

Yuegang Zhang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

196 papers	70,711 citations	68 h-index	209 g-index
209 ext. papers	77,841 ext. citations	10.2 avg, IF	7.5 L-index

#	Paper	IF	Citations
196	Electric field effect in atomically thin carbon films. <i>Science</i> , 2004 , 306, 666-9	33.3	47045
195	Room-temperature quantum Hall effect in graphene. <i>Science</i> , 2007 , 315, 1379	33.3	2342
194	Noncovalent sidewall functionalization of single-walled carbon nanotubes for protein immobilization. <i>Journal of the American Chemical Society</i> , 2001 , 123, 3838-9	16.4	2249
193	Graphene oxide as a sulfur immobilizer in high performance lithium/sulfur cells. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18522-5	16.4	1303
192	Gate-variable optical transitions in graphene. <i>Science</i> , 2008 , 320, 206-9	33.3	1215
191	Measurement of scattering rate and minimum conductivity in graphene. <i>Physical Review Letters</i> , 2007 , 99, 246803	7.4	803
190	High-rate, ultralong cycle-life lithium/sulfur batteries enabled by nitrogen-doped graphene. <i>Nano Letters</i> , 2014 , 14, 4821-7	11.5	615
189	Growth of Single-Walled Carbon Nanotubes from Discrete Catalytic Nanoparticles of Various Sizes. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 11424-11431	3.4	595
188	Porous carbon nanofiber/sulfur composite electrodes for lithium/sulfur cells. <i>Energy and Environmental Science</i> , 2011 , 4, 5053	35.4	527
187	Metal coating on suspended carbon nanotubes and its implication to metal/tube interaction. <i>Chemical Physics Letters</i> , 2000 , 331, 35-41	2.5	526
186	Electric-field-directed growth of aligned single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2001 , 79, 3155-3157	3.4	497
185	Coaxial nanocable: silicon carbide and silicon oxide sheathed with boron nitride and carbon. <i>Science</i> , 1998 , 281, 973-5	33.3	443
184	Lithium/sulfur batteries with high specific energy: old challenges and new opportunities. <i>Nanoscale</i> , 2013 , 5, 2186-204	7.7	429
183	Analytical model for subthreshold conduction and threshold switching in chalcogenide-based memory devices. <i>Journal of Applied Physics</i> , 2007 , 102, 054517	2.5	425
182	Direct chemical vapor deposition of graphene on dielectric surfaces. <i>Nano Letters</i> , 2010 , 10, 1542-8	11.5	387
181	A long-life, high-rate lithium/sulfur cell: a multifaceted approach to enhancing cell performance. <i>Nano Letters</i> , 2013 , 13, 5891-9	11.5	373
180	Heterostructures of single-walled carbon nanotubes and carbide nanorods. <i>Science</i> , 1999 , 285, 1719-22	33.3	351

