

Han Hu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4194107/han-hu-publications-by-year.pdf>

Version: 2024-04-16

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

17,667
citations

67
h-index

130
g-index

214
ext. papers

20,463
ext. citations

12.3
avg, IF

7.28
L-index

#	Paper	IF	Citations
196	Recent advances in the synthesis of nanoscale hierarchically porous metal-organic frameworks. <i>Nano Materials Science</i> , 2022 ,	10.2	2
195	Applications of nanogenerators for biomedical engineering and healthcare systems. <i>Information Materials</i> , 2022 , 4,	23.1	13
194	Templating synthesis of porous carbons for energy-related applications: A review. <i>New Carbon Materials</i> , 2022 , 37, 25-45	4.4	2
193	Polycyclic Aromatic Hydrocarbons as a New Class of Promising Cathode Materials for Aluminum-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 61, e202114681	16.4	7
192	Flexible electrodes with high areal capacity based on electrospun fiber mats. <i>Nanoscale</i> , 2021 , 13, 18391-18402	17.1	9
191	The Mechanism of Piezocatalysis: Energy Band Theory or Screening Charge Effect?. <i>Angewandte Chemie - International Edition</i> , 2021 , 61, e202110429	16.4	12
190	Fe/Fe ₃ C Boosts H ₂ O ₂ Utilization for Methane Conversion Overwhelming O ₂ Generation. <i>Angewandte Chemie</i> , 2021 , 133, 8971-8977	3.6	7
189	Three-dimensional printing of high-mass loading electrodes for energy storage applications. <i>Information Materials</i> , 2021 , 3, 631-647	23.1	12
188	Fe/Fe C Boosts H O Utilization for Methane Conversion Overwhelming O Generation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8889-8895	16.4	21
187	Design and Fabrication of Hierarchical NiCoP-MOF Heterostructure with Enhanced Pseudocapacitive Properties. <i>Small</i> , 2021 , 17, e2100353	11	31
186	Decorating ZIF-67-derived cobalt-nitrogen doped carbon nanocapsules on 3D carbon frameworks for efficient oxygen reduction and oxygen evolution. <i>Carbon</i> , 2021 , 177, 344-356	10.4	23
185	All-Climate Aluminum-Ion Batteries Based on Binder-Free MOF-Derived FeS@C/CNT Cathode. <i>Nano-Micro Letters</i> , 2021 , 13, 159	19.5	6
184	Toward commercial-level mass-loading electrodes for supercapacitors: opportunities, challenges and perspectives. <i>Energy and Environmental Science</i> , 2021 , 14, 576-601	35.4	56
183	High-performance aluminum-polyaniline battery based on the interaction between aluminum ion and -NH groups. <i>Science China Materials</i> , 2021 , 64, 318-328	7.1	12
182	Non-corrosive and low-cost synthesis of hierarchically porous carbon frameworks for high-performance lithium-ion capacitors. <i>Carbon</i> , 2021 , 173, 646-654	10.4	12
181	Reinforced atomically dispersed FeNC catalysts derived from petroleum asphalt for oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2021 , 587, 810-819	9.3	7
180	High-performance metal-free batteries enabled by a bifunctional dendrite-free LiNa alloy anode. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 538-545	13	5

