo-like nitrogen-doped carbon nanotubes for microbial fuel cells. <i>Electrochemistry Communications</i> , 2012, 14, 71-74.	2.3	127
71	Modulating Gas Sensing Properties of CuO Nanowires through Creation of Discrete Nanosized p-n Junctions on Their Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4192-4199.	4.0	125
72	Controllable synthesis of silver nanoparticle-decorated reduced graphene oxide hybrids for ammonia detection. <i>Analyst</i> , 2013, 138, 2877.	1.7	125

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73	Growth of carbon nanowalls at atmospheric pressure for one-step gas sensor fabrication. <i>Nanoscale Research Letters</i> , 2011, 6, 202.	3.1	123
74	Magnetic carbon nanotubes synthesis by Fenton's reagent method and their potential application for removal of azo dye from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2012, 378, 175-183.	5.0	122
75	One-pot, large-scale synthesis of magnetic activated carbon nanotubes and their applications for arsenic removal. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4662.	5.2	122
76	Title is missing!. <i>Plasma Chemistry and Plasma Processing</i> , 2002, 22, 199-224.	1.1	121
77	Understanding growth of carbon nanowalls at atmospheric pressure using normal glow discharge plasma-enhanced chemical vapor deposition. <i>Carbon</i> , 2011, 49, 1849-1858.	5.4	120
78	Enhanced Performance of Supported HfO_2 Counter Electrodes for Redox Couples Used in Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2014, 7, 442-450.	3.6	117
79	Enhanced adsorption removal of antibiotics from aqueous solutions by modified alginate/graphene double network porous hydrogel. <i>Journal of Colloid and Interface Science</i> , 2017, 507, 250-259.	5.0	115
80	Strategies for Improving the Performance of Sensors Based on Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2018, 30, e1705642.	11.1	114
81	Field-Effect Transistor Biosensor for Rapid Detection of Ebola Antigen. <i>Scientific Reports</i> , 2017, 7, 10974.	1.6	112
82	Real-Time, Selective Detection of Pb^{2+} in Water Using a Reduced Graphene Oxide/Gold Nanoparticle Field-Effect Transistor Device. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19235-19241.	4.0	111
83	Nanomaterial-enabled Rapid Detection of Water Contaminants. <i>Small</i> , 2015, 11, 5336-5359.	5.2	108
84	Batch and column adsorption of methylene blue by graphene/alginate nanocomposite: Comparison of single-network and double-network hydrogels. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 147-156.	3.3	106
85	Ultrasensitive Mercury Ion Detection Using DNA-Functionalized Molybdenum Disulfide Nanosheet/Gold Nanoparticle Hybrid Field-Effect Transistor Device. <i>ACS Sensors</i> , 2016, 1, 295-302.	4.0	103
86	A new reducing agent to prepare single-layer, high-quality reduced graphene oxide for device applications. <i>Nanoscale</i> , 2011, 3, 2849.	2.8	99
87	3D dual-confined sulfur encapsulated in porous carbon nanosheets and wrapped with graphene aerogels as a cathode for advanced lithium sulfur batteries. <i>Nanoscale</i> , 2016, 8, 8228-8235.	2.8	99
88	Binding Sn-based nanoparticles on graphene as the anode of rechargeable lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 3300.	6.7	97
89	Rational design of mesoporous NiFe-alloy-based hybrids for oxygen conversion electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7986-7993.	5.2	95
90	Hierarchical Nanohybrids with Porous CNT-Networks Decorated Crumpled Graphene Balls for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9881-9889.	4.0	94

