

Xing-Bin Yan

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.

250
papers

14,332
citations

68
h-index

109
g-index

255
ext. papers

16,424
ext. citations

9.2
avg, IF

7.05
L-index

#	Paper	IF	Citations
250	Regulating the electrolyte ion types and exposed crystal facets for pseudocapacitive energy storage of transition metal nitrides. <i>Energy Storage Materials</i> , 2022 , 46, 278-288	19.4	4
249	Recovering the electrochemical window by forming a localized solvation nanostructure in ionic liquids with trace water. <i>Science China Chemistry</i> , 2022 , 65, 96	7.9	0
248	Realizing high-performance lithium ion hybrid capacitor with a 3D MXene-carbon nanotube composite anode. <i>Chemical Engineering Journal</i> , 2022 , 429, 132392	14.7	4
247	Coupling of graphene quantum dots with MnO ₂ nanosheets for boosting capacitive storage in ionic liquid electrolyte. <i>Chemical Engineering Journal</i> , 2022 , 437, 135301	14.7	1
246	Cation/anion With Co-solvation-Type High-voltage Aqueous Electrolyte Enabled by Strong Hydrogen Bonding. <i>Nano Energy</i> , 2022 , 107377	17.1	5
245	Recent advances in Mg-Li and Mg-Na hybrid batteries. <i>Energy Storage Materials</i> , 2021 ,	19.4	6
244	Low-Temperature Synthesis of Amorphous FePO ₄ @rGO Composites for Cost-Effective Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 57442-57450	9.5	4
243	Monitoring the mechanical properties of the solid electrolyte interphase (SEI) using electrochemical quartz crystal microbalance with dissipation. <i>Chinese Chemical Letters</i> , 2021 , 32, 1139-1143	8.1	8
242	Flexible lithium metal capacitors enabled by an in situ prepared gel polymer electrolyte. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	2
241	Salty Ice Electrolyte with Superior Ionic Conductivity Towards Low-Temperature Aqueous Zinc Ion Hybrid Capacitors. <i>Advanced Functional Materials</i> , 2021 , 31, 2101277	15.6	32
240	Magnetic field-induced capacitance change in aqueous carbon-based supercapacitors. <i>Cell Reports Physical Science</i> , 2021 , 2, 100455	6.1	5
239	Aligned Ti ₃ C ₂ T _x Electrodes Induced by Magnetic Field for High-Performance Lithium-Ion Storage. <i>ACS Applied Energy Materials</i> , 2021 , 4, 5590-5598	6.1	1
238	A rechargeable aqueous zinc/sodium manganese oxides battery with robust performance enabled by Na ₂ SO ₄ electrolyte additive. <i>Energy Storage Materials</i> , 2021 , 38, 299-308	19.4	20
237	Construction of Supercapacitor-Based Ionic Diodes with Adjustable Bias Directions by Using Poly(ionic liquid) Electrolytes. <i>Advanced Materials</i> , 2021 , 33, e2100887	24	8
236	Preparation of Three-Dimensional Copper-Zinc Alloy Current Collector by Powder Metallurgy for Lithium Metal Battery Anode. <i>ChemElectroChem</i> , 2021 , 8, 2479-2487	4.3	4
235	An aqueous zinc-ion hybrid super-capacitor for achieving ultrahigh-volumetric energy density. <i>Chinese Chemical Letters</i> , 2021 , 32, 926-931	8.1	19
234	One produced three: A capacitor-battery integration strategy in a dual-carbon device. <i>Energy Storage Materials</i> , 2021 , 34, 356-364	19.4	3

