

Yuegang Zhang

List of Publications by Year in descending order

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202
papers

83,880
citations

9264

74
h-index

2629

194
g-index

210
all docs

210
docs citations

210
times ranked

68502
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric Field Effect in Atomically Thin Carbon Films. <i>Science</i> , 2004, 306, 666-669.	12.6	56,177
2	Room-Temperature Quantum Hall Effect in Graphene. <i>Science</i> , 2007, 315, 1379-1379.	12.6	2,662
3	Noncovalent Sidewall Functionalization of Single-Walled Carbon Nanotubes for Protein Immobilization. <i>Journal of the American Chemical Society</i> , 2001, 123, 3838-3839.	13.7	2,472
4	Gate-Variable Optical Transitions in Graphene. <i>Science</i> , 2008, 320, 206-209.	12.6	1,433
5	Graphene Oxide as a Sulfur Immobilizer in High Performance Lithium/Sulfur Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 18522-18525.	13.7	1,415
6	Measurement of Scattering Rate and Minimum Conductivity in Graphene. <i>Physical Review Letters</i> , 2007, 99, 246803.	7.8	905
7	High-Rate, Ultralong Cycle-Life Lithium/Sulfur Batteries Enabled by Nitrogen-Doped Graphene. <i>Nano Letters</i> , 2014, 14, 4821-4827.	9.1	683
8	Growth of Single-Walled Carbon Nanotubes from Discrete Catalytic Nanoparticles of Various Sizes. <i>Journal of Physical Chemistry B</i> , 2001, 105, 11424-11431.	2.6	648
9	Metal coating on suspended carbon nanotubes and its implication to metal-tube interaction. <i>Chemical Physics Letters</i> , 2000, 331, 35-41.	2.6	576
10	Electric-field-directed growth of aligned single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2001, 79, 3155-3157.	3.3	568
11	Porous carbon nanofiber-sulfur composite electrodes for lithium/sulfur cells. <i>Energy and Environmental Science</i> , 2011, 4, 5053.	30.8	562
12	Analytical model for subthreshold conduction and threshold switching in chalcogenide-based memory devices. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	507
13	Coaxial Nanocable: Silicon Carbide and Silicon Oxide Sheathed with Boron Nitride and Carbon. , 1998, 281, 973-975.		491
14	Lithium/sulfur batteries with high specific energy: old challenges and new opportunities. <i>Nanoscale</i> , 2013, 5, 2186.	5.6	480
15	Direct Chemical Vapor Deposition of Graphene on Dielectric Surfaces. <i>Nano Letters</i> , 2010, 10, 1542-1548.	9.1	439
16	A Long-Life, High-Rate Lithium/Sulfur Cell: A Multifaceted Approach to Enhancing Cell Performance. <i>Nano Letters</i> , 2013, 13, 5891-5899.	9.1	404
17	Heterostructures of Single-Walled Carbon Nanotubes and Carbide Nanorods. <i>Science</i> , 1999, 285, 1719-1722.	12.6	385
18	Formation of metal nanowires on suspended single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2000, 77, 3015-3017.	3.3	363