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91	Hydrothermal synthesis of vanadium nitride and modulation of its catalytic performance for oxygen reduction reaction. <i>Nanoscale</i> , 2014, 6, 9608.	2.8	93
92	Self-healing liquid metal nanoparticles encapsulated in hollow carbon fibers as a free-standing anode for lithium-ion batteries. <i>Nano Energy</i> , 2019, 62, 883-889.	8.2	93
93	NiO-Microflower Formed by Nanowire-weaving Nanosheets with Interconnected Ni-network Decoration as Supercapacitor Electrode. <i>Scientific Reports</i> , 2015, 5, 11919.	1.6	92
94	Ultrasensitive Quantum Dot Fluorescence quenching Assay for Selective Detection of Mercury Ions in Drinking Water. <i>Scientific Reports</i> , 2014, 4, 5624.	1.6	91
95	Ozone Production in the Negative DC Corona: The Dependence of Discharge Polarity. <i>Plasma Chemistry and Plasma Processing</i> , 2003, 23, 501-518.	1.1	90
96	Selective removal of lead ions through capacitive deionization: Role of ion-exchange membrane. <i>Chemical Engineering Journal</i> , 2019, 361, 1535-1542.	6.6	89
97	Porous Carbon Nanosheets Codoped with Nitrogen and Sulfur for Oxygen Reduction Reaction in Microbial Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18672-18678.	4.0	86
98	Ultrafast room temperature NH ₃ sensing with positively gated reduced graphene oxide field-effect transistors. <i>Chemical Communications</i> , 2011, 47, 7761.	2.2	85
99	Hierarchical vertically oriented graphene as a catalytic counter electrode in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 188-193.	5.2	85
100	Highly sensitive protein sensor based on thermally-reduced graphene oxide field-effect transistor. <i>Nano Research</i> , 2011, 4, 921-930.	5.8	84
101	Highly porous N-doped graphene nanosheets for rapid removal of heavy metals from water by capacitive deionization. <i>Chemical Communications</i> , 2017, 53, 881-884.	2.2	84
102	HF-free synthesis of Si/C yolk/shell anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2593-2599.	5.2	84
103	Ultrasensitive antibiotic sensing using aptamer/graphene-based field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2019, 126, 664-671.	5.3	83
104	Carbon/iron-based nanorod catalysts for hydrogen production in microbial electrolysis cells. <i>Nano Energy</i> , 2012, 1, 751-756.	8.2	82
105	Exploring Adsorption and Reactivity of NH ₃ on Reduced Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10698-10707.	1.5	82
106	Ultrasonic-assisted self-assembly of monolayer graphene oxide for rapid detection of Escherichia coli bacteria. <i>Nanoscale</i> , 2013, 5, 3620.	2.8	82
107	Graphene Coupled with Nanocrystals: Opportunities and Challenges for Energy and Sensing Applications. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2441-2454.	2.1	80
108	Ultrasensitive Chemical Sensing through Facile Tuning Defects and Functional Groups in Reduced Graphene Oxide. <i>Analytical Chemistry</i> , 2014, 86, 7516-7522.	3.2	80

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109	One-pot, solid-phase synthesis of magnetic multiwalled carbon nanotube/iron oxide composites and their application in arsenic removal. <i>Journal of Colloid and Interface Science</i> , 2014, 434, 9-17.	5.0	80
110	Evidence of Nanocrystalline Semiconducting Graphene Monoxide during Thermal Reduction of Graphene Oxide in Vacuum. <i>ACS Nano</i> , 2011, 5, 9710-9717.	7.3	78
111	Rational design of carbon network cross-linked SiC hollow nanosphere as anode of lithium-ion batteries. <i>Nanoscale</i> , 2014, 6, 342-351.	2.8	76
112	A high-performance catalyst support for methanol oxidation with graphene and vanadium carbonitride. <i>Nanoscale</i> , 2015, 7, 1301-1307.	2.8	75
113	Effect of relative humidity on electron distribution and ozone production by DC coronas in air. <i>IEEE Transactions on Plasma Science</i> , 2005, 33, 808-812.	0.6	74
114	Ag nanocrystal as a promoter for carbon nanotube-based room-temperature gas sensors. <i>Nanoscale</i> , 2012, 4, 5887.	2.8	71
115	Superior electrocatalysis for hydrogen evolution with crumpled graphene/tungsten disulfide/tungsten trioxide ternary nanohybrids. <i>Nano Energy</i> , 2018, 47, 66-73.	8.2	71
116	Facile Hydrothermal Synthesis of Nanostructured Hollow Iron-Cerium Alkoxides and Their Superior Arsenic Adsorption Performance. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14016-14025.	4.0	69
117	The effect of Ag nanoparticle loading on the photocatalytic activity of TiO ₂ nanorod arrays. <i>Chemical Physics Letters</i> , 2010, 485, 171-175.	1.2	68
118	Surfactant-free synthesis of graphene-functionalized carbon nanotube film as a catalytic counter electrode in dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 247, 999-1004.	4.0	68
119	Straightforward fabrication of a highly branched graphene nanosheet array for a Li-ion battery anode. <i>Journal of Materials Chemistry</i> , 2012, 22, 15514.	6.7	67
120	Vertically oriented graphene sheets grown on metallic wires for greener corona discharges: lower power consumption and minimized ozone emission. <i>Energy and Environmental Science</i> , 2011, 4, 2525.	15.6	66
121	Easy solid-phase synthesis of pH-insensitive heterogeneous CNTs/FeS Fenton-like catalyst for the removal of antibiotics from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2015, 444, 24-32.	5.0	66
122	Facile construction of novel BiOBr/Bi ₂ O ₇ /Cl ₂ heterojunction composites with enhanced photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 21-33.	5.0	66
123	Nitrogen Vacancy Structure Driven Photoelectrocatalytic Degradation of 4-Chlorophenol Using Porous Graphitic Carbon Nitride Nanosheets. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6497-6506.	3.2	65
124	Facile Synthesis of Highly Dispersed Co ₃ O ₄ Nanoparticles on Expanded, Thin Black Phosphorus for a ppb-Level NO _x Gas Sensor. <i>ACS Sensors</i> , 2018, 3, 1576-1583.	4.0	65
125	Brick-like N-doped graphene/carbon nanotube structure forming three-dimensional films as high performance metal-free counter electrodes in dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 273, 1048-1055.	4.0	64
126	Self-Healing Liquid Metal and Si Composite as a High-Performance Anode for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 1395-1399.	2.5	64