233	The Applications of Water-in-Salt Electrolytes in Electrochemical Energy Storage Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2006749	15.6	54
232	Boosting the performance of lithium metal capacitors with a Li composite anode. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10722-10730	13	3
231	Ion regulation of ionic liquid electrolytes for supercapacitors. <i>Energy and Environmental Science</i> , 2021 , 14, 2859-2882	35.4	13
230	Enhanced field emission performance of MXene-TiO composite films. <i>Nanoscale</i> , 2021 , 13, 7622-7629	7.7	7
229	Understanding Oxygen Bubble-Triggered Exfoliation of Graphite Toward the Low-Defect Graphene. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001899	4.6	2
228	Designing a Zn(BF ₄) ₂ -Based Ionic Liquid Electrolyte to Realize Superior Energy Density in a Carbon-Based Zinc-Ion Hybrid Capacitor. <i>ChemElectroChem</i> , 2021 , 8, 1289-1297	4.3	5
227	Size Effects in Sodium Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 2106047	15.6	7
226	Recent progress of cathode materials for aqueous zinc-ion capacitors: Carbon-based materials and beyond. <i>Carbon</i> , 2021 , 185, 126-151	10.4	16
225	An ultrahigh-energy-density lithium metal capacitor. <i>Energy Storage Materials</i> , 2021 , 42, 154-163	19.4	3
224	One dimensional graphene nanoscroll-wrapped MnO nanoparticles for high-performance lithium ion hybrid capacitors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6352-6360	13	18
223	3D high-density MXene@MnO ₂ microflowers for advanced aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24635-24644	13	32
222	Facile synthesis of Co and Ce dual-doped Ni ₃ S ₂ nanosheets on Ni foam for enhanced oxygen evolution reaction. <i>Nano Research</i> , 2020 , 13, 2130-2135	10	32
221	TiO ₂ Nanoparticles In Situ Formed on Ti ₃ C ₂ Nanosheets by a One-Step Ethanol-Thermal Method for Enhanced Reversible Lithium-Ion Storage. <i>ChemistrySelect</i> , 2020 , 5, 3124-3129	1.8	16
220	Synergetic ternary metal oxide nanodots-graphene cathode for high performance zinc energy storage. <i>Chinese Chemical Letters</i> , 2020 , 31, 2358-2364	8.1	13
219	Recent advances in dual-carbon based electrochemical energy storage devices. <i>Nano Energy</i> , 2020 , 72, 104728	17.1	50
218	Hybrid Aqueous/Nonaqueous Water-in-Bisalt Electrolyte Enables Safe Dual Ion Batteries. <i>Small</i> , 2020 , 16, e1905838	11	35
217	All-climate aqueous supercapacitor enabled by a deep eutectic solvent electrolyte based on salt hydrate. <i>Journal of Energy Chemistry</i> , 2020 , 49, 198-204	12	28
216	Water in salt/ionic liquid electrolyte for 2.8V aqueous lithium-ion capacitor. <i>Science Bulletin</i> , 2020 , 65, 1812-1822	10.6	32

