

Yuegang Zhang

List of Publications by Year in Descending Order

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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	A facile in situ Mg surface chemistry strategy for conditioning-free Mg[AlCl ₄] ₂ electrolytes. <i>Electrochimica Acta</i> , 2022 , 414, 140213	6.7	1
195	Identifying Water Oxidation Mechanisms at Pure and Titanium-Doped Hematite-Based Photoanodes with Spectroelectrochemistry.. <i>Small Methods</i> , 2021 , 5, e2100976	12.8	1
194	Infrared study of the multiband low-energy excitations of the topological antiferromagnet MnBi ₂ Te ₄ . <i>Physical Review B</i> , 2021 , 103,	3.3	4
193	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
192	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	13	13
191	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
190	Strong adsorption, catalysis and lithiophilic modulation of carbon nitride for lithium/sulfur battery. <i>Nanotechnology</i> , 2021 , 32, 192002	3.4	3
189	Mechanistic Investigation of Polymer-Based All-Solid-State Lithium/Sulfur Battery. <i>Advanced Functional Materials</i> , 2021 , 31, 2104863	15.6	5
188	Reconfigurable Tunneling Transistors Heterostructured by an Individual Carbon Nanotube and MoS ₂ . <i>Nano Letters</i> , 2021 , 21, 6843-6850	11.5	4
187	Reversible function switching of Ag catalyst in Mg/S battery with chloride-containing electrolyte. <i>Energy Storage Materials</i> , 2021 , 42, 513-516	19.4	2
186	Flexible Electrocatalytic Nanofiber Membrane Reactor for Lithium/Sulfur Conversion Chemistry. <i>Advanced Functional Materials</i> , 2020 , 30, 1910533	15.6	24
185	A stretchable, asymmetric, coaxial fiber-shaped supercapacitor for wearable electronics. <i>Nano Research</i> , 2020 , 13, 1686-1692	10	26
184	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
183	Recent advances in research on anodes for safe and efficient lithium-metal batteries. <i>Nanoscale</i> , 2020 , 12, 15528-15559	7.7	9
182	A non-nucleophilic gel polymer magnesium electrolyte compatible with sulfur cathode. <i>Nano Research</i> , 2020 , 13, 2749-2754	10	13
181	Multi-Step Phase Transitions of Mn O During Galvanostatic Lithiation: An In Situ Transmission Electron Microscopic Investigation. <i>Small</i> , 2020 , 16, e1906499	11	3
180	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	9.5	14

179	Solubility-Dependent Protective Effects of Binary Alloys for Lithium Anode. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2278-2284	6.1	6
178	Single atomic cobalt catalyst significantly accelerates lithium ion diffusion in high mass loading Li2S cathode. <i>Energy Storage Materials</i> , 2020 , 28, 375-382	19.4	42
177	High-performance Oxygen Evolution Catalyst Enabled by Interfacial Effect between CeO2 and FeNi Metal-organic Framework. <i>Acta Chimica Sinica</i> , 2020 , 78, 355	3.3	4
176	Antiferromagnetic topological insulator MnBiTe: synthesis and magnetic properties. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 556-563	3.6	38
175	High energy density lithium metal batteries enabled by a porous graphene/MgF2 framework. <i>Energy Storage Materials</i> , 2020 , 26, 73-82	19.4	42
174	Boosting electrocatalytic oxygen evolution using ultrathin carbon protected iron/cobalt carbonate hydroxide nanoneedle arrays. <i>Journal of Power Sources</i> , 2020 , 450, 227639	8.9	10
173	Extending Cycle Life of Mg/S Battery by Activation of Mg Anode/Electrolyte Interface through an LiCl-Assisted MgCl2 Solubilization Mechanism. <i>Advanced Functional Materials</i> , 2020 , 30, 1909370	15.6	26
172	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	13	15
171	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
170	Single-Atomic Catalysts Embedded on Nanocarbon Supports for High Energy Density Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2020 , 13, 3404-3411	8.3	19
169	Commercial-Level Energy Storage via Free-Standing Stacking Electrodes. <i>Matter</i> , 2019 , 1, 1694-1709	12.7	12
168	Freestanding Carbon Nanotube Film for Flexible Straplike Lithium/Sulfur Batteries. <i>Chemistry - A European Journal</i> , 2019 , 25, 3775-3780	4.8	16
167	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
166	All-solid-state sponge-like squeezable zinc-air battery. <i>Energy Storage Materials</i> , 2019 , 23, 375-382	19.4	32
165	Doped Graphene for Electrochemical Energy Storage Systems 2019 , 511-612		1
164	High areal capacity flexible sulfur cathode based on multi-functionalized super-aligned carbon nanotubes. <i>Nano Research</i> , 2019 , 12, 1105-1113	10	25
163	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
162	Graphene edge-enhanced anchoring of the well-exposed cobalt clusters via strong chemical bonding for accelerating the oxygen reduction reaction. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2859-2866	5.8	5