- 179 Formation of metal nanowires on suspended single-walled carbon nanotubes. *Applied Physics Letters*, **2000**, 77, 3015-3017 3.4 337
- 178 Molecular photodesorption from single-walled carbon nanotubes. *Applied Physics Letters*, **2001**, 79, 2258-2260 3.4 319
- 177 A Graphene-like Oxygenated Carbon Nitride Material for Improved Cycle-Life Lithium/Sulfur Batteries. *Nano Letters*, **2015**, 15, 5137-42 11.5 314
- 176 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, 13670-5 3.6 282
- 175 Efficient solar-driven water splitting by nanocone BiVO₄-perovskite tandem cells. *Science Advances*, **2016**, 2, e1501764 14.3 281
- 174 Efficient photoelectrochemical water splitting with ultrathin films of hematite on three-dimensional nanophotonic structures. *Nano Letters*, **2014**, 14, 2123-9 11.5 277
- 173 Fermi velocity engineering in graphene by substrate modification. *Scientific Reports*, **2012**, 2, 4.9 269
- 172 Nanostructured LiS-C composites as cathode material for high-energy lithium/sulfur batteries. *Nano Letters*, **2012**, 12, 6474-9 11.5 258
- 171 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 11.5 233
- 170 Fe₃O₄ nanoparticle-integrated graphene sheets for high-performance half and full lithium ion cells. *Physical Chemistry Chemical Physics*, **2011**, 13, 7170-7 3.6 229
- 169 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, 15585-90 11.5 210
- 168 Metal-catalyzed crystallization of amorphous carbon to graphene. *Applied Physics Letters*, **2010**, 96, 063110 3.4 208
- 167 Multilayer nanoassembly of Sn-nanopillar arrays sandwiched between graphene layers for high-capacity lithium storage. *Energy and Environmental Science*, **2011**, 4, 3611 35.4 204
- 166 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 11.5 196
- 165 Heterogeneous growth of B₂C₂N nanotubes by laser ablation. *Chemical Physics Letters*, **1997**, 279, 264-269 10.4 189
- 164 Mass-production of single-wall carbon nanotubes by arc discharge method¹¹This work was supported by the National Natural Science Foundation of China, No. 29671030.. *Carbon*, **1999**, 37, 1449-1453 10.4 176
- 163 Stretchable fiber-shaped asymmetric supercapacitors with ultrahigh energy density. *Nano Energy*, **2017**, 39, 219-228 17.1 158
- 162 Temperature dependence of the Raman spectra of single-wall carbon nanotubes. *Applied Physics Letters*, **2000**, 76, 2053-2055 3.4 142

161	All-Solid-State Fiber Supercapacitors with Ultrahigh Volumetric Energy Density and Outstanding Flexibility. <i>Advanced Energy Materials</i> , 2019 , 9, 1802753	21.8	140
160	Elastic Response of Carbon Nanotube Bundles to Visible Light. <i>Physical Review Letters</i> , 1999 , 82, 3472-3475	17.1	136
159	Dense integration of graphene and sulfur through the soft approach for compact lithium/sulfur battery cathode. <i>Nano Energy</i> , 2015 , 12, 468-475	17.1	135
158	Graphene/Si multilayer structure anodes for advanced half and full lithium-ion cells. <i>Nano Energy</i> , 2012 , 1, 164-171	17.1	134
157	Selenium-Doped Black Phosphorus for High-Responsivity 2D Photodetectors. <i>Small</i> , 2016 , 12, 5000-5007	11	132
156	Evidence for trap-limited transport in the subthreshold conduction regime of chalcogenide glasses. <i>Applied Physics Letters</i> , 2007 , 90, 192102	3.4	126
155	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	3.9	126
154	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	15.6	125
153	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	2.6	123
152	Single-atom catalyst boosts electrochemical conversion reactions in batteries. <i>Energy Storage Materials</i> , 2019 , 18, 246-252	19.4	121
151	Carbon nanofiber supercapacitors with large areal capacitances. <i>Applied Physics Letters</i> , 2009 , 95, 243109	3.4	114
150	Structure modification of single-wall carbon nanotubes. <i>Carbon</i> , 2000 , 38, 2055-2059	10.4	111
149	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	17.1	110
148	Monitoring oxygen movement by Raman spectroscopy of resistive random access memory with a graphene-inserted electrode. <i>Nano Letters</i> , 2013 , 13, 651-7	11.5	106
147	Fabrication of Nb ₂ O ₅ nanosheets for high-rate lithium ion storage applications. <i>Scientific Reports</i> , 2015 , 5, 8326	4.9	105
146	Single-wall carbon nanotubes synthesized by laser ablation in a nitrogen atmosphere. <i>Applied Physics Letters</i> , 1998 , 73, 3827-3829	3.4	105
145	Chemical routes toward long-lasting lithium/sulfur cells. <i>Nano Research</i> , 2016 , 9, 94-116	10	101
144	Optical Trapping of Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2004 , 4, 1415-1419	11.5	100