179	Boosting the Pseudocapacitive and High Mass-Loaded Lithium/Sodium Storage through Bonding Polyoxometalate Nanoparticles on MXene Nanosheets. <i>Advanced Functional Materials</i> , 2021 , 31, 2007636	15.6	19
178	Energy Accumulation Enabling Fast Synthesis of Intercalated Graphite and Operando Decoupling for Lithium Storage. <i>Advanced Functional Materials</i> , 2021 , 31, 2009801	15.6	2
177	Innentitelbild: Fe/Fe ₃ C Boosts H ₂ O ₂ Utilization for Methane Conversion Overwhelming O ₂ Generation (Angew. Chem. 16/2021). <i>Angewandte Chemie</i> , 2021 , 133, 8642-8642	3.6	
176	Carbon-enabled microwave chemistry: From interaction mechanisms to nanomaterial manufacturing. <i>Nano Energy</i> , 2021 , 85, 106027	17.1	17
175	Water-Soluble Salt Template-Assisted Anchor of Hollow FeS ₂ Nanoparticle Inside 3D Carbon Skeleton to Achieve Fast Potassium-Ion Storage. <i>Advanced Energy Materials</i> , 2021 , 11, 2101343	21.8	12
174	Reacquainting the Electrochemical Conversion Mechanism of FeS Sodium-Ion Batteries by Operando Magnetometry. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12800-12808	16.4	28
173	Precious potential regulation of carbon cathode enabling high-performance lithium-ion capacitors. <i>Carbon</i> , 2021 , 180, 110-117	10.4	6
172	Unraveling the Synergy of Chemical Hydroxylation and the Physical Heterointerface upon Improving the Hydrogen Evolution Kinetics. <i>ACS Nano</i> , 2021 , 15, 15017-15026	16.7	14
171	Direct Conversion of CO ₂ to Ethanol Boosted by Intimacy-Sensitive Multifunctional Catalysts. <i>ACS Catalysis</i> , 2021 , 11, 11742-11753	13.1	8
170	Carbon dots-oriented synthesis of fungus-like CoP microspheres as a bifunctional electrocatalyst for efficient overall water splitting. <i>Carbon</i> , 2021 , 182, 327-334	10.4	9
169	Robust and Fast Lithium Storage Enabled by Polypyrrole-Coated Nitrogen and Phosphorus Co-Doped Hollow Carbon Nanospheres for Lithium-Ion Capacitors. <i>Frontiers in Chemistry</i> , 2021 , 9, 760473	5	0
168	Fe, N co-doped amorphous carbon as efficient electrode materials for fast and stable Na/K-storage. <i>Electrochimica Acta</i> , 2021 , 396, 139265	6.7	4
167	Three-dimensional hierarchical Na ₃ Fe ₂ (PO ₄) ₃ /C with superior and fast sodium uptake for efficient hybrid capacitive deionization. <i>Desalination</i> , 2021 , 520, 115341	10.3	10
166	A temperature-dependent phosphorus doping on TiCT MXene for enhanced supercapacitance. <i>Journal of Colloid and Interface Science</i> , 2021 , 604, 239-247	9.3	4
165	SnO ₂ nanoflower arrays on an amorphous buffer layer as binder-free electrodes for flexible lithium-ion batteries. <i>Applied Surface Science</i> , 2020 , 527, 146910	6.7	23
164	Ohmic contacts of monolayer Ti ₂ O field-effect transistors. <i>Journal of Materials Science</i> , 2020 , 55, 11439-11450	1.4	2
163	Heavy oil-derived carbon for energy storage applications. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7066-7082	1.3	29
162	Laser Irradiation of Electrode Materials for Energy Storage and Conversion. <i>Matter</i> , 2020 , 3, 95-126	12.7	44

161	Fabrication of Porous Carbon Nanosheets with the Engineered Graphitic Structure for Electrochemical Supercapacitors. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 13623-13630	3.9	4
160	Operando Revealing Dynamic Reconstruction of NiCo Carbonate Hydroxide for High-Rate Energy Storage. <i>Joule</i> , 2020 , 4, 673-687	27.8	48
159	DBD plasma-tuned functionalization of edge-enriched graphene nanoribbons for high performance supercapacitors. <i>Electrochimica Acta</i> , 2020 , 337, 135741	6.7	6
158	Intrinsic Defect-Rich Hierarchically Porous Carbon Architectures Enabling Enhanced Capture and Catalytic Conversion of Polysulfides. <i>ACS Nano</i> , 2020 , 14, 6222-6231	16.7	41
157	Lattice distortion induced internal electric field in TiO photoelectrode for efficient charge separation and transfer. <i>Nature Communications</i> , 2020 , 11, 2129	17.4	41
156	Layered double hydroxides derived NiCo-sulfide as a cathode material for aluminum ion batteries. <i>Electrochimica Acta</i> , 2020 , 344, 136174	6.7	15
155	Self-supported transition metal oxide electrodes for electrochemical energy storage. <i>Tungsten</i> , 2020 , 2, 337-361	4.6	22
154	Boosting the performance of hybrid supercapacitors through redox electrolyte-mediated capacity balancing. <i>Nano Energy</i> , 2020 , 68, 104226	17.1	33
153	Promoting the electroreduction of CO ₂ with oxygen vacancies on a plasma-activated SnO _x /carbon foam monolithic electrode. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1779-1786	13	28
152	Small graphite nanoflakes as an advanced cathode material for aluminum ion batteries. <i>Chemical Communications</i> , 2020 , 56, 1593-1596	5.8	13
151	A non-toxic triboelectric nanogenerator for baby care applications. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22745-22753	13	13
150	Engineering Kinetics-Favorable Carbon Sheets with an Intrinsic Network for a Superior Supercapacitor Containing a Dual Cross-linked Hydrogel Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 53164-53173	9.5	11
149	Imine-functionalized polysiloxanes for supramolecular elastomers with tunable mechanical properties. <i>Polymer Chemistry</i> , 2020 , 11, 7721-7728	4.9	8
148	Controllable Substitution of S Radicals on Triazine Covalent Framework to Expedite Degradation of Polysulfides. <i>Small</i> , 2020 , 16, e2004631	11	6
147	Sub-5-nm Monolayer Silicane Transistor: A First-Principles Quantum Transport Simulation. <i>Physical Review Applied</i> , 2020 , 14,	4.3	12
146	Lithiation-Induced Vacancy Engineering of Co ₃ O ₄ with Improved Faradic Reactivity for High-Performance Supercapacitor. <i>Advanced Functional Materials</i> , 2020 , 30, 2004172	15.6	63
145	Hydrogen of Polythiophene Induced Aluminum Ion Storage for High-Performance Al-Polythiophene Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46065-46072	9.5	11
144	Regulation of the cathode for amphi-charge storage in a redox electrolyte for high-energy lithium-ion capacitors. <i>Chemical Communications</i> , 2020 , 56, 12777-12780	5.8	4