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19	A Graphene-like Oxygenated Carbon Nitride Material for Improved Cycle-Life Lithium/Sulfur Batteries. Nano Letters, 2015, 15, 5137-5142.	9.1	358
20	Molecular photodesorption from single-walled carbon nanotubes. Applied Physics Letters, 2001, 79, 2258-2260.	3.3	357
21	Efficient solar-driven water splitting by nanocone BiVO ₄ -perovskite tandem cells. Science Advances, 2016, 2, e1501764.	10.3	351
22	Fermi velocity engineering in graphene by substrate modification. Scientific Reports, 2012, 2, .	3.3	344
23	Efficient Photoelectrochemical Water Splitting with Ultrathin films of Hematite on Three-Dimensional Nanophotonic Structures. Nano Letters, 2014, 14, 2123-2129.	9.1	307
24	Electronic structure and chemical bonding of a graphene oxide-sulfur nanocomposite for use in superior performance lithium-sulfur cells. Physical Chemistry Chemical Physics, 2012, 14, 13670.	2.8	305
25	Nanostructured Li ₂ S-C Composites as Cathode Material for High-Energy Lithium/Sulfur Batteries. Nano Letters, 2012, 12, 6474-6479.	9.1	286
26	Wrapping Aligned Carbon Nanotube Composite Sheets around Vanadium Nitride Nanowire Arrays for Asymmetric Coaxial Fiber-Shaped Supercapacitors with Ultrahigh Energy Density. Nano Letters, 2017, 17, 2719-2726.	9.1	281
27	Fe ₃ O ₄ nanoparticle-integrated graphene sheets for high-performance half and full lithium ion cells. Physical Chemistry Chemical Physics, 2011, 13, 7170.	2.8	238
28	Metal-catalyzed crystallization of amorphous carbon to graphene. Applied Physics Letters, 2010, 96, .	3.3	234
29	Constructing Ultrahigh-Capacity Zinc-Nickel-Cobalt Oxide@Ni(OH) ₂ Core-Shell Nanowire Arrays for High-Performance Coaxial Fiber-Shaped Asymmetric Supercapacitors. Nano Letters, 2017, 17, 7552-7560.	9.1	231
30	Supramolecular polymers with tunable topologies via hierarchical coordination-driven self-assembly and hydrogen bonding interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15585-15590.	7.1	221
31	Multilayer nanoassembly of Sn-nanopillar arrays sandwiched between graphene layers for high-capacity lithium storage. Energy and Environmental Science, 2011, 4, 3611.	30.8	218
32	Heterogeneous growth of Bi-C-N nanotubes by laser ablation. Chemical Physics Letters, 1997, 279, 264-269.	2.6	209
33	Mass-production of single-wall carbon nanotubes by arc discharge method ¹¹ This work was supported by the National Natural Science Foundation of China, No. 29671030.. Carbon, 1999, 37, 1449-1453.	10.3	207
34	Single-atom catalyst boosts electrochemical conversion reactions in batteries. Energy Storage Materials, 2019, 18, 246-252.	18.0	203
35	Stretchable fiber-shaped asymmetric supercapacitors with ultrahigh energy density. Nano Energy, 2017, 39, 219-228.	16.0	200
36	All-Solid-State Fiber Supercapacitors with Ultrahigh Volumetric Energy Density and Outstanding Flexibility. Advanced Energy Materials, 2019, 9, 1802753.	19.5	197

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37	Elastic Response of Carbon Nanotube Bundles to Visible Light. <i>Physical Review Letters</i> , 1999, 82, 3472-3475.	7.8	157
38	Selenium-doped Black Phosphorus for High-Responsivity 2D Photodetectors. <i>Small</i> , 2016, 12, 5000-5007.	10.0	156
39	Temperature dependence of the Raman spectra of single-wall carbon nanotubes. <i>Applied Physics Letters</i> , 2000, 76, 2053-2055.	3.3	154
40	Evidence for trap-limited transport in the subthreshold conduction regime of chalcogenide glasses. <i>Applied Physics Letters</i> , 2007, 90, 192102.	3.3	153
41	Graphene/Si multilayer structure anodes for advanced half and full lithium-ion cells. <i>Nano Energy</i> , 2012, 1, 164-171.	16.0	151
42	Large scale synthesis of single-wall carbon nanotubes by arc-discharge method. <i>Journal of Physics and Chemistry of Solids</i> , 2000, 61, 1031-1036.	4.0	147
43	Dense integration of graphene and sulfur through the soft approach for compact lithium/sulfur battery cathode. <i>Nano Energy</i> , 2015, 12, 468-475.	16.0	142
44	High Electroactive Material Loading on a Carbon Nanotube@3D Graphene Aerogel for High-Performance Flexible All-Solid-State Asymmetric Supercapacitors. <i>Advanced Functional Materials</i> , 2017, 27, 1701122.	14.9	138
45	Photocatalytic performance enhancement of CuO/Cu ₂ O heterostructures for photodegradation of organic dyes: Effects of CuO morphology. <i>Applied Catalysis B: Environmental</i> , 2017, 211, 199-204.	20.2	136
46	Achieving commercial-level mass loading in ternary-doped holey graphene hydrogel electrodes for ultrahigh energy density supercapacitors. <i>Nano Energy</i> , 2018, 46, 266-276.	16.0	135
47	Imaging as-grown single-walled carbon nanotubes originated from isolated catalytic nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, 325-328.	2.3	132
48	Liquid-Phase Electrochemical Scanning Electron Microscopy for In Situ Investigation of Lithium Dendrite Growth and Dissolution. <i>Advanced Materials</i> , 2017, 29, 1606187.	21.0	128
49	Single-wall carbon nanotubes synthesized by laser ablation in a nitrogen atmosphere. <i>Applied Physics Letters</i> , 1998, 73, 3827-3829.	3.3	124
50	Carbon nanofiber supercapacitors with large areal capacitances. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	123
51	Fabrication of Nb ₂ O ₅ Nanosheets for High-rate Lithium Ion Storage Applications. <i>Scientific Reports</i> , 2015, 5, 8326.	3.3	123
52	Structure modification of single-wall carbon nanotubes. <i>Carbon</i> , 2000, 38, 2055-2059.	10.3	121
53	Optical Trapping of Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2004, 4, 1415-1419.	9.1	121
54	Monitoring Oxygen Movement by Raman Spectroscopy of Resistive Random Access Memory with a Graphene-Inserted Electrode. <i>Nano Letters</i> , 2013, 13, 651-657.	9.1	121