143	Layered Lithium-Rich Oxide Nanoparticles Doped with Spinel Phase: Acidic Sucrose-Assistant Synthesis and Excellent Performance as Cathode of Lithium Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4575-84	9.5	99
142	Ultra-endurance flexible all-solid-state asymmetric supercapacitors based on three-dimensionally coated MnOx nanosheets on nanoporous current collectors. <i>Nano Energy</i> , 2016 , 26, 610-619	17.1	96
141	Vertically Aligned Carbon Nanotubes on Carbon Nanofibers: A Hierarchical Three-Dimensional Carbon Nanostructure for High-Energy Flexible Supercapacitors. <i>Chemistry of Materials</i> , 2015 , 27, 1194-1200	9.6	96
140	Electrostatic force assisted exfoliation of prepatterned few-layer graphenes into device sites. <i>Nano Letters</i> , 2009 , 9, 467-72	11.5	96
139	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	21.8	95
138	Liquid-Phase Electrochemical Scanning Electron Microscopy for In Situ Investigation of Lithium Dendrite Growth and Dissolution. <i>Advanced Materials</i> , 2017 , 29, 1606187	24	91
137	Synthesis, Crystal Structure, and Electrochemical Properties of a Simple Magnesium Electrolyte for Magnesium/Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6406-10	16.4	87
136	Highly Nitridated Graphene Li ₂ S Cathodes with Stable Modulated Cycles. <i>Advanced Energy Materials</i> , 2015 , 5, 1501369	21.8	87
135	Formation of single-wall carbon nanotubes by laser ablation of fullerenes at low temperature. <i>Applied Physics Letters</i> , 1999 , 75, 3087-3089	3.4	85
134	Wafer-scale integration of graphene-based electronic, optoelectronic and electroacoustic devices. <i>Scientific Reports</i> , 2014 , 4, 3598	4.9	84
133	Carbon Nitride Supramolecular Hybrid Material Enabled High-Efficiency Photocatalytic Water Treatments. <i>Nano Letters</i> , 2016 , 16, 6568-6575	11.5	83
132	Field-Induced n-Doping of Black Phosphorus for CMOS Compatible 2D Logic Electronics with High Electron Mobility. <i>Advanced Functional Materials</i> , 2017 , 27, 1702211	15.6	80
131	Effect of spatial charge inhomogeneity on 1/f noise behavior in graphene. <i>Nano Letters</i> , 2010 , 10, 3312-711.5	11.5	75
130	Ultrafast All-Solid-State Coaxial Asymmetric Fiber Supercapacitors with a High Volumetric Energy Density. <i>Advanced Energy Materials</i> , 2018 , 8, 1702946	21.8	73
129	Converting detrimental HF in electrolytes into a highly fluorinated interphase on cathodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17642-17652	13	70
128	SnS ₂ nanoparticle loaded graphene nanocomposites for superior energy storage. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 6981-6	3.6	67
127	Resistive-switching crossbar memory based on Ni-NiO core-shell nanowires. <i>Small</i> , 2011 , 7, 2899-905	11	66
126	Tuning plasmonic and chemical enhancement for SERS detection on graphene-based Au hybrids. <i>Nanoscale</i> , 2015 , 7, 20188-96	7.7	65