143	Self-Supported Amorphous SnO ₂ /TiO ₂ Nanocomposite Films with Improved Electrochemical Performance for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A3072-A3078	3.9	34
142	Multilevel Coupled Hybrids Made of Porous Cobalt Oxides and Graphene for High-Performance Lithium Storage. <i>Chemistry - A European Journal</i> , 2019 , 25, 5527-5533	4.8	5
141	Polyethylenimine Expanded Graphite Oxide Enables High Sulfur Loading and Long-Term Stability of Lithium-Sulfur Batteries. <i>Small</i> , 2019 , 15, e1804578	11	22
140	A Universal Converse Voltage Process for Triggering Transition Metal Hybrids In Situ Phase Restruction toward Ultrahigh-Rate Supercapacitors. <i>Advanced Materials</i> , 2019 , 31, e1901241	24	48
139	Green and scalable synthesis of porous carbon nanosheet-assembled hierarchical architectures for robust capacitive energy harvesting. <i>Carbon</i> , 2019 , 152, 537-544	10.4	26
138	Polyethyleneimine-Mediated Fabrication of Two-Dimensional Cobalt Sulfide/Graphene Hybrid Nanosheets for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26235-26242	9.5	25
137	Microwave-Assisted Ultrafast Synthesis of Molybdenum Carbide Nanoparticles Grown on Carbon Matrix for Efficient Hydrogen Evolution Reaction. <i>Small Methods</i> , 2019 , 3, 1900259	12.8	30
136	A Portable and Efficient Solar-Rechargeable Battery with Ultrafast Photo-Charge/Discharge Rate. <i>Advanced Energy Materials</i> , 2019 , 9, 1900872	21.8	35
135	Unlocking the potential of commercial carbon nanofibers as free-standing positive electrodes for flexible aluminum ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15123-15130	13	23
134	A Phase Transformation-Resistant Electrode Enabled by a MnO ₂ -Confined Effect for Enhanced Energy Storage. <i>Advanced Functional Materials</i> , 2019 , 29, 1901342	15.6	12
133	Design and fabrication of carbon dots for energy conversion and storage. <i>Chemical Society Reviews</i> , 2019 , 48, 2315-2337	58.5	363
132	Covalent bonds-integrated graphene foam with superb electromechanical properties as elastic conductor and compressive sensor. <i>Carbon</i> , 2019 , 147, 206-213	10.4	23
131	Synthesis of Biomass-Derived Nitrogen-Doped Porous Carbon Nanosheets for High-Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8405-8412	8.3	106
130	Highly stable lithium-sulfur batteries based on p-n heterojunctions embedded on hollow sheath carbon propelling polysulfides conversion. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9230-9240	13	43
129	Graphene oxide-induced synthesis of button-shaped amorphous Fe ₂ O ₃ /rGO/CNFs films as flexible anode for high-performance lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2019 , 369, 215-222	14.7	40
128	Robust NiCoP/CoP Heterostructures for Highly Efficient Hydrogen Evolution Electrocatalysis in Alkaline Solution. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15528-15536	9.5	77
127	Manipulation of interlayer spacing and surface charge of carbon nanosheets for robust lithium/sodium storage. <i>Carbon</i> , 2019 , 153, 372-380	10.4	24
126	Sandwich-Like Ultrathin TiS ₂ Nanosheets Confined within N, S Codoped Porous Carbon as an Effective Polysulfide Promoter in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1901872	21.8	119