161	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
160	Coupling Niobia Nanorods with a Multicomponent Carbon Network for High Power Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44196-44203	9.5	8
159	Single-atom catalyst boosts electrochemical conversion reactions in batteries. <i>Energy Storage Materials</i> , 2019 , 18, 246-252	19.4	121
158	Improving a Mg/S Battery with YCl Additive and Magnesium Polysulfide. <i>Advanced Science</i> , 2019 , 6, 1800936	9.6	33
157	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
156	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
155	Stretchable fiber-shaped lithium metal anode. <i>Energy Storage Materials</i> , 2019 , 22, 179-184	19.4	43
154	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	9.5	22
153	All-Solid-State Fiber Supercapacitors with Ultrahigh Volumetric Energy Density and Outstanding Flexibility. <i>Advanced Energy Materials</i> , 2019 , 9, 1802753	21.8	140
152	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
151	Lithium nitrate: A double-edged sword in the rechargeable lithium-sulfur cell. <i>Energy Storage Materials</i> , 2019 , 16, 498-504	19.4	25
150	A non-nucleophilic mono-Mg ²⁺ electrolyte for rechargeable Mg/S battery. <i>Energy Storage Materials</i> , 2018 , 14, 253-257	19.4	30
149	In Situ Electrochemically Derived Amorphous-Li S for High Performance Li S/Graphite Full Cell. <i>Small</i> , 2018 , 14, e1703871	11	18
148	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
147	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
146	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
145	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
144	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

143	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
142	Reducing lithium deposition overpotential with silver nanocrystals anchored on graphene aerogel. <i>Nanoscale</i> , 2018 , 10, 16562-16567	7.7	32
141	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
140	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
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	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
137	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
136	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
135	Wrapping Aligned Carbon Nanotube Composite Sheets around Vanadium Nitride Nanowire Arrays for Asymmetric Coaxial Fiber-Shaped Supercapacitors with Ultrahigh Energy Density. <i>Nano Letters</i> , 2017 , 17, 2719-2726	11.5	233
134	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
133	Temperature-Dependent Electron-Electron Interaction in Graphene on SrTiO ₃ . <i>Nano Letters</i> , 2017 , 17, 5914-5918	11.5	15
132	Folded-up thin carbon nanosheets grown on CuO cubes for improving photocatalytic activity. <i>Nanoscale</i> , 2017 , 9, 12348-12352	7.7	14
131	Robust electrical Highway network for high mass loading sulfur cathode. <i>Nano Energy</i> , 2017 , 40, 390-398	17.1	52
130	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
129	Constructing Ultrahigh-Capacity Zinc-Nickel-Cobalt Oxide@Ni(OH) ₂ Core-Shell Nanowire Arrays for High-Performance Coaxial Fiber-Shaped Asymmetric Supercapacitors. <i>Nano Letters</i> , 2017 , 17, 7552-7560	11.5	196
128	Stretchable fiber-shaped asymmetric supercapacitors with ultrahigh energy density. <i>Nano Energy</i> , 2017 , 39, 219-228	17.1	158
127	Progress of Lithium/Sulfur Batteries Based on Chemically Modified Carbon. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2017 , 33, 165-182	3.8	11
126	Preparation of Three-dimensional Nitrogen-doped Carbon Nanoribbon and Application in Lithium/Sulfur Batteries. <i>Acta Chimica Sinica</i> , 2017 , 75, 225	3.3	3

125	Intrinsic factors attenuate the performance of anhydride organic cathode materials of lithium battery. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 773, 22-26	4.1	8
124	Carbon Nitride Supramolecular Hybrid Material Enabled High-Efficiency Photocatalytic Water Treatments. <i>Nano Letters</i> , 2016 , 16, 6568-6575	11.5	83
123	Efficient solar-driven water splitting by nanocone BiVO ₄ -perovskite tandem cells. <i>Science Advances</i> , 2016 , 2, e1501764	14.3	281
122	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
121	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
120	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
119	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
118	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
117	Chemical routes toward long-lasting lithium/sulfur cells. <i>Nano Research</i> , 2016 , 9, 94-116	10	101
116	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
115	Selenium-Doped Black Phosphorus for High-Responsivity 2D Photodetectors. <i>Small</i> , 2016 , 12, 5000-5007	11	132
114	Prelithiation of Nanostructured Sulfur Cathode by an "On-Sheet" Solid-State Reaction. <i>Small</i> , 2016 , 12, 4966-4972	11	11
113	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
112	Impact of size on energy storage performance of graphene based supercapacitor electrode. <i>Electrochimica Acta</i> , 2016 , 219, 463-469	6.7	28
111	Controlling Electrochemical Lithiation/Delithiation Reaction Paths for Long-cycle Life Nanochain-structured FeS ₂ Electrodes. <i>Electrochimica Acta</i> , 2016 , 211, 671-678	6.7	13
110	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
109	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
108	A Graphene-like Oxygenated Carbon Nitride Material for Improved Cycle-Life Lithium/Sulfur Batteries. <i>Nano Letters</i> , 2015 , 15, 5137-42	11.5	314