125	Polyaniline-modified cetyltrimethylammonium bromide-graphene oxide-sulfur nanocomposites with enhanced performance for lithium-sulfur batteries. <i>Nano Research</i> , 2014 , 7, 1355-1363	10	58
124	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	58
123	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, 10958-62	9.5	53
122	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, 22172-80	9.5	52
121	Robust electrical Highway network for high mass loading sulfur cathode. <i>Nano Energy</i> , 2017 , 40, 390-398	17.1	52
120	Three-dimensional metal/oxide nanocone arrays for high-performance electrochemical pseudocapacitors. <i>Nanoscale</i> , 2014 , 6, 3626-31	7.7	50
119	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	13	49
118	Controlled precipitation of solubilized carbon nanotubes by delamination of DNA. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 54-7	3.4	48
117	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	45
116	In Situ X-ray Absorption Spectroscopic Investigation of the Capacity Degradation Mechanism in Mg/S Batteries. <i>Nano Letters</i> , 2019 , 19, 2928-2934	11.5	44
115	Nanowire-based resistive switching memories: devices, operation and scaling. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 074006	3	43
114	Stretchable Fiber-shaped lithium metal anode. <i>Energy Storage Materials</i> , 2019 , 22, 179-184	19.4	43
113	Reduced graphene oxide coated porous carbon-sulfur nanofiber as a flexible paper electrode for lithium-sulfur batteries. <i>Nanoscale</i> , 2017 , 9, 9129-9138	7.7	42
112	Synthesis of V ₂ O ₅ hierarchical structures for long cycle-life lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1103-1109	13	42
111	Asymmetric gel polymer electrolyte with high lithium ion conductivity for dendrite-free lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8033-8040	13	42
110	Single atomic cobalt catalyst significantly accelerates lithium ion diffusion in high mass loading Li ₂ S cathode. <i>Energy Storage Materials</i> , 2020 , 28, 375-382	19.4	42
109	Defects in arc-discharge-produced single-walled carbon nanotubes. <i>Philosophical Magazine Letters</i> , 1999 , 79, 473-479	1	42
108	High energy density lithium metal batteries enabled by a porous graphene/MgF ₂ framework. <i>Energy Storage Materials</i> , 2020 , 26, 73-82	19.4	42

107	Tuning active sites on cobalt/nitrogen doped graphene for electrocatalytic hydrogen and oxygen evolution. <i>Electrochimica Acta</i> , 2018 , 265, 497-506	6.7	40
106	A dual-spatially-confined reservoir by packing micropores within dense graphene for long-life lithium/sulfur batteries. <i>Nanoscale</i> , 2016 , 8, 2395-402	7.7	40
105	Carbon nanotube-based nonvolatile memory with charge storage in metal nanocrystals. <i>Applied Physics Letters</i> , 2005 , 87, 043108	3.4	40
104	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	13	38
103	Fabrication of mesoporous Li ₂ S-C nanofibers for high performance Li/Li ₂ S cell cathodes. <i>Nanoscale</i> , 2015 , 7, 9472-6	7.7	38
102	Antiferromagnetic topological insulator MnBiTe: synthesis and magnetic properties. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 556-563	3.6	38
101	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	9.5	36
100	Direct growth of graphene nanoribbons for large-scale device fabrication. <i>Nano Letters</i> , 2012 , 12, 6175-9	11.5	36
99	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	3.4	36
98	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	8.9	36
97	Production of Single-Wall Carbon Nanotubes at High Pressure. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 8698-8701	3.4	35
96	Edge effect on resistance scaling rules in graphene nanostructures. <i>Nano Letters</i> , 2011 , 11, 1082-6	11.5	34
95	Surface-enhanced Raman scattering from AgNP-graphene-AgNP sandwiched nanostructures. <i>Nanoscale</i> , 2015 , 7, 17529-37	7.7	33
94	Synthesis, Crystal Structure, and Electrochemical Properties of a Simple Magnesium Electrolyte for Magnesium/Sulfur Batteries. <i>Angewandte Chemie</i> , 2016 , 128, 6516-6520	3.6	33
93	Improving a Mg/S Battery with YCl Additive and Magnesium Polysulfide. <i>Advanced Science</i> , 2019 , 6, 1800986	9.8	33
92	All-solid-state sponge-like squeezable zinc-air battery. <i>Energy Storage Materials</i> , 2019 , 23, 375-382	19.4	32
91	Reducing lithium deposition overpotential with silver nanocrystals anchored on graphene aerogel. <i>Nanoscale</i> , 2018 , 10, 16562-16567	7.7	32
90	A non-nucleophilic mono-Mg ²⁺ electrolyte for rechargeable Mg/S battery. <i>Energy Storage Materials</i> , 2018 , 14, 253-257	19.4	30