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55	Layered Lithium-Rich Oxide Nanoparticles Doped with Spinel Phase: Acidic Sucrose-Assistant Synthesis and Excellent Performance as Cathode of Lithium Ion Battery. ACS Applied Materials & Interfaces, 2016, 8, 4575-4584.	8.0	119
56	Converting detrimental HF in electrolytes into a highly fluorinated interphase on cathodes. Journal of Materials Chemistry A, 2018, 6, 17642-17652.	10.3	116
57	Vertically Aligned Carbon Nanotubes on Carbon Nanofibers: A Hierarchical Three-Dimensional Carbon Nanostructure for High-Energy Flexible Supercapacitors. Chemistry of Materials, 2015, 27, 1194-1200.	6.7	113
58	Wafer-Scale Integration of Graphene-based Electronic, Optoelectronic and Electroacoustic Devices. Scientific Reports, 2014, 4, 3598.	3.3	113
59	Electrostatic Force Assisted Exfoliation of Prepatterned Few-Layer Graphenes into Device Sites. Nano Letters, 2009, 9, 467-472.	9.1	112
60	Chemical routes toward long-lasting lithium/sulfur cells. Nano Research, 2016, 9, 94-116.	10.4	112
61	Carbon Nitride Supramolecular Hybrid Material Enabled High-Efficiency Photocatalytic Water Treatments. Nano Letters, 2016, 16, 6568-6575.	9.1	108
62	Synthesis, Crystal Structure, and Electrochemical Properties of a Simple Magnesium Electrolyte for Magnesium/Sulfur Batteries. Angewandte Chemie - International Edition, 2016, 55, 6406-6410.	13.8	106
63	Ultra-endurance flexible all-solid-state asymmetric supercapacitors based on three-dimensionally coated MnOx nanosheets on nanoporous current collectors. Nano Energy, 2016, 26, 610-619.	16.0	103
64	Formation of single-wall carbon nanotubes by laser ablation of fullerenes at low temperature. Applied Physics Letters, 1999, 75, 3087-3089.	3.3	101
65	Highly Nitridated Grapheneâ€“Li ₂ S Cathodes with Stable Modulated Cycles. Advanced Energy Materials, 2015, 5, 1501369.	19.5	97
66	Field-Induced n-Doping of Black Phosphorus for CMOS Compatible 2D Logic Electronics with High Electron Mobility. Advanced Functional Materials, 2017, 27, 1702211.	14.9	95
67	Asymmetric gel polymer electrolyte with high lithium ion conductivity for dendrite-free lithium metal batteries. Journal of Materials Chemistry A, 2020, 8, 8033-8040.	10.3	93
68	Single atomic cobalt catalyst significantly accelerates lithium ion diffusion in high mass loading Li ₂ S cathode. Energy Storage Materials, 2020, 28, 375-382.	18.0	92
69	Antiferromagnetic topological insulator MnBi ₂ Te ₄ : synthesis and magnetic properties. Physical Chemistry Chemical Physics, 2020, 22, 556-563.	2.8	88
70	Ultrafast All-Solid-State Coaxial Asymmetric Fiber Supercapacitors with a High Volumetric Energy Density. Advanced Energy Materials, 2018, 8, 1702946.	19.5	86
71	Tuning plasmonic and chemical enhancement for SERS detection on graphene-based Au hybrids. Nanoscale, 2015, 7, 20188-20196.	5.6	85
72	Effect of Spatial Charge Inhomogeneity on 1/f Noise Behavior in Graphene. Nano Letters, 2010, 10, 3312-3317.	9.1	83

