Xing-Bin Yan

List of Publications by Citations

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	Superior Micro-Supercapacitors Based on Graphene Quantum Dots. *Advanced Functional Materials*, **2013**, 23, 4111-4122	15.6	490
249	Fabrication of free-standing, electrochemically active, and biocompatible graphene oxide-polyaniline and graphene-polyaniline hybrid papers. *ACS Applied Materials & Interfaces*, **2010**, 2, 2521-9	9.5	429
248	Promising activated carbons derived from waste tea-leaves and their application in high performance supercapacitors electrodes. *Electrochimica Acta*, **2013**, 87, 401-408	6.7	354
247	Promising porous carbon derived from celtuce leaves with outstanding supercapacitance and CO□ capture performance. *ACS Applied Materials & Interfaces*, **2012**, 4, 5800-6	9.5	334
246	Fast and Large Lithium Storage in 3D Porous VN Nanowires□Graphene Composite as a Superior Anode Toward High-Performance Hybrid Supercapacitors. *Advanced Functional Materials*, **2015**, 25, 2270-2278	15.6	328
245	Flexible and conductive nanocomposite electrode based on graphene sheets and cotton cloth for supercapacitor. *Journal of Materials Chemistry*, **2012**, 22, 17245		312
244	A hybrid supercapacitor based on flower-like Co(OH)2 and urchin-like VN electrode materials. *Journal of Materials Chemistry A*, **2014**, 2, 12724-12732	13	276
243	2-Methylimidazole-Derived Ni-Co Layered Double Hydroxide Nanosheets as High Rate Capability and High Energy Density Storage Material in Hybrid Supercapacitors. *ACS Applied Materials & Interfaces*, **2017**, 9, 15510-15524	9.5	256
242	Fabrication of carbon nanofiber-polyaniline composite flexible paper for supercapacitor. *Nanoscale*, **2011**, 3, 212-6	7.7	254
241	Novel and high-performance asymmetric micro-supercapacitors based on graphene quantum dots and polyaniline nanofibers. *Nanoscale*, **2013**, 5, 6053-62	7.7	237
240	Safe and high-rate supercapacitors based on an □cetonitrile/water in salt□hybrid electrolyte. *Energy and Environmental Science*, **2018**, 11, 3212-3219	35.4	186
239	Disordered, Large Interlayer Spacing, and Oxygen-Rich Carbon Nanosheets for Potassium Ion Hybrid Capacitor. *Advanced Energy Materials*, **2019**, 9, 1803894	21.8	177
238	3D Hierarchical Co/CoO-Graphene-Carbonized Melamine Foam as a Superior Cathode toward Long-Life Lithium Oxygen Batteries. *Advanced Functional Materials*, **2016**, 26, 1354-1364	15.6	171
237	Spontaneous Growth of 3D Framework Carbon from Sodium Citrate for High Energy- and Power-Density and Long-Life Sodium-Ion Hybrid Capacitors. *Advanced Energy Materials*, **2018**, 8, 1702409	21.8	170
236	NO2 gas sensing with polyaniline nanofibers synthesized by a facile aqueous/organic interfacial polymerization. *Sensors and Actuators B: Chemical*, **2007**, 123, 107-113	8.5	167
235	Facile Synthesis of Fe2O3 Nano-Dots@Nitrogen-Doped Graphene for Supercapacitor Electrode with Ultralong Cycle Life in KOH Electrolyte. *ACS Applied Materials & Interfaces*, **2016**, 8, 9335-44	9.5	165
234	A low-cost □water-in-salt□electrolyte for a 2.3 V high-rate carbon-based supercapacitor. *Journal of Materials Chemistry A*, **2019**, 7, 7541-7547	13	160

233	High performance supercapacitor electrode based on graphene paper via flame-induced reduction of graphene oxide paper. *Journal of Power Sources*, **2013**, 222, 52-58	8.9	158
232	Tribological Behavior of UHMWPE Reinforced with Graphene Oxide Nanosheets. *Tribology Letters*, **2012**, 46, 55-63	2.8	156