125	Sliding non-contact inductive nanogenerator. <i>Nano Energy</i> , 2019 , 63, 103878	17.1	14
124	Reexamination of the Schottky Barrier Heights in Monolayer MoS ₂ Field-Effect Transistors. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4717-4726	5.6	18
123	Sulfur bridges between Co ₉ S ₈ nanoparticles and carbon nanotubes enabling robust oxygen electrocatalysis. <i>Carbon</i> , 2019 , 144, 259-268	10.4	33
122	Designed synthesis of cobalt nanoparticles embedded carbon nanocages as bifunctional electrocatalysts for oxygen evolution and reduction. <i>Carbon</i> , 2019 , 144, 492-499	10.4	25
121	Theoretical and Experimental Insights into the Effects of Oxygen-Containing Species within CNTs toward Triiodide Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7527-7534	8.3	6
120	Accelerating polysulfide redox conversion on bifunctional electrocatalytic electrode for stable Li-S batteries. <i>Energy Storage Materials</i> , 2019 , 20, 98-107	19.4	50
119	Nitrogen-doped carbon nanotubes decorated with cobalt nanoparticles derived from zeolitic imidazolate framework-67 for highly efficient oxygen reduction reaction electrocatalysis. <i>Carbon</i> , 2018 , 132, 580-588	10.4	52
118	Scrutinizing Defects and Defect Density of Selenium-Doped Graphene for High-Efficiency Triiodide Reduction in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4682-4686	16.4	101
117	Scrutinizing Defects and Defect Density of Selenium-Doped Graphene for High-Efficiency Triiodide Reduction in Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2018 , 130, 4772-4776	3.6	20
116	3D self-assembly synthesis of hierarchical porous carbon from petroleum asphalt for supercapacitors. <i>Carbon</i> , 2018 , 134, 345-353	10.4	78
115	Metal-Organic Frameworks Mediated Synthesis of One-Dimensional Molybdenum-Based/Carbon Composites for Enhanced Lithium Storage. <i>ACS Nano</i> , 2018 , 12, 1990-2000	16.7	166
114	Ultrahigh Rate and Long-Life Sodium-Ion Batteries Enabled by Engineered Surface and Near-Surface Reactions. <i>Advanced Materials</i> , 2018 , 30, 1702486	24	130
113	MXene-Based Electrode with Enhanced Pseudocapacitance and Volumetric Capacity for Power-Type and Ultra-Long Life Lithium Storage. <i>ACS Nano</i> , 2018 , 12, 3928-3937	16.7	120
112	Nanopore-confined g-C ₃ N ₄ nanodots in N, S co-doped hollow porous carbon with boosted capacity for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7133-7141	13	67
111	An effective graphene confined strategy to construct active edge sites-enriched nanosheets with enhanced oxygen evolution. <i>Carbon</i> , 2018 , 126, 437-442	10.4	32
110	An amorphous tin-based nanohybrid for ultra-stable sodium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18920-18927	13	16
109	Molecular-level anchoring of polymer cathodes on carbon nanotubes towards rapid-rate and long-cycle sodium-ion storage. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 1805-1810	7.8	18
108	Template-free synthesis of interconnected carbon nanosheets via cross-linking coupled with annealing for high-efficiency triiodide reduction. <i>Green Chemistry</i> , 2018 , 20, 250-254	10	6

107	Nitrogen-doped porous carbon with well-balanced charge conduction and electrocatalytic activity for dye-sensitized solar cells. <i>Carbon</i> , 2018 , 128, 201-204	10.4	16
106	A Binder-Free and Free-Standing Cobalt Sulfide@Carbon Nanotube Cathode Material for Aluminum-Ion Batteries. <i>Advanced Materials</i> , 2018 , 30, 1703824	24	199
105	An Integrated Strategy towards Enhanced Performance of the Lithium-Sulfur Battery and its Fading Mechanism. <i>Chemistry - A European Journal</i> , 2018 , 24, 18544-18550	4.8	11
104	Complex Hollow Nanostructures: Synthesis and Energy-Related Applications. <i>Advanced Materials</i> , 2017 , 29, 1604563	24	529
103	General synthesis of zeolitic imidazolate framework-derived planar-N-doped porous carbon nanosheets for efficient oxygen reduction. <i>Energy Storage Materials</i> , 2017 , 7, 181-188	19.4	22
102	Ultrafine MoO ₂ -Carbon Microstructures Enable Ultralong-Life Power-Type Sodium Ion Storage by Enhanced Pseudocapacitance. <i>Advanced Energy Materials</i> , 2017 , 7, 1602880	21.8	237
101	Flexible Paper-like Free-Standing Electrodes by Anchoring Ultrafine SnS Nanocrystals on Graphene Nanoribbons for High-Performance Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15484-15491	9.5	84
100	Stabilizing the MXenes by Carbon Nanoplatin for Developing Hierarchical Nanohybrids with Efficient Lithium Storage and Hydrogen Evolution Capability. <i>Advanced Materials</i> , 2017 , 29, 1607017	24	380
99	Freestanding Flexible Li ₂ S Paper Electrode with High Mass and Capacity Loading for High-Energy LiB Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1700018	21.8	122
98	Supramolecular polymerization-assisted synthesis of nitrogen and sulfur dual-doped porous graphene networks from petroleum coke as efficient metal-free electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11331-11339	13	45
97	Nitrogen-doped tubular/porous carbon channels implanted on graphene frameworks for multiple confinement of sulfur and polysulfides. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10380-10386	13	25
96	Synthesis of layered microporous carbons from coal tar by directing, space-confinement and self-sacrificed template strategy for supercapacitors. <i>Electrochimica Acta</i> , 2017 , 246, 634-642	6.7	42
95	Two-dimensional graphene-like N, Co-codoped carbon nanosheets derived from ZIF-67 polyhedrons for efficient oxygen reduction reactions. <i>Chemical Communications</i> , 2017 , 53, 7840-7843	5.8	58
94	Engineering hollow polyhedrons structured from carbon-coated CoSe ₂ nanospheres bridged by CNTs with boosted sodium storage performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13591-13600 ¹³		160
93	A superhydrophilic Nanoglue For stabilizing metal hydroxides onto carbon materials for high-energy and ultralong-life asymmetric supercapacitors. <i>Energy and Environmental Science</i> , 2017 , 10, 1958-1965	35.4	228
92	A Polymetallic Metal-Organic Framework-Derived Strategy toward Synergistically Multidoped Metal Oxide Electrodes with Ultralong Cycle Life and High Volumetric Capacity. <i>Advanced Functional Materials</i> , 2017 , 27, 1605332	15.6	90
91	Nitrogen-doped hierarchical porous carbon derived from metal-organic aerogel for high performance lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2017 , 26, 1282-1290	12	47
90	Preparation of carbon nanosheets from petroleum asphalt via recyclable molten-salt method for superior lithium and sodium storage. <i>Carbon</i> , 2017 , 122, 344-351	10.4	70