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73	SnS ₂ nanoparticle loaded graphene nanocomposites for superior energy storage. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6981.	2.8	79
74	Infiltrating lithium into carbon cloth decorated with zinc oxide arrays for dendrite-free lithium metal anode. <i>Nano Research</i> , 2019, 12, 525-529.	10.4	79
75	High energy density lithium metal batteries enabled by a porous graphene/MgF ₂ framework. <i>Energy Storage Materials</i> , 2020, 26, 73-82.	18.0	79
76	Unzipped Carbon Nanotube/Graphene Hybrid Fiber with Less "Dead Volume" for Ultrahigh Volumetric Energy Density Supercapacitors. <i>Advanced Functional Materials</i> , 2021, 31, 2100195.	14.9	76
77	In-situ growth of vertically aligned nickel cobalt sulfide nanowires on carbon nanotube fibers for high capacitance all-solid-state asymmetric fiber-supercapacitors. <i>Journal of Energy Chemistry</i> , 2020, 41, 209-215.	12.9	75
78	Resistive Switching Crossbar Memory Based on NiO Core-Shell Nanowires. <i>Small</i> , 2011, 7, 2899-2905.	10.0	71
79	Robust electrical "highway" network for high mass loading sulfur cathode. <i>Nano Energy</i> , 2017, 40, 390-398.	16.0	68
80	Stretchable fiber-shaped lithium metal anode. <i>Energy Storage Materials</i> , 2019, 22, 179-184.	18.0	65
81	In Situ Self-Assembly of Ordered Organic/Inorganic Dual-Layered Interphase for Achieving Long-Life Dendrite-Free Li Metal Anodes in LiFSI-Based Electrolyte. <i>Advanced Functional Materials</i> , 2021, 31, 2007434.	14.9	65
82	Polyaniline-modified cetyltrimethylammonium bromide-graphene oxide-sulfur nanocomposites with enhanced performance for lithium-sulfur batteries. <i>Nano Research</i> , 2014, 7, 1355-1363.	10.4	63
83	Distinguishing Localized Surface Plasmon Resonance and Schottky Junction of Au-Cu ₂ O Composites by Their Molecular Spacer Dependence. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10958-10962.	8.0	63
84	<i>In Situ</i> X-ray Absorption Spectroscopic Investigation of the Capacity Degradation Mechanism in Mg/S Batteries. <i>Nano Letters</i> , 2019, 19, 2928-2934.	9.1	63
85	All-Solid-State High-Energy Asymmetric Supercapacitors Enabled by Three-Dimensional Mixed-Valent MnO _x Nanospire and Graphene Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22172-22180.	8.0	59
86	Three-dimensional metal/oxide nanocone arrays for high-performance electrochemical pseudocapacitors. <i>Nanoscale</i> , 2014, 6, 3626-3631.	5.6	57
87	Tuning active sites on cobalt/nitrogen doped graphene for electrocatalytic hydrogen and oxygen evolution. <i>Electrochimica Acta</i> , 2018, 265, 497-506.	5.2	56
88	A high energy density Li ₂ S@C nanocomposite cathode with a nitrogen-doped carbon nanotube top current collector. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18913-18919.	10.3	55
89	Reduced graphene oxide coated porous carbon-sulfur nanofiber as a flexible paper electrode for lithium-sulfur batteries. <i>Nanoscale</i> , 2017, 9, 9129-9138.	5.6	53
90	Controlled Precipitation of Solubilized Carbon Nanotubes by Delamination of DNA. <i>Journal of Physical Chemistry B</i> , 2006, 110, 54-57.	2.6	51