231	Preparation, mechanical properties and biocompatibility of graphene oxide/ultrahigh molecular weight polyethylene composites. *European Polymer Journal*, **2012**, 48, 1026-1033	5.2	151
230	In-Plane Micro-Supercapacitors for an Integrated Device on One Piece of Paper. *Advanced Functional Materials*, **2017**, 27, 1702394	15.6	151
229	A High-Performance Sodium-Ion Hybrid Capacitor Constructed by Metal□Organic Framework□Derived Anode and Cathode Materials. *Advanced Functional Materials*, **2018**, 28, 1800757	15.6	151
228	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. *Journal of Materials Chemistry A*, **2015**, 3, 13244-13253	13	142
227	Superior asymmetric supercapacitor based on Ni-Co oxide nanosheets and carbon nanorods. *Scientific Reports*, **2014**, 4, 3712	4.9	142
226	Opening Magnesium Storage Capability of Two-Dimensional MXene by Intercalation of Cationic Surfactant. *ACS Nano*, **2018**, 12, 3733-3740	16.7	141
225	Enhancement of capacitance performance of flexible carbon nanofiber paper by adding graphene nanosheets. *Journal of Power Sources*, **2012**, 199, 373-378	8.9	140
224	Large-size graphene microsheets as a protective layer for transparent conductive silver nanowire film heaters. *Carbon*, **2014**, 69, 437-443	10.4	134
223	Transparent and flexible glucose biosensor via layer-by-layer assembly of multi-wall carbon nanotubes and glucose oxidase. *Electrochemistry Communications*, **2007**, 9, 1269-1275	5.1	134
222	Influence of nitric acid modification of ordered mesoporous carbon materials on their capacitive performances in different aqueous electrolytes. *Journal of Power Sources*, **2012**, 204, 220-229	8.9	129
221	Recent advances in understanding Li□CO2 electrochemistry. *Energy and Environmental Science*, **2019**, 12, 887-922	35.4	128
220	3D nitrogen-doped framework carbon for high-performance potassium ion hybrid capacitor. *Energy Storage Materials*, **2019**, 23, 522-529	19.4	127
219	Carbon nanofiber bridged two-dimensional titanium carbide as a superior anode for lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 14096-14100	13	124
218	Three-dimensional Ni(OH)2 nanoflakes/graphene/nickel foam electrode with high rate capability for supercapacitor applications. *International Journal of Hydrogen Energy*, **2014**, 39, 7876-7884	6.7	122
217	Facile preparation and electrochemical characterization of cobalt oxide/multi-walled carbon nanotube composites for supercapacitors. *Journal of Power Sources*, **2011**, 196, 7841-7846	8.9	120
216	Bifunctional tertiary amine-squaramide catalyzed asymmetric catalytic 1,6-conjugate addition/aromatization of para-quinone methides with oxindoles. *Chemical Communications*, **2016**, 52, 4183-6	5.8	115

215	Fabrication and characterization of poly(vinyl alcohol)/graphene oxide nanofibrous biocomposite scaffolds. *Journal of Applied Polymer Science*, **2013**, 127, 1885-1894	2.9	113
214	Influence of different buffer gases on synthesis of few-layered graphene by arc discharge method. *Applied Surface Science*, **2012**, 258, 4523-4531	6.7	111
213	Enhancement in the fluorescence of graphene quantum dots by hydrazine hydrate reduction. *Carbon*, **2014**, 66, 334-339	10.4	108
212	Study of structure, tribological properties and growth mechanism of DLC and nitrogen-doped DLC films deposited by electrochemical technique. *Applied Surface Science*, **2004**, 236, 328-335	6.7	105
211	A high-temperature flexible supercapacitor based on pseudocapacitive behavior of FeOOH in an ionic liquid electrolyte. *Journal of Materials Chemistry A*, **2016**, 4, 8316-8327	13	105