89	Single-wall carbon nanotube colloids in polar solvents. <i>Chemical Communications</i> , 2000 , 461-462	5.8	30
88	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	8.9	29
87	Scalable and direct growth of graphene micro ribbons on dielectric substrates. <i>Scientific Reports</i> , 2013 , 3, 1348	4.9	29
86	Electronic structure study of ordering and interfacial interaction in graphene/Cu composites. <i>Carbon</i> , 2012 , 50, 5316-5322	10.4	29
85	Unzipped Carbon Nanotube/Graphene Hybrid Fiber with Less Dead Volume For Ultrahigh Volumetric Energy Density Supercapacitors. <i>Advanced Functional Materials</i> , 2021 , 31, 2100195	15.6	29
84	Impact of size on energy storage performance of graphene based supercapacitor electrode. <i>Electrochimica Acta</i> , 2016 , 219, 463-469	6.7	28
83	A stretchable, asymmetric, coaxial fiber-shaped supercapacitor for wearable electronics. <i>Nano Research</i> , 2020 , 13, 1686-1692	10	26
82	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	8.9	26
81	Enhanced conductance fluctuation by quantum confinement effect in graphene nanoribbons. <i>Nano Letters</i> , 2010 , 10, 4590-4	11.5	26
80	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	15.6	26
79	High areal capacity flexible sulfur cathode based on multi-functionalized super-aligned carbon nanotubes. <i>Nano Research</i> , 2019 , 12, 1105-1113	10	25
78	. <i>Proceedings of the IEEE</i> , 2013 , 101, 1670-1688	14.3	25
77	Lithium nitrate: A double-edged sword in the rechargeable lithium-sulfur cell. <i>Energy Storage Materials</i> , 2019 , 16, 498-504	19.4	25
76	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	15.6	25
75	Flexible Electrocatalytic Nanofiber Membrane Reactor for Lithium/Sulfur Conversion Chemistry. <i>Advanced Functional Materials</i> , 2020 , 30, 1910533	15.6	24
74	Electronic transport properties of zigzag carbon- and boron-nitride-nanotube heterostructures. <i>Solid State Communications</i> , 2012 , 152, 1061-1066	1.6	24
73	Coiled structure of eccentric coaxial nanocable made of amorphous boron and silicon oxide. <i>Applied Physics Letters</i> , 2000 , 76, 1564-1566	3.4	24
72	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	3.8	23

71	Simultaneously Regulating Lithium Ion Flux and Surface Activity for Dendrite-Free Lithium Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5159-5167	9.5	23
70	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	8.3	22
69	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	8.5	22
68	Synergistic promotion of photoelectrochemical water splitting efficiency of TiO ₂ nanorods using metal-semiconducting nanoparticles. <i>Applied Surface Science</i> , 2017 , 420, 631-637	6.7	20
67	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	3.9	20
66	Nanopencil as a wear-tolerant probe for ultrahigh density data storage. <i>Applied Physics Letters</i> , 2008 , 93, 103112	3.4	20
65	Abnormal anti-Stokes Raman scattering of carbon nanotubes. <i>Physical Review B</i> , 2002 , 66,	3.3	20
64	An ultraclean tip-wear reduction scheme for ultrahigh density scanning probe-based data storage. <i>ACS Nano</i> , 2010 , 4, 5713-20	16.7	19
63	Single-Atomic Catalysts Embedded on Nanocarbon Supports for High Energy Density Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2020 , 13, 3404-3411	8.3	19
62	In Situ Electrochemically Derived Amorphous-Li S for High Performance Li S/Graphite Full Cell. <i>Small</i> , 2018 , 14, e1703871	11	18
61	Low-noise submicron channel graphene nanoribbons. <i>Applied Physics Letters</i> , 2010 , 97, 073107	3.4	17
60	Microscopic structure of as-grown single-wall carbon nanotubes by laser ablation. <i>Philosophical Magazine Letters</i> , 1998 , 78, 139-144	1	17
59	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	11.3	17
58	Freestanding Carbon Nanotube Film for Flexible Straplike Lithium/Sulfur Batteries. <i>Chemistry - A European Journal</i> , 2019 , 25, 3775-3780	4.8	16
57	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	4.3	15
56	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	13	15
55	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	9.5	15
54	Temperature-Dependent Electron-Electron Interaction in Graphene on SrTiO ₃ . <i>Nano Letters</i> , 2017 , 17, 5914-5918	11.5	15