215	Dual-Strategy to Construct Aqueous-Based Symmetric Supercapacitors with High Volumetric Energy Density. <i>ChemElectroChem</i> , 2020 , 7, 838-845	4.3	5
214	TiC (MXene) based field electron emitters. <i>Nanotechnology</i> , 2020 , 31, 285701	3.4	10
213	A Safe, High-Performance, and Long-Cycle Life Zinc-Ion Hybrid Capacitor Based on Three-Dimensional Porous Activated Carbon. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2020 , 36, 1904050-0	3.8	23
212	A metalorganic framework-derived pseudocapacitive titanium oxide/carbon core/shell heterostructure for high performance potassium ion hybrid capacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16302-16311	13	19
211	Rolling up MXene sheets into scrolls to promote their anode performance in lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2020 , 46, 256-263	12	29
210	High-performance nitrogen and sulfur co-doped nanotube-like carbon anodes for sodium ion hybrid capacitors. <i>Chinese Chemical Letters</i> , 2020 , 31, 2219-2224	8.1	11
209	Constructing consistent pore microstructures of bacterial cellulose-derived cathode and anode materials for high energy density sodium-ion capacitors. <i>New Journal of Chemistry</i> , 2020 , 44, 1865-1871	3.6	8
208	Optimization of Electrode Potential Ranges for Constructing 4.0 V Carbon-Based Supercapacitors. <i>ChemElectroChem</i> , 2020 , 7, 624-630	4.3	3
207	Porous g-CN and MXene Dual-Confined FeOOH Quantum Dots for Superior Energy Storage in an Ionic Liquid. <i>Advanced Science</i> , 2020 , 7, 1901975	13.6	100
206	Towards the understanding of acetonitrile suppressing salt precipitation mechanism in a water-in-salt electrolyte for low-temperature supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17998-18006	13	33
205	High voltage supercapacitor based on nonflammable high-concentration-ionic liquid electrolyte. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 598, 124858	5.1	4
204	Revealing the Impact of Oxygen Dissolved in Electrolytes on Aqueous Zinc-Ion Batteries. <i>Science</i> , 2020 , 23, 100995	6.1	32
203	Achieving a 2.7 V aqueous hybrid supercapacitor by the pH-regulation of electrolyte. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8648-8660	13	18
202	High-Performance and Ultra-Stable Aqueous Supercapacitors Based on a Green and Low-Cost Water-In-Salt Electrolyte. <i>ChemElectroChem</i> , 2019 , 6, 5433-5438	4.3	31
201	Recent advances in understanding Li ₂ CO ₂ electrochemistry. <i>Energy and Environmental Science</i> , 2019 , 12, 887-922	35.4	128
200	An Ultrathin, Nanogradient, and Substrate-Independent WO _x -Based Film as a High Performance Flexible Solar Absorber. <i>Solar Rrl</i> , 2019 , 3, 1900180	7.1	21
199	Vacuum Filtration-and-Transfer Technique Helps Electrochemical Quartz Crystal Microbalance to Reveal Accurate Charge Storage in Supercapacitors. <i>Small Methods</i> , 2019 , 3, 1900246	12.8	15
198	Potassium-Ion Batteries: Disordered, Large Interlayer Spacing, and Oxygen-Rich Carbon Nanosheets for Potassium Ion Hybrid Capacitor (Adv. Energy Mater. 19/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970069	21.8	25

197	Spinel-type solar-thermal conversion coatings on supercapacitors: An effective strategy for capacitance recovery at low temperatures. <i>Energy Storage Materials</i> , 2019 , 23, 159-167	19.4	15
196	3D nitrogen-doped framework carbon for high-performance potassium ion hybrid capacitor. <i>Energy Storage Materials</i> , 2019 , 23, 522-529	19.4	127
195	Effects of selenization conditions on microstructure evolution in solution processed Cu ₂ ZnSn(S,Se) ₄ solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 195, 274-279	6.4	24
194	A sodium perchlorate-based hybrid electrolyte with high salt-to-water molar ratio for safe 2.5 V carbon-based supercapacitor. <i>Energy Storage Materials</i> , 2019 , 23, 603-609	19.4	71
193	Highly enhanced energy density of supercapacitors at extremely low temperatures. <i>Journal of Power Sources</i> , 2019 , 423, 271-279	8.9	42
192	Disordered, Large Interlayer Spacing, and Oxygen-Rich Carbon Nanosheets for Potassium Ion Hybrid Capacitor. <i>Advanced Energy Materials</i> , 2019 , 9, 1803894	21.8	177
191	A low-cost Water-in-salt electrolyte for a 2.3 V high-rate carbon-based supercapacitor. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7541-7547	13	160
190	Candle soot: onion-like carbon, an advanced anode material for a potassium-ion hybrid capacitor. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9247-9252	13	83
189	Optimization of Organic/Water Hybrid Electrolytes for High-Rate Carbon-Based Supercapacitor. <i>Advanced Functional Materials</i> , 2019 , 29, 1904136	15.6	56
188	Recent advances in anode materials for sodium - and potassium-ion hybrid capacitors. <i>Current Opinion in Electrochemistry</i> , 2019 , 18, 1-8	7.2	27
187	A moisture absorbing gel electrolyte enables aqueous and flexible supercapacitors operating at high temperatures. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20398-20404	13	41
186	CeO-Decorated Hierarchical NiCoS Hollow Nanotubes Arrays for Enhanced Oxygen Evolution Reaction Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39841-39847	9.5	53
185	Effect of sulfurization process on the properties of solution-processed Cu ₂ SnS ₃ thin film solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 17947-17955	2.1	1
184	Magnetic Field Regulating the Graphite Electrode for Excellent Lithium-Ion Batteries Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6152-6160	8.3	16
183	Supercapacitors: Vacuum Filtration-and-Transfer Technique Helps Electrochemical Quartz Crystal Microbalance to Reveal Accurate Charge Storage in Supercapacitors (Small Methods 11/2019). <i>Small Methods</i> , 2019 , 3, 1970037	12.8	0
182	Silica-grafted ionic liquid for maximizing the operational voltage of electrical double-layer capacitors. <i>Energy Storage Materials</i> , 2019 , 18, 253-259	19.4	10
181	The Charge Storage Mechanisms of 2D Cation-Intercalated Manganese Oxide in Different Electrolytes. <i>Advanced Energy Materials</i> , 2019 , 9, 1802707	21.8	67
180	Constructing surface-driven lithium ion storage structure for high performance hybrid capacitor. <i>Electrochimica Acta</i> , 2019 , 299, 163-172	6.7	15