210	Free-standing three-dimensional graphene/manganese oxide hybrids as binder-free electrode materials for energy storage applications. *ACS Applied Materials & Interfaces*, **2014**, 6, 11665-74	9.5	103
209	Porous g-CN and MXene Dual-Confined FeOOH Quantum Dots for Superior Energy Storage in an Ionic Liquid. *Advanced Science*, **2020**, 7, 1901975	13.6	100
208	Synergistic Effect between Ultra-Small Nickel Hydroxide Nanoparticles and Reduced Graphene Oxide sheets for the Application in High-Performance Asymmetric Supercapacitor. *Scientific Reports*, **2015**, 5, 11095	4.9	99
207	Advances in Manganese-Based Oxides Cathodic Electrocatalysts for Li-Air Batteries. *Advanced Functional Materials*, **2018**, 28, 1704973	15.6	97
206	Fabrication of Carbon Nanotube-Polyaniline Composites via Electrostatic Adsorption in Aqueous Colloids. *Journal of Physical Chemistry C*, **2007**, 111, 4125-4131	3.8	96
205	Identifying pseudocapacitance of Fe2O3 in an ionic liquid and its application in asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2014**, 2, 14550-14556	13	91
204	Preparation and cytocompatibility of polylactic acid/hydroxyapatite/graphene oxide nanocomposite fibrous membrane. *Science Bulletin*, **2012**, 57, 3051-3058		91
203	Engineering metal organic framework derived 3D nanostructures for high performance hybrid supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 292-302	13	90
202	Ultra-small, size-controlled Ni(OH)2 nanoparticles: elucidating the relationship between particle size and electrochemical performance for advanced energy storage devices. *NPG Asia Materials*, **2015**, 7, e183-e183	10.3	90
201	Study on the electrochemical properties of cubic ordered mesoporous carbon for supercapacitors. *Journal of Power Sources*, **2011**, 196, 10472-10478	8.9	88
200	A Dual Carbon-Based Potassium Dual Ion Battery with Robust Comprehensive Performance. *Small*, **2018**, 14, e1801836	11	88
199	Facile preparation of one-dimensional wrapping structure: graphene nanoscroll-wrapped of Fe3O4 nanoparticles and its application for lithium-ion battery. *ACS Applied Materials & Interfaces*, **2014**, 6, 9890-6	9.5	87
198	Effects of concentration and temperature of EMIMBF4/acetonitrile electrolyte on the supercapacitive behavior of graphene nanosheets. *Journal of Materials Chemistry*, **2012**, 22, 8853		87

197	Dispersing and functionalizing multiwalled carbon nanotubes in TiO2 sol. *Journal of Physical Chemistry B*, **2006**, 110, 25844-9	3.4	87
196	Catalytic performances of NiO□CeO2 for the reforming of methane with CO2 and O2. *Fuel*, **2006**, 85, 2243-2247	7.1	87
195	Field emission from ordered carbon nanotube-ZnO heterojunction arrays. *Carbon*, **2008**, 46, 753-758	10.4	86
194	Candle soot: onion-like carbon, an advanced anode material for a potassium-ion hybrid capacitor. *Journal of Materials Chemistry A*, **2019**, 7, 9247-9252	13	83
193	Enhanced electrochemical properties of graphene-wrapped ZnMn2O4 nanorods for lithium-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 149-154	13	83
192	Engineering the Electrochemical Capacitive Properties of Microsupercapacitors Based on Graphene Quantum Dots/MnO2 Using Ionic Liquid Gel Electrolytes. *ACS Applied Materials & Interfaces*, **2015**, 7, 25378-89	9.5	81
191	Porous niobium nitride as a capacitive anode material for advanced Li-ion hybrid capacitors with superior cycling stability. *Journal of Materials Chemistry A*, **2016**, 4, 9760-9766	13	80
190	Synthesis of a graphene oxide□polyacrylic acid nanocomposite hydrogel and its swelling and electroresponsive properties. *RSC Advances*, **2013**, 3, 12751	3.7	77