- 53 Fully inverted single-digit nanometer domains in ferroelectric films. *Applied Physics Letters*, **2010**, 96, 023103 3.4 15
- 52 Scalable microgel spinning of a three-dimensional porous graphene fiber for high-performance flexible supercapacitors. *Journal of Materials Chemistry A*, **2020**, 8, 25355-25362 13 15
- 51 Multi-ion Modulated Single-Step Synthesis of a Nanocarbon Embedded with a Defect-Rich Nanoparticle Catalyst for a High Loading Sulfur Cathode. *ACS Applied Materials & Interfaces*, **2020**, 12, 12727-12735 9.5 14
- 50 Folded-up thin carbon nanosheets grown on CuO cubes for improving photocatalytic activity. *Nanoscale*, **2017**, 9, 12348-12352 7.7 14
- 49 A non-nucleophilic gel polymer magnesium electrolyte compatible with sulfur cathode. *Nano Research*, **2020**, 13, 2749-2754 10 13
- 48 Enhanced Charge Collection for Splitting of Water Enabled by an Engineered Three-Dimensional Nanospike Array. *Journal of Physical Chemistry C*, **2014**, 118, 22465-22472 3.8 13
- 47 Linewidth roughness in nanowire-mask-based graphene nanoribbons. *Applied Physics Letters*, **2011**, 98, 243118 3.4 13
- 46 Structure modelling of Γ and Γ coincident boundaries in CVD diamond thin films. *Journal of Electron Microscopy*, **1999**, 48, 245-251 13
- 45 Controlling Electrochemical Lithiation/Delithiation Reaction Paths for Long-cycle Life Nanochain-structured FeS₂ Electrodes. *Electrochimica Acta*, **2016**, 211, 671-678 6.7 13
- 44 Unraveling Shuttle Effect and Suppression Strategy in Lithium/Sulfur Cells by In Situ/Operando X-ray Absorption Spectroscopic Characterization. *Energy and Environmental Materials*, **2021**, 4, 222-228 13 13
- 43 Commercial-Level Energy Storage via Free-Standing Stacking Electrodes. *Matter*, **2019**, 1, 1694-1709 12.7 12
- 42 Progress of Lithium/Sulfur Batteries Based on Chemically Modified Carbon. *Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica*, **2017**, 33, 165-182 3.8 11
- 41 SWCNT growth on Al/Fe/Mo investigated by in situ mass spectroscopy. *Nanotechnology*, **2007**, 18, 185709 3.4 11
- 40 High sensitivity and nonlinearity of carbon nanotube charge-based sensors. *Journal of Applied Physics*, **2006**, 99, 084301 2.5 11
- 39 Dependence of Elastic Properties on Morphology in Single-Wall Carbon Nanotubes. *Advanced Materials*, **1999**, 11, 931-934 24 11
- 38 Prelithiation of Nanostructured Sulfur Cathode by an "On-Sheet" Solid-State Reaction. *Small*, **2016**, 12, 4966-4972 11 11
- 37 Boosting electrocatalytic oxygen evolution using ultrathin carbon protected iron-cobalt carbonate hydroxide nanoneedle arrays. *Journal of Power Sources*, **2020**, 450, 227639 8.9 10
- 36 Recent advances in research on anodes for safe and efficient lithium-metal batteries. *Nanoscale*, **2020**, 12, 15528-15559 7.7 9

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