89	A green and template recyclable approach to prepare Fe ₃ O ₄ /porous carbon from petroleum asphalt for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 2612-2618	5.7	44
88	In-situ growth of highly uniform and single crystalline Co ₃ O ₄ nanocubes on graphene for efficient oxygen evolution. <i>Catalysis Communications</i> , 2017 , 88, 81-84	3.2	21
87	Synthesis of 3D Flower-like Nanocomposites of Nitrogen-Doped Carbon Nanosheets Embedded with Hollow Cobalt(II,III) Oxide Nanospheres for Lithium Storage. <i>ChemElectroChem</i> , 2017 , 4, 102-108	4.3	12
86	Interlayer expanded MoS ₂ enabled by edge effect of graphene nanoribbons for high performance lithium and sodium ion batteries. <i>Carbon</i> , 2016 , 109, 461-471	10.4	100
85	A Top-Down Strategy toward 3D Carbon Nanosheet Frameworks Decorated with Hollow Nanostructures for Superior Lithium Storage. <i>Advanced Functional Materials</i> , 2016 , 26, 7590-7598	15.6	168
84	Efficient synthesis of graphene/sulfur nanocomposites with high sulfur content and their application as cathodes for LiS batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16219-16224	13	14
83	Green fabrication of magnetic recoverable graphene/MnFe ₂ O ₄ hybrids for efficient decomposition of methylene blue and the Mn/Fe redox synergetic mechanism. <i>RSC Advances</i> , 2016 , 6, 104549-104555	3.7	38
82	Rational design of metal oxide hollow nanostructures decorated carbon nanosheets for superior lithium storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17718-17725	13	27
81	Double-Shelled Nanocages with Cobalt Hydroxide Inner Shell and Layered Double Hydroxides Outer Shell as High-Efficiency Polysulfide Mediator for Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2016 , 128, 4050-4054	3.6	51
80	Chemically grafting graphene oxide to B,N co-doped graphene via ionic liquid and their superior performance for triiodide reduction. <i>Nano Energy</i> , 2016 , 25, 184-192	17.1	75
79	Graphene-mediated highly-dispersed MoS ₂ nanosheets with enhanced triiodide reduction activity for dye-sensitized solar cells. <i>Carbon</i> , 2016 , 100, 474-483	10.4	88
78	Synthesis of ultrathin hollow carbon shell from petroleum asphalt for high-performance anode material in lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2016 , 286, 632-639	14.7	75
77	Electroactive edge site-enriched nickel-cobalt sulfide into graphene frameworks for high-performance asymmetric supercapacitors. <i>Energy and Environmental Science</i> , 2016 , 9, 1299-1307	35.4	540
76	Dual integration system endowing two-dimensional titanium disulfide with enhanced triiodide reduction performance in dye-sensitized solar cells. <i>Nano Energy</i> , 2016 , 22, 59-69	17.1	59
75	Nitrogen-doped activated carbon derived from prawn shells for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2016 , 190, 1134-1141	6.7	167
74	Multifunctional nitrogen-doped graphene nanoribbon aerogels for superior lithium storage and cell culture. <i>Nanoscale</i> , 2016 , 8, 2159-67	7.7	38
73	Metal-organic-framework-engaged formation of Co nanoparticle-embedded carbon@Co ₉ S ₈ double-shelled nanocages for efficient oxygen reduction. <i>Energy and Environmental Science</i> , 2016 , 9, 107-111	35.4	427
72	Electrochemical and Capacitive Properties of Carbon Dots/Reduced Graphene Oxide Supercapacitors. <i>Nanomaterials</i> , 2016 , 6,	5.4	43