189	Silica-grafted ionic liquids for revealing the respective charging behaviors of cations and anions in supercapacitors. *Nature Communications*, **2017**, 8, 2188	17.4	73
188	Watchband-Like Supercapacitors with Body Temperature Inducible Shape Memory Ability. *Advanced Energy Materials*, **2016**, 6, 1600763	21.8	73
187	Three-Dimensional Graphene/Polyaniline Composite Hydrogel as Supercapacitor Electrode. *Journal of the Electrochemical Society*, **2012**, 159, A1702-A1709	3.9	72
186	Preparation and characterization of electrochemically deposited carbon nitride films on silicon substrate. *Journal Physics D: Applied Physics*, **2004**, 37, 907-913	3	72
185	A sodium perchlorate-based hybrid electrolyte with high salt-to-water molar ratio for safe 2.5 V carbon-based supercapacitor. *Energy Storage Materials*, **2019**, 23, 603-609	19.4	71
184	Morphology Engineering of Co3O4 Nanoarrays as Free-Standing Catalysts for Lithium-Oxygen Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 23713-20	9.5	70
183	Synthesis of fluorine-doped multi-layered graphene sheets by arc-discharge. *RSC Advances*, **2012**, 2, 6761	3.7	69
182	The Charge Storage Mechanisms of 2D Cation-Intercalated Manganese Oxide in Different Electrolytes. *Advanced Energy Materials*, **2019**, 9, 1802707	21.8	67
181	Characterization of hydrogenated diamond-like carbon films electrochemically deposited on a silicon substrate. *Journal Physics D: Applied Physics*, **2004**, 37, 2416-2424	3	66
180	Recent Advances in Dual-Functional Devices Integrating Solar Cells and Supercapacitors. *Solar Rrl*, **2017**, 1, 1700002	7.1	64

179	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. *ACS Applied Materials & Interfaces*, **2017**, 9, 668-676	9.5	64
178	Activated carbon produced from paulownia sawdust for high-performance CO2 sorbents. *Chinese Chemical Letters*, **2014**, 25, 929-932	8.1	63
177	Magnetic and electrochemical properties of CuFe2O4 hollow fibers fabricated by simple electrospinning and direct annealing. *CrystEngComm*, **2012**, 14, 5879	3.3	62
176	Hierarchically porous and nitrogen, sulfur-codoped graphene-like microspheres as a high capacity anode for lithium ion batteries. *Chemical Communications*, **2015**, 51, 2134-7	5.8	61
175	Engineering the electrochemical capacitive properties of graphene sheets in ionic-liquid electrolytes by correct selection of anions. *ChemSusChem*, **2014**, 7, 3053-62	8.3	61
174	Polyelectrolyte functionalization of graphene nanosheets as support for platinum nanoparticles and their applications to methanol oxidation. *Electrochimica Acta*, **2012**, 59, 429-434	6.7	60
173	Adjusting electrode initial potential to obtain high-performance asymmetric supercapacitor based on porous vanadium pentoxide nanotubes and activated carbon nanorods. *Journal of Power Sources* , **2015**, 279, 358-364	8.9	57
172	Optimization of Organic/Water Hybrid Electrolytes for High-Rate Carbon-Based Supercapacitor. *Advanced Functional Materials*, **2019**, 29, 1904136	15.6	56
171	Enhancement of field emission and photoluminescence properties of graphene-SnO2 composite nanostructures. *ACS Applied Materials & Interfaces*, **2011**, 3, 4299-305	9.5	56
170	Bean pod-like Si@dopamine-derived amorphous carbon@N-doped graphene nanosheet scrolls for high performance lithium storage. *Journal of Materials Chemistry A*, **2016**, 4, 10948-10955	13	55
169	Recent Advances of Cellulose-Based Materials and Their Promising Application in Sodium-Ion Batteries and Capacitors. *Small*, **2018**, 14, e1802444	11	55