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91	Nanowire-based resistive switching memories: devices, operation and scaling. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 074006.	2.8	50
92	Improving a Mg/S Battery with YCl_3 Additive and Magnesium Polysulfide. <i>Advanced Science</i> , 2019, 6, 1800981.	11.2	50
93	Extending Cycle Life of Mg/S Battery by Activation of Mg Anode/Electrolyte Interface through an LiCl -Assisted MgCl_2 Solubilization Mechanism. <i>Advanced Functional Materials</i> , 2020, 30, 1909370.	14.9	49
94	Defects in arc-discharge-produced single-walled carbon nanotubes. <i>Philosophical Magazine Letters</i> , 1999, 79, 473-479.	1.2	48
95	All-solid-state sponge-like squeezable zinc-air battery. <i>Energy Storage Materials</i> , 2019, 23, 375-382.	18.0	47
96	Simultaneous optimization of surface chemistry and pore morphology of 3D graphene-sulfur cathode via multi-ion modulation. <i>Journal of Power Sources</i> , 2016, 321, 193-200.	7.8	46
97	A stretchable, asymmetric, coaxial fiber-shaped supercapacitor for wearable electronics. <i>Nano Research</i> , 2020, 13, 1686-1692.	10.4	46
98	Interfacial Energy-Level Alignment for High-Performance All-Inorganic Perovskite CsPbBr_3 Quantum Dot-Based Inverted Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13236-13243.	8.0	44
99	Reducing lithium deposition overpotential with silver nanocrystals anchored on graphene aerogel. <i>Nanoscale</i> , 2018, 10, 16562-16567.	5.6	44
100	Carbon nanotube-based nonvolatile memory with charge storage in metal nanocrystals. <i>Applied Physics Letters</i> , 2005, 87, 043108.	3.3	43
101	Synthesis of three-dimensional hyperbranched TiO_2 nanowire arrays with significantly enhanced photoelectrochemical hydrogen production. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4004-4009.	10.3	43
102	Fabrication of mesoporous Li_2S - C nanofibers for high performance $\text{Li}/\text{Li}_2\text{S}$ cell cathodes. <i>Nanoscale</i> , 2015, 7, 9472-9476.	5.6	43
103	Synthesis of V_2O_5 hierarchical structures for long cycle-life lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1103-1109.	10.3	43
104	A dual-spatially-confined reservoir by packing micropores within dense graphene for long-life lithium/sulfur batteries. <i>Nanoscale</i> , 2016, 8, 2395-2402.	5.6	43
105	Direct Growth of Graphene Nanoribbons for Large-Scale Device Fabrication. <i>Nano Letters</i> , 2012, 12, 6175-6179.	9.1	42
106	Scalable microgel spinning of a three-dimensional porous graphene fiber for high-performance flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25355-25362.	10.3	41
107	Flexible Electrocatalytic Nanofiber Membrane Reactor for Lithium/Sulfur Conversion Chemistry. <i>Advanced Functional Materials</i> , 2020, 30, 1910533.	14.9	41
108	Single-Atomic Catalysts Embedded on Nanocarbon Supports for High Energy Density Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2020, 13, 3404-3411.	6.8	41