71	Construction of Complex CoS Hollow Structures with Enhanced Electrochemical Properties for Hybrid Supercapacitors. <i>Chem</i> , 2016 , 1, 102-113	16.2	406
70	Unusual Formation of CoSe@carbon Nanoboxes, which have an Inhomogeneous Shell, for Efficient Lithium Storage. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9514-8	16.4	270
69	Mass and Charge Transfer Coenhanced Oxygen Evolution Behaviors in CoFe-Layered Double Hydroxide Assembled on Graphene. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500782	4.6	113
68	Double-Shelled Nanocages with Cobalt Hydroxide Inner Shell and Layered Double Hydroxides Outer Shell as High-Efficiency Polysulfide Mediator for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3982-6	16.4	447
67	Unusual Formation of CoSe@carbon Nanoboxes, which have an Inhomogeneous Shell, for Efficient Lithium Storage. <i>Angewandte Chemie</i> , 2016 , 128, 9666-9670	3.6	31
66	Ultrasound-assisted preparation of electrospun carbon fiber/graphene electrodes for capacitive deionization: Importance and unique role of electrical conductivity. <i>Carbon</i> , 2016 , 103, 311-317	10.4	84
65	Sustainable Synthesis and Assembly of Biomass-Derived B/N Co-Doped Carbon Nanosheets with Ultrahigh Aspect Ratio for High-Performance Supercapacitors. <i>Advanced Functional Materials</i> , 2016 , 26, 111-119	15.6	492
64	Facile one-step synthesis of highly graphitized hierarchical porous carbon nanosheets with large surface area and high capacity for lithium storage. <i>RSC Advances</i> , 2016 , 6, 51146-51152	3.7	2
63	A layered-template-nanospace-confinement strategy for production of corrugated graphene nanosheets from petroleum pitch for supercapacitors. <i>Chemical Engineering Journal</i> , 2016 , 297, 121-127	14.7	142
62	Naturally Dried Graphene Aerogels with Superelasticity and Tunable Poisson's Ratio. <i>Advanced Materials</i> , 2016 , 28, 9223-9230	24	187
61	NiCo-layered double hydroxides vertically assembled on carbon fiber papers as binder-free high-active electrocatalysts for water oxidation. <i>Carbon</i> , 2016 , 110, 1-7	10.4	137
60	Frontispiece: Unusual Formation of CoSe@carbon Nanoboxes, which have an Inhomogeneous Shell, for Efficient Lithium Storage. <i>Angewandte Chemie - International Edition</i> , 2016 , 55,	16.4	3
59	Theoretical design and experimental synthesis of counter electrode for dye-sensitized solar cells: Amino-functionalized graphene. <i>Journal of Energy Chemistry</i> , 2016 , 25, 861-867	12	9
58	Nitrogen and phosphorus dual-doped graphene as a metal-free high-efficiency electrocatalyst for triiodide reduction. <i>Nanoscale</i> , 2016 , 8, 17458-17464	7.7	50
57	Designed Formation of Co ₂ NiCo ₂ Double-Shelled Nanocages with Enhanced Pseudocapacitive and Electrocatalytic Properties. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5590-5	16.4	880
56	Nitrogen-Doped Graphene Nanoribbons with Surface Enriched Active Sites and Enhanced Performance for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1500180	21.8	126
55	Synthesis of metallic Ni-Co/graphene catalysts with enhanced hydrodesulfurization activity via a low-temperature plasma approach. <i>Catalysis Today</i> , 2015 , 256, 203-208	5.3	20
54	Self-Sensing, Ultralight, and Conductive 3D Graphene/Iron Oxide Aerogel Elastomer Deformable in a Magnetic Field. <i>ACS Nano</i> , 2015 , 9, 3969-77	16.7	226