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127	Graphene as a template and structural scaffold for the synthesis of a 3D porous bio-adsorbent to remove antibiotics from water. RSC Advances, 2015, 5, 27964-27969.	1.7	62
128	Nanocasted synthesis of ordered mesoporous cerium iron mixed oxide and its excellent performances for As($\langle\text{sc}\rangle\text{v}\langle\text{sc}\rangle$) and Cr($\langle\text{sc}\rangle\text{vi}\langle\text{sc}\rangle$) removal from aqueous solutions. Dalton Transactions, 2014, 43, 10767-10777.	1.6	59
129	MnO ₂ -GO double-shelled sulfur (S@MnO ₂ @GO) as a cathode for Li-S batteries with improved rate capability and cyclic performance. Journal of Power Sources, 2017, 356, 72-79.	4.0	58
130	Adsorption of ciprofloxacin onto graphene- soy protein biocomposites. New Journal of Chemistry, 2015, 39, 3333-3336.	1.4	57
131	Pulse-Driven Capacitive Lead Ion Detection with Reduced Graphene Oxide Field-Effect Transistor Integrated with an Analyzing Device for Rapid Water Quality Monitoring. ACS Sensors, 2017, 2, 1653-1661.	4.0	57
132	Controlled decoration of carbon nanotubes with nanoparticles. Nanotechnology, 2006, 17, 2891-2894.	1.3	55
133	Nitrogen-doped activated carbon as a metal free catalyst for hydrogen production in microbial electrolysis cells. RSC Advances, 2014, 4, 49161-49164.	1.7	55
134	Three-dimensional carbon-coated Si/rGO nanostructures anchored by nickel foam with carbon nanotubes for Li-ion battery applications. Nano Energy, 2015, 15, 679-687.	8.2	55
135	Strategies for Rational Design of High-Power Lithium-Ion Batteries. Energy and Environmental Materials, 2021, 4, 19-45.	7.3	53
136	Understanding, discovery, and synthesis of 2D materials enabled by machine learning. Chemical Society Reviews, 2022, 51, 1899-1925.	18.7	53
137	3D Single-Walled Carbon Nanotube/Graphene Aerogels as Pt-Free Transparent Counter Electrodes for High Efficiency Dye-Sensitized Solar Cells. ChemSusChem, 2014, 7, 3304-3311.	3.6	52
138	Metallic Co ₂ nanowire electrodes for high cycling performance supercapacitors. Nanotechnology, 2015, 26, 494001.	1.3	52
139	One-pot synthesis of high-performance Co/graphene electrocatalysts for glucose fuel cells free of enzymes and precious metals. Chemical Communications, 2015, 51, 9354-9357.	2.2	52
140	Ultrafast hydrogen sensing through hybrids of semiconducting single-walled carbon nanotubes and tin oxide nanocrystals. Nanoscale, 2012, 4, 1275.	2.8	51
141	A simple and versatile mini-arc plasma source for nanocrystal synthesis. Journal of Nanoparticle Research, 2007, 9, 203-213.	0.8	50
142	Nitrogen-doped graphene-vanadium carbide hybrids as a high-performance oxygen reduction reaction electrocatalyst support in alkaline media. Journal of Materials Chemistry A, 2013, 1, 13404.	5.2	50
143	Phosphorus/Carbon Composite Anode for Potassium-Ion Batteries: Insights into High Initial Coulombic Efficiency and Superior Cyclic Performance. ACS Sustainable Chemistry and Engineering, 2018, 6, 16308-16314.	3.2	50
144	Free standing TiO ₂ nanotube array electrodes with an ultra-thin Al ₂ O ₃ barrier layer and TiCl ₄ surface modification for highly efficient dye sensitized solar cells. Nanoscale, 2013, 5, 10438.	2.8	49

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145	Graphene-Based Materials for Photoanodes in Dye-Sensitized Solar Cells. <i>Frontiers in Energy Research</i> , 2015, 3, .	1.2	49
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