107	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
106	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
105	Surface-enhanced Raman scattering from AgNP-graphene-AgNP sandwiched nanostructures. <i>Nanoscale</i> , 2015 , 7, 17529-37	7.7	33
104	Tuning plasmonic and chemical enhancement for SERS detection on graphene-based Au hybrids. <i>Nanoscale</i> , 2015 , 7, 20188-96	7.7	65
103	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
102	Effects of cell construction parameters on the performance of lithium/sulfur cells. <i>AIChE Journal</i> , 2015 , 61, 2749-2756	3.6	6
101	Highly Nitridated Graphene/Li ₂ S Cathodes with Stable Modulated Cycles. <i>Advanced Energy Materials</i> , 2015 , 5, 1501369	21.8	87
100	Fabrication of Nb ₂ O ₅ nanosheets for high-rate lithium ion storage applications. <i>Scientific Reports</i> , 2015 , 5, 8326	4.9	105
99	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	8.6	96
98	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
97	Wafer-scale integration of graphene-based electronic, optoelectronic and electroacoustic devices. <i>Scientific Reports</i> , 2014 , 4, 3598	4.9	84
96	Three-dimensional metal/oxide nanocone arrays for high-performance electrochemical pseudocapacitors. <i>Nanoscale</i> , 2014 , 6, 3626-31	7.7	50
95	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
94	Enhanced Charge Collection for Splitting of Water Enabled by an Engineered Three-Dimensional Nanospire Array. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22465-22472	3.8	13
93	High-rate, ultralong cycle-life lithium/sulfur batteries enabled by nitrogen-doped graphene. <i>Nano Letters</i> , 2014 , 14, 4821-7	11.5	615
92	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
91	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
90	Efficient photoelectrochemical water splitting with ultrathin films of hematite on three-dimensional nanophotonic structures. <i>Nano Letters</i> , 2014 , 14, 2123-9	11.5	277

89	Large-scale fabrication of graphene-based electronic and MEMS devices 2014 ,		1
88	. <i>Proceedings of the IEEE</i> , 2013 , 101, 1670-1688	14.3	25
87	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
86	Supramolecular polymers with tunable topologies via hierarchical coordination-driven self-assembly and hydrogen bonding interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15585-90	11.5	210
85	Scalable and direct growth of graphene micro ribbons on dielectric substrates. <i>Scientific Reports</i> , 2013 , 3, 1348	4.9	29
84	Laser directed lithography of asymmetric graphene ribbons on a polydimethylsiloxane trench structure. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6825-30	3.6	6
83	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
82	Lithium/sulfur batteries with high specific energy: old challenges and new opportunities. <i>Nanoscale</i> , 2013 , 5, 2186-204	7.7	429
81	Nanowire-based resistive switching memories: devices, operation and scaling. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 074006	3	43
80	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
79	Electronic transport properties of zigzag carbon- and boron-nitride-nanotube heterostructures. <i>Solid State Communications</i> , 2012 , 152, 1061-1066	1.6	24
78	Nanostructured LiB-C composites as cathode material for high-energy lithium/sulfur batteries. <i>Nano Letters</i> , 2012 , 12, 6474-9	11.5	258
77	Graphene/Si multilayer structure anodes for advanced half and full lithium-ion cells. <i>Nano Energy</i> , 2012 , 1, 164-171	17.1	134
76	Fermi velocity engineering in graphene by substrate modification. <i>Scientific Reports</i> , 2012 , 2,	4.9	269
75	Direct growth of graphene nanoribbons for large-scale device fabrication. <i>Nano Letters</i> , 2012 , 12, 6175-9	11.5	36
74	Hard HfB ₂ tip-coatings for ultrahigh density probe-based storage. <i>Applied Physics Letters</i> , 2012 , 101, 091909	3.4	6
73	SnS ₂ nanoparticle loaded graphene nanocomposites for superior energy storage. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 6981-6	3.6	67
72	Electronic structure and chemical bonding of a graphene oxide-sulfur nanocomposite for use in superior performance lithium-sulfur cells. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 13670-5	3.6	282