53	Hierarchical tubular structures constructed from ultrathin TiO ₂ (B) nanosheets for highly reversible lithium storage. <i>Energy and Environmental Science</i> , 2015 , 8, 1480-1483	35.4	166
52	Ultrathin MoS ₂ Nanosheets Supported on N-doped Carbon Nanoboxes with Enhanced Lithium Storage and Electrocatalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7395-8	16.4	548
51	Construction of hybrid bowl-like structures by anchoring NiO nanosheets on flat carbon hollow particles with enhanced lithium storage properties. <i>Energy and Environmental Science</i> , 2015 , 8, 1707-1711	35.4	194
50	Formation of Uniform Fe ₃ O ₄ Hollow Spheres Organized by Ultrathin Nanosheets and Their Excellent Lithium Storage Properties. <i>Advanced Materials</i> , 2015 , 27, 4097-101	24	346
49	Three-dimensional ZnMn ₂ O ₄ /porous carbon framework from petroleum asphalt for high performance lithium-ion battery. <i>Electrochimica Acta</i> , 2015 , 180, 164-172	6.7	62
48	Towards efficient electrocatalysts for oxygen reduction by doping cobalt into graphene-supported graphitic carbon nitride. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19657-19661	13	40
47	Compressible graphene aerogel supported CoO nanostructures as a binder-free electrode for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2015 , 5, 8929-8932	3.7	31
46	Ultrathin MoS ₂ Nanosheets Supported on N-doped Carbon Nanoboxes with Enhanced Lithium Storage and Electrocatalytic Properties. <i>Angewandte Chemie</i> , 2015 , 127, 7503-7506	3.6	86
45	Mechanically robust honeycomb graphene aerogel multifunctional polymer composites. <i>Carbon</i> , 2015 , 93, 659-670	10.4	145
44	Highly Stretchable and Ultrasensitive Strain Sensor Based on Reduced Graphene Oxide Microtubes-Elastomer Composite. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27432-9	9.5	159
43	Graphene oxide liquid crystal Pickering emulsions and their assemblies. <i>Carbon</i> , 2015 , 85, 16-23	10.4	38
42	Facile Fabrication of Bicomponent CoO/CoFe ₂ O ₄ -N-Doped Graphene Hybrids with Ultrahigh Lithium Storage Capacity. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 91-97	3.1	24
41	Ultrafast Self-Assembly of Graphene Oxide-Induced Monolithic NiCo ₂ Carbonate Hydroxide Nanowire Architectures with a Superior Volumetric Capacitance for Supercapacitors. <i>Advanced Functional Materials</i> , 2015 , 25, 2109-2116	15.6	199
40	Nitrogen-rich carbon coupled multifunctional metal oxide/graphene nanohybrids for long-life lithium storage and efficient oxygen reduction. <i>Nano Energy</i> , 2015 , 12, 578-587	17.1	66
39	Carbon foam: Preparation and application. <i>Carbon</i> , 2015 , 87, 128-152	10.4	269
38	Dually fixed SnO ₂ nanoparticles on graphene nanosheets by polyaniline coating for superior lithium storage. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2444-51	9.5	90
37	Ultrafast Fabrication of Covalently Cross-linked Multifunctional Graphene Oxide Monoliths. <i>Advanced Functional Materials</i> , 2014 , 24, 4915-4921	15.6	86
36	Electrolysis removal of methyl orange dye from water by electrospun activated carbon fibers modified with carbon nanotubes. <i>Chemical Engineering Journal</i> , 2014 , 253, 73-77	14.7	36