179	The Origin of Electrochemical Actuation of MnO ₂ /Ni Bilayer Film Derived by Redox Pseudocapacitive Process. <i>Advanced Functional Materials</i> , 2019 , 29, 1806778	15.6	26
178	Punching holes on paper-like electrodes: An effective strategy to enhance rate performance of supercapacitors. <i>Energy Storage Materials</i> , 2019 , 19, 338-345	19.4	12
177	Advances in Manganese-Based Oxides Cathodic Electrocatalysts for Li-Air Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1704973	15.6	97
176	Spontaneous Growth of 3D Framework Carbon from Sodium Citrate for High Energy- and Power-Density and Long-Life Sodium-Ion Hybrid Capacitors. <i>Advanced Energy Materials</i> , 2018 , 8, 1702409	21.8	170
175	Sprinkling MnFe ₂ O ₄ quantum dots on nitrogen-doped graphene sheets: the formation mechanism and application for high-performance supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9997-10007	13	49
174	Field emission cathode based on three-dimensional framework carbon and its operation under the driving of a triboelectric nanogenerator. <i>Nano Energy</i> , 2018 , 49, 308-315	17.1	15
173	Synthesis of MXene-supported layered MoS ₂ with enhanced electrochemical performance for Mg batteries. <i>Chinese Chemical Letters</i> , 2018 , 29, 1313-1316	8.1	29
172	Opening Magnesium Storage Capability of Two-Dimensional MXene by Intercalation of Cationic Surfactant. <i>ACS Nano</i> , 2018 , 12, 3733-3740	16.7	141
171	Three-dimensional carbon framework as a promising anode material for high performance sodium ion storage devices. <i>Chemical Engineering Journal</i> , 2018 , 353, 453-459	14.7	41
170	A combined DFT and experimental study on the nucleation mechanism of NiO nanodots on graphene. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13717-13724	13	11
169	The roles of graphene in advanced Li-ion hybrid supercapacitors. <i>Journal of Energy Chemistry</i> , 2018 , 27, 43-56	12	50
168	Nanotube-like hard carbon as high-performance anode material for sodium ion hybrid capacitors. <i>Science China Materials</i> , 2018 , 61, 285-295	7.1	24
167	Solar-Thermal Driven Self-Heating of Micro-Supercapacitors at Low Temperatures. <i>Solar Rrl</i> , 2018 , 2, 1800223	7.1	31
166	Recent Advances of Cellulose-Based Materials and Their Promising Application in Sodium-Ion Batteries and Capacitors. <i>Small</i> , 2018 , 14, e1802444	11	55
165	A High-Performance Sodium-Ion Hybrid Capacitor Constructed by Metal-Organic Framework-Derived Anode and Cathode Materials. <i>Advanced Functional Materials</i> , 2018 , 28, 1800757	15.6	151
164	Crossed carbon skeleton enhances the electrochemical performance of porous silicon nanowires for lithium ion battery anode. <i>Electrochimica Acta</i> , 2018 , 280, 86-93	6.7	29
163	Safe and high-rate supercapacitors based on an acetonitrile/water in salt-hybrid electrolyte. <i>Energy and Environmental Science</i> , 2018 , 11, 3212-3219	35.4	186
162	A Dual Carbon-Based Potassium Dual Ion Battery with Robust Comprehensive Performance. <i>Small</i> , 2018 , 14, e1801836	11	88