71	Electronic structure study of ordering and interfacial interaction in graphene/Cu composites. <i>Carbon</i> , 2012 , 50, 5316-5322	10.4	29
70	Electrode/oxide interface engineering by inserting single-layer graphene: Application for HfOx-based resistive random access memory 2012 ,		7
69	Multilayer nanoassembly of Sn-nanopillar arrays sandwiched between graphene layers for high-capacity lithium storage. <i>Energy and Environmental Science</i> , 2011 , 4, 3611	35.4	204
68	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
67	Fe ₃ O ₄ nanoparticle-integrated graphene sheets for high-performance half and full lithium ion cells. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7170-7	3.6	229
66	Porous carbon nanofiber-sulfur composite electrodes for lithium/sulfur cells. <i>Energy and Environmental Science</i> , 2011 , 4, 5053	35.4	527
65	Resistive-switching crossbar memory based on Ni-NiO core-shell nanowires. <i>Small</i> , 2011 , 7, 2899-905	11	66
64	Edge effect on resistance scaling rules in graphene nanostructures. <i>Nano Letters</i> , 2011 , 11, 1082-6	11.5	34
63	Linewidth roughness in nanowire-mask-based graphene nanoribbons. <i>Applied Physics Letters</i> , 2011 , 98, 243118	3.4	13
62	Enhanced conductance fluctuation by quantum confinement effect in graphene nanoribbons. <i>Nano Letters</i> , 2010 , 10, 4590-4	11.5	26
61	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
60	Low-noise submicron channel graphene nanoribbons. <i>Applied Physics Letters</i> , 2010 , 97, 073107	3.4	17
59	Direct chemical vapor deposition of graphene on dielectric surfaces. <i>Nano Letters</i> , 2010 , 10, 1542-8	11.5	387
58	Metal-catalyzed crystallization of amorphous carbon to graphene. <i>Applied Physics Letters</i> , 2010 , 96, 063110	3.4	208
57	Effect of spatial charge inhomogeneity on 1/f noise behavior in graphene. <i>Nano Letters</i> , 2010 , 10, 3312-7	11.5	75
56	Fully inverted single-digit nanometer domains in ferroelectric films. <i>Applied Physics Letters</i> , 2010 , 96, 023103	3.4	15
55	Electrostatic force assisted exfoliation of prepatterned few-layer graphenes into device sites. <i>Nano Letters</i> , 2009 , 9, 467-72	11.5	96
54	Carbon nanofiber supercapacitors with large areal capacitances. <i>Applied Physics Letters</i> , 2009 , 95, 243109	3.4	114

53	Gate-variable optical transitions in graphene. <i>Science</i> , 2008 , 320, 206-9	33.3	1215
52	Nanopencil as a wear-tolerant probe for ultrahigh density data storage. <i>Applied Physics Letters</i> , 2008 , 93, 103112	3.4	20
51	Measurement of scattering rate and minimum conductivity in graphene. <i>Physical Review Letters</i> , 2007 , 99, 246803	7.4	803
50	Room-temperature quantum Hall effect in graphene. <i>Science</i> , 2007 , 315, 1379	33.3	2342
49	SWCNT growth on Al/Fe/Mo investigated by in situ mass spectroscopy. <i>Nanotechnology</i> , 2007 , 18, 185709	3.4	11
48	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
47	Evidence for trap-limited transport in the subthreshold conduction regime of chalcogenide glasses. <i>Applied Physics Letters</i> , 2007 , 90, 192102	3.4	126
46	CARBON NANOTUBE BASED NONVOLATILE MEMORY DEVICES. <i>International Journal of High Speed Electronics and Systems</i> , 2006 , 16, 959-975	0.5	4
45	High sensitivity and nonlinearity of carbon nanotube charge-based sensors. <i>Journal of Applied Physics</i> , 2006 , 99, 084301	2.5	11
44	Controlled precipitation of solubilized carbon nanotubes by delamination of DNA. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 54-7	3.4	48
43	Carbon nanotube-based nonvolatile memory with charge storage in metal nanocrystals. <i>Applied Physics Letters</i> , 2005 , 87, 043108	3.4	40
42	In situ Raman and fluorescence monitoring of optically trapped single-walled carbon nanotubes 2004 , 5593, 73		1
41	Electric field effect in atomically thin carbon films. <i>Science</i> , 2004 , 306, 666-9	33.3	47045
40	Optical Trapping of Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2004 , 4, 1415-1419	11.5	100
39	Composite Nanowires 2003 , 257-268		
38	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
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