35	Polymer casting of ultralight graphene aerogels for the production of conductive nanocomposites with low filling content. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3756-3760	13	42
34	Highly efficient synthesis of graphene/MnO ₂ hybrids and their application for ultrafast oxidative decomposition of methylene blue. <i>Carbon</i> , 2014 , 66, 485-492	10.4	166
33	Microwave-assisted synthesis of MoS ₂ /graphene nanocomposites for efficient hydrodesulfurization. <i>Fuel</i> , 2014 , 119, 163-169	7.1	51
32	Boron-doped graphene as a high-efficiency counter electrode for dye-sensitized solar cells. <i>Chemical Communications</i> , 2014 , 50, 3328-30	5.8	99
31	Recyclable catalyst for catalytic hydrogenation of phenylacetylene by coupling Pd nanoparticles with highly compressible graphene aerogels. <i>RSC Advances</i> , 2014 , 4, 59977-59980	3.7	16
30	Low temperature plasma synthesis of mesoporous Fe ₃ O ₄ nanorods grafted on reduced graphene oxide for high performance lithium storage. <i>Nanoscale</i> , 2014 , 6, 2286-91	7.7	87
29	Enhancing lithium-sulphur battery performance by strongly binding the discharge products on amino-functionalized reduced graphene oxide. <i>Nature Communications</i> , 2014 , 5, 5002	17.4	792
28	Graphene Oxide: Ultrafast Fabrication of Covalently Cross-linked Multifunctional Graphene Oxide Monoliths (Adv. Funct. Mater. 31/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 4914-4914	15.6	
27	Chemically patterned polyaniline arrays located on pyrolytic graphene for supercapacitors. <i>Carbon</i> , 2014 , 80, 799-807	10.4	28
26	Compressible Carbon Nanotube/Graphene Hybrid Aerogels with Superhydrophobicity and Superoleophilicity for Oil Sorption. <i>Environmental Science and Technology Letters</i> , 2014 , 1, 214-220	11	192
25	3D Architecture Materials Made of NiCoAl-LDH Nanoplates Coupled with NiCo-Carbonate Hydroxide Nanowires Grown on Flexible Graphite Paper for Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2014 , 4, 1400761	21.8	220
24	Folding of graphene into elastic nanobelts. <i>Carbon</i> , 2014 , 76, 46-53	10.4	9
23	Polymer/graphene hybrid aerogel with high compressibility, conductivity, and "sticky" superhydrophobicity. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3242-9	9.5	125
22	Highly efficient low-temperature plasma-assisted modification of TiO ₂ nanosheets with exposed {001} facets for enhanced visible-light photocatalytic activity. <i>Chemistry - A European Journal</i> , 2014 , 20, 14763-70	4.8	59
21	Ultrasound-assisted preparation of electrospun carbon nanofiber/graphene composite electrode for supercapacitors. <i>Journal of Power Sources</i> , 2013 , 243, 350-353	8.9	81
20	Nitrogen-doped carbon microfibers with porous textures. <i>Carbon</i> , 2013 , 58, 128-133	10.4	23
19	Highly controllable and green reduction of graphene oxide to flexible graphene film with high strength. <i>Materials Research Bulletin</i> , 2013 , 48, 4797-4803	5.1	50
18	Influence of pore structures on the electrochemical performance of asphaltene-based ordered mesoporous carbons. <i>Microporous and Mesoporous Materials</i> , 2013 , 174, 67-73	5.3	28

17	In Situ Growth of Carbon Nanotubes on Carbon Foam for Enhanced Oil Adsorption. <i>Applied Mechanics and Materials</i> , 2013 , 423-426, 130-134	0.3	1
16	Synthesis of a carbon nanofiber/carbon foam composite from coal liquefaction residue for the separation of oil and water. <i>Carbon</i> , 2013 , 59, 530-536	10.4	82
15	Ultralight and highly compressible graphene aerogels. <i>Advanced Materials</i> , 2013 , 25, 2219-23	24	1074
14	Highly atom-economic synthesis of graphene/MnO ₂ hybrid composites for electrochemical supercapacitors. <i>Nanoscale</i> , 2013 , 5, 2999-3005	7.7	115
13	A flexible TiO ₂ (B)-based battery electrode with superior power rate and ultralong cycle life. <i>Advanced Materials</i> , 2013 , 25, 3462-7	24	274
12	Graphene Sheets from Graphitized Anthracite Coal: Preparation, Decoration, and Application. <i>Energy & Fuels</i> , 2012 , 26, 5186-5192	4.1	104
11	Low-temperature plasma-assisted preparation of graphene supported palladium nanoparticles with high hydrodesulfurization activity. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14363		56
10	Low temperature plasma-mediated synthesis of graphene nanosheets for supercapacitor electrodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6061		51
9	The role of microwave absorption on formation of graphene from graphite oxide. <i>Carbon</i> , 2012 , 50, 3267-3273	3.2	212
8	Effect of activation time on the properties of activated carbons prepared by microwave-assisted activation for electric double layer capacitors. <i>Carbon</i> , 2010 , 48, 1662-1669	10.4	114
7	Preparation of porous carbons from petroleum coke by different activation methods. <i>Fuel</i> , 2005 , 84, 1992-1997	7.1	67
6	In Situ Construction of Nickel Sulfide Nano-Heterostructures for Highly Efficient Overall Urea Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	2
5	A Copper Iodide Cluster-Based Metal-Organic Polyhedra for Photocatalytic Click Chemistry. <i>Small Structures</i> , 2100155	8.7	5
4	Preparation and piezoelectric catalytic performance of flexible inorganic Ba _{1-x} CaxTiO ₃ via electrospinning. <i>Journal of Materials Chemistry A</i> ,	13	1
3	Kinetically accelerated and high-mass loaded lithium storage enabled by atomic iron embedded carbon nanofibers. <i>Nano Research</i> , 1	10	0
2	Oxygen-Deficient Metal Oxides for Supercapacitive Energy Storage: From Theoretical Calculation to Structural Regulation and Utilization. <i>Advanced Energy and Sustainability Research</i> , 2100221	1.6	0
1	Strategies to activate inert nitrogen molecules for efficient ammonia electrosynthesis: current status, challenges, and perspectives. <i>Energy and Environmental Science</i> ,	35.4	4