161	Bioinspired Manganese Complexes and Graphene Oxide Synergistically Catalyzed Asymmetric Epoxidation of Olefins with Aqueous Hydrogen Peroxide. <i>Advanced Synthesis and Catalysis</i> , 2017 , 359, 476-484	5.6	17
160	Recent Advances in Dual-Functional Devices Integrating Solar Cells and Supercapacitors. <i>Solar Rrl</i> , 2017 , 1, 1700002	7.1	64
159	Controllable synthesis of Mn ₃ O ₄ nanodots@nitrogen-doped graphene and its application for high energy density supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5523-5531	13	47
158	2-Methylimidazole-Derived Ni-Co Layered Double Hydroxide Nanosheets as High Rate Capability and High Energy Density Storage Material in Hybrid Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15510-15524	9.5	256
157	Large field emission current and density from robust carbon nanotube cathodes for continuous and pulsed electron sources. <i>Science China Materials</i> , 2017 , 60, 335-342	7.1	16
156	An Asymmetric Supercapacitor with Both Ultra-High Gravimetric and Volumetric Energy Density Based on 3D Ni(OH)/MnO@Carbon Nanotube and Activated Polyaniline-Derived Carbon. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 668-676	9.5	64
155	In-Plane Micro-Supercapacitors for an Integrated Device on One Piece of Paper. <i>Advanced Functional Materials</i> , 2017 , 27, 1702394	15.6	151
154	Realizing the Embedded Growth of Large LiO Aggregations by Matching Different Metal Oxides for High-Capacity and High-Rate Lithium Oxygen Batteries. <i>Advanced Science</i> , 2017 , 4, 1700172	13.6	48
153	High Rate and Long Cycle Life of a CNT/rGO/Si Nanoparticle Composite Anode for Lithium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1700141	3.1	32
152	Effect of carboxylic acid groups on the supercapacitive performance of functional carbon frameworks derived from bacterial cellulose. <i>Chinese Chemical Letters</i> , 2017 , 28, 2212-2218	8.1	11
151	Engineering metal organic framework derived 3D nanostructures for high performance hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 292-302	13	90
150	Coupling effect between ultra-small Mn ₃ O ₄ nanoparticles and porous carbon microrods for hybrid supercapacitors. <i>Energy Storage Materials</i> , 2017 , 6, 53-60	19.4	54
149	Synthesis of CoNi oxide microflowers as a superior anode for hybrid supercapacitors with ultralong cycle life. <i>Chinese Chemical Letters</i> , 2017 , 28, 206-212	8.1	17
148	Silica-grafted ionic liquids for revealing the respective charging behaviors of cations and anions in supercapacitors. <i>Nature Communications</i> , 2017 , 8, 2188	17.4	73
147	Morphology Engineering of Co ₃ O ₄ Nanoarrays as Free-Standing Catalysts for Lithium-Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23713-20	9.5	70
146	Electrospinning Synthesis of Mesoporous MnCoNiO@Double-Carbon Nanofibers for Sodium-Ion Battery Anodes with Pseudocapacitive Behavior and Long Cycle Life. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34342-34352	9.5	30
145	Mesoporous Ni-doped MnCo ₂ O ₄ hollow nanotubes as an anode material for sodium ion batteries with ultralong life and pseudocapacitive mechanism. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18392-18400	13	53
144	Facile Synthesis of Fe ₂ O ₃ Nano-Dots@Nitrogen-Doped Graphene for Supercapacitor Electrode with Ultralong Cycle Life in KOH Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9335-44	9.5	165