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109	Stable Solid Electrolyte Interphase In Situ Formed on Magnesium-Metal Anode by using a Perfluorinated Alkoxide-Based All-Magnesium Salt Electrolyte. <i>Advanced Materials</i> , 2022, 34, .	21.0	41
110	A non-nucleophilic mono-Mg ²⁺ electrolyte for rechargeable Mg/S battery. <i>Energy Storage Materials</i> , 2018, 14, 253-257.	18.0	40
111	Lithium nitrate: A double-edged sword in the rechargeable lithium-sulfur cell. <i>Energy Storage Materials</i> , 2019, 16, 498-504.	18.0	39
112	Production of Single-Wall Carbon Nanotubes at High Pressure. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8698-8701.	2.6	38
113	X-ray photoelectron microscopy of the C _{1s} core level of free-standing single-wall carbon nanotube bundles. <i>Applied Physics Letters</i> , 2002, 80, 2165-2167.	3.3	38
114	Synthesis, Crystal Structure, and Electrochemical Properties of a Simple Magnesium Electrolyte for Magnesium/Sulfur Batteries. <i>Angewandte Chemie</i> , 2016, 128, 6516-6520.	2.0	38
115	Edge Effect on Resistance Scaling Rules in Graphene Nanostructures. <i>Nano Letters</i> , 2011, 11, 1082-1086.	9.1	37
116	Surface-enhanced Raman scattering from AgNP-graphene-AgNP sandwiched nanostructures. <i>Nanoscale</i> , 2015, 7, 17529-17537.	5.6	37
117	Scalable and Direct Growth of Graphene Micro Ribbons on Dielectric Substrates. <i>Scientific Reports</i> , 2013, 3, 1348.	3.3	36
118	Graphene quantum dot antennas for high efficiency Förster resonance energy transfer based dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2017, 343, 39-46.	7.8	35
119	Free-Standing, Binder-Free Titania/Super-Aligned Carbon Nanotube Anodes for Flexible and Fast-Charging Li-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3426-3433.	6.7	34
120	Simultaneously Regulating Lithium Ion Flux and Surface Activity for Dendrite-Free Lithium Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5159-5167.	8.0	33
121	Single-wall carbon nanotube colloids in polar solvents. <i>Chemical Communications</i> , 2000, , 461-462.	4.1	32
122	Electronic structure study of ordering and interfacial interaction in graphene/Cu composites. <i>Carbon</i> , 2012, 50, 5316-5322.	10.3	32
123	Impact of size on energy storage performance of graphene based supercapacitor electrode. <i>Electrochimica Acta</i> , 2016, 219, 463-469.	5.2	32
124	Construction of Moisture-Stable Lithium Diffusion Controlling Layer toward High Performance Dendrite-Free Lithium Anode. <i>Advanced Functional Materials</i> , 2022, 32, 2110468.	14.9	32
125	Free-Standing Black Phosphorus Thin Films for Flexible Quasi-Solid-State Micro-Supercapacitors with High Volumetric Power and Energy Density. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5938-5946.	8.0	31
126	Recent advances in research on anodes for safe and efficient lithium-metal batteries. <i>Nanoscale</i> , 2020, 12, 15528-15559.	5.6	31