168	Study on field emission and photoluminescence properties of ZnO/graphene hybrids grown on Si substrates. *Materials Chemistry and Physics*, **2012**, 133, 405-409	4.4	54
167	Coupling effect between ultra-small Mn 3 O 4 nanoparticles and porous carbon microrods for hybrid supercapacitors. *Energy Storage Materials*, **2017**, 6, 53-60	19.4	54
166	Electrochemical behavior of graphene nanosheets in alkylimidazolium tetrafluoroborate ionic liquid electrolytes: influences of organic solvents and the alkyl chains. *Journal of Materials Chemistry*, **2011**, 21, 13205		54
165	The Applications of Water-in-Salt Electrolytes in Electrochemical Energy Storage Devices. *Advanced Functional Materials*, **2021**, 31, 2006749	15.6	54
164	Mesoporous Ni-doped MnCo2O4 hollow nanotubes as an anode material for sodium ion batteries with ultralong life and pseudocapacitive mechanism. *Journal of Materials Chemistry A*, **2016**, 4, 18392-18400	13	53
163	CeO-Decorated Hierarchical NiCoS Hollow Nanotubes Arrays for Enhanced Oxygen Evolution Reaction Electrocatalysis. *ACS Applied Materials & Interfaces*, **2019**, 11, 39841-39847	9.5	53
162	Ordered Mesoporous Silicoboron Carbonitride Materials via Preceramic Polymer Nanocasting. *Chemistry of Materials*, **2008**, 20, 6325-6334	9.6	52

161	Carbon encapsulated RuO2 nano-dots anchoring on graphene as an electrode for asymmetric supercapacitors with ultralong cycle life in an ionic liquid electrolyte. *Journal of Materials Chemistry A*, **2016**, 4, 8180-8189	13	52
160	TiO2 embedded in carbon submicron-tablets: synthesis from a metal-organic framework precursor and application as a superior anode in lithium-ion batteries. *Chemical Communications*, **2015**, 51, 11370-3	5.8	51
159	The controlled growth of porous δ-MnO2 nanosheets on carbon fibers as a bi-functional catalyst for rechargeable lithium–oxygen batteries. *Journal of Materials Chemistry A*, **2015**, 3, 10811-10818	13	50
158	Recent advances in dual-carbon based electrochemical energy storage devices. *Nano Energy*, **2020**, 72, 104728	17.1	50
157	NH3 and HCl sensing characteristics of polyaniline nanofibers deposited on commercial ceramic substrates using interfacial polymerization. *Synthetic Metals*, **2010**, 160, 2452-2458	3.6	50
156	The roles of graphene in advanced Li-ion hybrid supercapacitors. *Journal of Energy Chemistry*, **2018**, 27, 43-56	12	50
155	Sprinkling MnFe2O4 quantum dots on nitrogen-doped graphene sheets: the formation mechanism and application for high-performance supercapacitor electrodes. *Journal of Materials Chemistry A*, **2018**, 6, 9997-10007	13	49
154	Realizing the Embedded Growth of Large LiO Aggregations by Matching Different Metal Oxides for High-Capacity and High-Rate Lithium Oxygen Batteries. *Advanced Science*, **2017**, 4, 1700172	13.6	48
153	All-solid-state flexible microsupercapacitor based on two-dimensional titanium carbide. *Chinese Chemical Letters*, **2016**, 27, 1586-1591	8.1	48
152	Controllable synthesis of Mn3O4 nanodots@nitrogen-doped graphene and its application for high energy density supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 5523-5531	13	47
151	Three-dimensional hierarchical self-supported NiCo2O4/carbon nanotube core–shell networks as high performance supercapacitor electrodes. *RSC Advances*, **2015**, 5, 7976-7985	3.7	47
150	Surface amorphization and deoxygenation of graphene oxide paper by Ti ion implantation. *Carbon*, **2011**, 49, 3141-3147	10.4	47