143	Bifunctional tertiary amine-squaramide catalyzed asymmetric catalytic 1,6-conjugate addition/aromatization of para-quinone methides with oxindoles. <i>Chemical Communications</i> , 2016 , 52, 4183-6	5.8	115
142	Bean pod-like Si@dopamine-derived amorphous carbon@N-doped graphene nanosheet scrolls for high performance lithium storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10948-10955	13	55
141	3D Hierarchical Co/CoO-Graphene-Carbonized Melamine Foam as a Superior Cathode toward Long-Life Lithium Oxygen Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 1354-1364	15.6	171
140	Watchband-Like Supercapacitors with Body Temperature Inducible Shape Memory Ability. <i>Advanced Energy Materials</i> , 2016 , 6, 1600763	21.8	73
139	Field electron emission from pencil-drawn cold cathodes. <i>Applied Physics Letters</i> , 2016 , 108, 193112	3.4	7
138	Porous niobium nitride as a capacitive anode material for advanced Li-ion hybrid capacitors with superior cycling stability. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9760-9766	13	80
137	Study of Ni-doped MnCo ₂ O ₄ Yolk-Shell Submicron-spheres with Fast Li ⁺ Intercalation Pseudocapacitance As An Anode for High-Performance Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2016 , 203, 128-135	6.7	31
136	Carbon encapsulated RuO ₂ nano-dots anchoring on graphene as an electrode for asymmetric supercapacitors with ultralong cycle life in an ionic liquid electrolyte. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8180-8189	13	52
135	A high-temperature flexible supercapacitor based on pseudocapacitive behavior of FeOOH in an ionic liquid electrolyte. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8316-8327	13	105
134	All-solid-state flexible microsupercapacitor based on two-dimensional titanium carbide. <i>Chinese Chemical Letters</i> , 2016 , 27, 1586-1591	8.1	48
133	Synthesis and Electrochemical Biosensing Properties of Hierarchically Porous Nitrogen-Doped Graphene Microspheres. <i>ChemElectroChem</i> , 2015 , 2, 348-353	4.3	14
132	TiO ₂ embedded in carbon submicron-tablets: synthesis from a metal-organic framework precursor and application as a superior anode in lithium-ion batteries. <i>Chemical Communications</i> , 2015 , 51, 11370-35.8	5.8	51
131	Synthesis of Porous MnO ₂ Submicron Tubes as Highly Efficient Electrocatalyst for Rechargeable Li-O ₂ Batteries. <i>ChemSusChem</i> , 2015 , 8, 1972-9	8.3	39
130	Insight into the formation mechanism of graphene quantum dots and the size effect on their electrochemical behaviors. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 14028-35	3.6	30
129	Fabrication and Photocatalytic Properties of TiO ₂ /Reduced Graphene Oxide/Ag Nanocomposites with UV/Vis Response. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 2222-2228	2.3	21
128	A super-high energy density asymmetric supercapacitor based on 3D core-shell structured NiCo-layered double hydroxide@carbon nanotube and activated polyaniline-derived carbon electrodes with commercial level mass loading. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13244-13253	13	142
127	The controlled growth of porous MnO ₂ nanosheets on carbon fibers as a bi-functional catalyst for rechargeable lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10811-10818	13	50
126	Engineering the Electrochemical Capacitive Properties of Microsupercapacitors Based on Graphene Quantum Dots/MnO ₂ Using Ionic Liquid Gel Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25378-89	9.5	81