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127	Unraveling Shuttle Effect and Suppression Strategy in Lithium/Sulfur Cells by In Situ/Operando X-ray Absorption Spectroscopic Characterization. <i>Energy and Environmental Materials</i> , 2021, 4, 222-228.	12.8	31
128	Highly defective graphite for scalable synthesis of nitrogen doped holey graphene with high volumetric capacitance. <i>Journal of Power Sources</i> , 2016, 334, 104-111.	7.8	30
129	Synergistic effects of CuO and Au nanodomains on Cu ₂ O cubes for improving photocatalytic activity and stability. <i>Chinese Journal of Catalysis</i> , 2019, 40, 105-113.	14.0	30
130	Variability Effects in Graphene: Challenges and Opportunities for Device Engineering and Applications. <i>Proceedings of the IEEE</i> , 2013, 101, 1670-1688.	21.3	29
131	In Situ Electrochemically Derived Amorphous Li ₂ S for High Performance Li ₂ S/Graphite Full Cell. <i>Small</i> , 2018, 14, e1703871.	10.0	29
132	High areal capacity flexible sulfur cathode based on multi-functionalized super-aligned carbon nanotubes. <i>Nano Research</i> , 2019, 12, 1105-1113.	10.4	28
133	Enhanced Conductance Fluctuation by Quantum Confinement Effect in Graphene Nanoribbons. <i>Nano Letters</i> , 2010, 10, 4590-4594.	9.1	27
134	Electronic transport properties of zigzag carbon- and boron-nitride-nanotube heterostructures. <i>Solid State Communications</i> , 2012, 152, 1061-1066.	1.9	27
135	Hierarchical Sulfur-Doped Graphene Foam Embedded with Sn Nanoparticles for Superior Lithium Storage in LiFSI-Based Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30500-30507.	8.0	27
136	Multi-ion Modulated Single-Step Synthesis of a Nanocarbon Embedded with a Defect-Rich Nanoparticle Catalyst for a High Loading Sulfur Cathode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12727-12735.	8.0	27
137	Mechanistic Investigation of Polymer-Based All-Solid-State Lithium/Sulfur Battery. <i>Advanced Functional Materials</i> , 2021, 31, 2104863.	14.9	26
138	Coiled structure of eccentric coaxial nanocable made of amorphous boron and silicon oxide. <i>Applied Physics Letters</i> , 2000, 76, 1564-1566.	3.3	25
139	Synergistic promotion of photoelectrochemical water splitting efficiency of TiO ₂ nanorods using metal-semiconducting nanoparticles. <i>Applied Surface Science</i> , 2017, 420, 631-637.	6.1	25
140	In-Situ XAS Investigation of the Effect of Electrochemical Reactions on the Structure of Graphene in Aqueous Electrolytes. <i>Journal of the Electrochemical Society</i> , 2013, 160, C445-C450.	2.9	23
141	Polarized X-ray Absorption Spectroscopy Observation of Electronic and Structural Changes of Chemical Vapor Deposition Graphene in Contact with Water. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25456-25459.	3.1	23
142	Freestanding Carbon Nanotube Film for Flexible Straplike Lithium/Sulfur Batteries. <i>Chemistry - A European Journal</i> , 2019, 25, 3775-3780.	3.3	23
143	Boosting electrocatalytic oxygen evolution using ultrathin carbon protected iron-cobalt carbonate hydroxide nanoneedle arrays. <i>Journal of Power Sources</i> , 2020, 450, 227639.	7.8	23
144	Abnormal anti-Stokes Raman scattering of carbon nanotubes. <i>Physical Review B</i> , 2002, 66, .	3.2	22

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145	Nanopencil as a wear-tolerant probe for ultrahigh density data storage. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	22
146	An Ultraclean Tip-Wear Reduction Scheme for Ultrahigh Density Scanning Probe-Based Data Storage. <i>ACS Nano</i> , 2010, 4, 5713-5720.	14.6	21
147	A highly integrated All-manganese battery with oxide nanoparticles supported on the cathode and anode by super-aligned carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4494-4504.	10.3	21
148	Improved cycling stability of the capping agent-free nanocrystalline FeS ₂ cathode via an upper cut-off voltage control. <i>Journal of Materials Science</i> , 2017, 52, 2442-2451.	3.7	20
149	A non-nucleophilic gel polymer magnesium electrolyte compatible with sulfur cathode. <i>Nano Research</i> , 2020, 13, 2749-2754.	10.4	20
150	Microscopic structure of as-grown single-wall carbon nanotubes by laser ablation. <i>Philosophical Magazine Letters</i> , 1998, 78, 139-144.	1.2	19
151	Low-noise submicron channel graphene nanoribbons. <i>Applied Physics Letters</i> , 2010, 97, 073107.	3.3	19
152	Commercial-Level Energy Storage via Free-Standing Stacking Electrodes. <i>Matter</i> , 2019, 1, 1694-1709.	10.0	19
153	Fully inverted single-digit nanometer domains in ferroelectric films. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	17
154	Temperature-Dependent Electron-Electron Interaction in Graphene on SrTiO ₃ . <i>Nano Letters</i> , 2017, 17, 5914-5918.	9.1	17
155	Folded-up thin carbon nanosheets grown on Cu ₂ O cubes for improving photocatalytic activity. <i>Nanoscale</i> , 2017, 9, 12348-12352.	5.6	17
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