125	Three-dimensional hierarchical self-supported NiCo ₂ O ₄ /carbon nanotube core-shell networks as high performance supercapacitor electrodes. <i>RSC Advances</i> , 2015 , 5, 7976-7985	3.7	47
124	Hierarchically porous and nitrogen, sulfur-codoped graphene-like microspheres as a high capacity anode for lithium ion batteries. <i>Chemical Communications</i> , 2015 , 51, 2134-7	5.8	61
123	Hierarchically Porous and Nitrogen-Doped Graphene-Like Microspheres as Stable Anodes for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2015 , 2, 1830-1838	4.3	9
122	Chemical Functionalization, Self-Assembly, and Applications of Nanomaterials and Nanocomposites 2014. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-1	3.2	1
121	Ultra-small, size-controlled Ni(OH) ₂ nanoparticles: elucidating the relationship between particle size and electrochemical performance for advanced energy storage devices. <i>NPG Asia Materials</i> , 2015 , 7, e183-e183	10.3	90
120	Fast and Large Lithium Storage in 3D Porous VN Nanowires/Graphene Composite as a Superior Anode Toward High-Performance Hybrid Supercapacitors. <i>Advanced Functional Materials</i> , 2015 , 25, 2270-2278	15.6	328
119	Synergistic Effect between Ultra-Small Nickel Hydroxide Nanoparticles and Reduced Graphene Oxide sheets for the Application in High-Performance Asymmetric Supercapacitor. <i>Scientific Reports</i> , 2015 , 5, 11095	4.9	99
118	Carbon nanofiber bridged two-dimensional titanium carbide as a superior anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14096-14100	13	124
117	The Fabrication of Carbon Nanofibers Paper Supported CoO ₄ Nanocomposite and Their Electrochemical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 3981-6	1.3	4
116	Adjusting electrode initial potential to obtain high-performance asymmetric supercapacitor based on porous vanadium pentoxide nanotubes and activated carbon nanorods. <i>Journal of Power Sources</i> , 2015 , 279, 358-364	8.9	57
115	Superior asymmetric supercapacitor based on Ni-Co oxide nanosheets and carbon nanorods. <i>Scientific Reports</i> , 2014 , 4, 3712	4.9	142
114	Synthesis and field emission properties of carbon nanotube films modified with amorphous carbon nanoparticles by a simple electrodeposition method. <i>Chinese Chemical Letters</i> , 2014 , 25, 375-379	8.1	5
113	Green fabrication of porous chitosan/graphene oxide composite xerogels for drug delivery. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	10
112	Engineering the field emission properties of graphene film by gas adsorbates. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1850-5	3.6	14
111	Enhancement in the fluorescence of graphene quantum dots by hydrazine hydrate reduction. <i>Carbon</i> , 2014 , 66, 334-339	10.4	108
110	Morphology and crystallinity-controlled synthesis of MnO ₂ hierarchical nanostructures and their application in lithium ion batteries. <i>CrystEngComm</i> , 2014 , 16, 10476-10484	3.3	26
109	A hybrid supercapacitor based on flower-like Co(OH) ₂ and urchin-like VN electrode materials. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12724-12732	13	276
108	Free-standing three-dimensional graphene/manganese oxide hybrids as binder-free electrode materials for energy storage applications. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11665-74	9.5	103

107	Hierarchical porous activated carbon produced from spinach leaves as an electrode material for an electric double layer capacitor. <i>New Carbon Materials</i> , 2014 , 29, 209-215	4.4	28
106	Engineering the electrochemical capacitive properties of graphene sheets in ionic-liquid electrolytes by correct selection of anions. <i>ChemSusChem</i> , 2014 , 7, 3053-62	8.3	61
105	Facile preparation of large-scale graphene nanoscrolls from graphene oxide sheets by cold quenching in liquid nitrogen. <i>Carbon</i> , 2014 , 79, 470-477	10.4	41
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