149	The hysteresis phenomenon of the field emission from the graphene film. *Applied Physics Letters*, **2011**, 99, 173104	3.4	46
148	Highly enhanced energy density of supercapacitors at extremely low temperatures. *Journal of Power Sources*, **2019**, 423, 271-279	8.9	42
147	Three-dimensional carbon framework as a promising anode material for high performance sodium ion storage devices. *Chemical Engineering Journal*, **2018**, 353, 453-459	14.7	41
146	A moisture absorbing gel electrolyte enables aqueous and flexible supercapacitors operating at high temperatures. *Journal of Materials Chemistry A*, **2019**, 7, 20398-20404	13	41
145	Facile preparation of large-scale graphene nanoscrolls from graphene oxide sheets by cold quenching in liquid nitrogen. *Carbon*, **2014**, 79, 470-477	10.4	41
144	Fabrication of TiN nanorods by electrospinning and their electrochemical properties. *Journal of Solid State Chemistry*, **2011**, 184, 1333-1338	3.3	41

143	Fabrication of Three-Dimensional ZnO□arbon Nanotube (CNT) Hybrids Using Self-Assembled CNT Micropatterns as Framework. *Journal of Physical Chemistry C*, **2007**, 111, 17254-17259	3.8	41
142	Synthesis of Porous □MnO2 Submicron Tubes as Highly Efficient Electrocatalyst for Rechargeable Li-O2 Batteries. *ChemSusChem*, **2015**, 8, 1972-9	8.3	39
141	Facile synthesis of Ag/GNS-g-PAA nanohybrids for antimicrobial applications. *Colloids and Surfaces B: Biointerfaces*, **2012**, 89, 147-51	6	39
140	Shape-alterable and -recoverable graphene/polyurethane bi-layered composite film for supercapacitor electrode. *Journal of Power Sources*, **2012**, 213, 350-357	8.9	37
139	Effect of deposition voltage on the microstructure of electrochemically deposited hydrogenated amorphous carbon films. *Carbon*, **2004**, 42, 3103-3108	10.4	37
138	Synthesis and magnetic properties of CoFe2O4 nanoparticles confined within mesoporous silica. *Microporous and Mesoporous Materials*, **2010**, 135, 137-142	5.3	36
137	Hybrid Aqueous/Nonaqueous Water-in-Bisalt Electrolyte Enables Safe Dual Ion Batteries. *Small*, **2020**, 16, e1905838	11	35
136	Preparation of porous BiVO4 fibers by electrospinning and their photocatalytic performance under visible light. *RSC Advances*, **2013**, 3, 20606	3.7	35
135	Water-repellency and surface free energy of a-C:H films prepared by heat-treatment of polymer precursor. *Diamond and Related Materials*, **2005**, 14, 1342-1347	3.5	35
134	PtNi Alloy Nanoparticles Supported on Polyelectrolyte Functionalized Graphene as Effective Electrocatalysts for Methanol Oxidation. *Journal of the Electrochemical Society*, **2013**, 160, F262-F268	3.9	34
133	The ethanol sensing property of magnetron sputtered ZnO thin films modified by Ag ion implantation. *Sensors and Actuators B: Chemical*, **2011**, 160, 1499-1503	8.5	34
132	Synthesis of silicon carbide nitride nanocomposite films by a simple electrochemical method. *Electrochemistry Communications*, **2006**, 8, 737-740	5.1	34
131	Towards the understanding of acetonitrile suppressing salt precipitation mechanism in a water-in-salt electrolyte for low-temperature supercapacitors. *Journal of Materials Chemistry A*, **2020**, 8, 17998-18006	13	33
130	3D high-density MXene@MnO2 microflowers for advanced aqueous zinc-ion batteries. *Journal of Materials Chemistry A*, **2020**, 8, 24635-24644	13	32
129	Facile synthesis of Co and Ce dual-doped Ni3S2 nanosheets on Ni foam for enhanced oxygen evolution reaction. *Nano Research*, **2020**, 13, 2130-2135	10	32
128	□Water in salt/ionic liquid□electrolyte for 2.8□V aqueous lithium-ion capacitor. *Science Bulletin*, **2020**, 65, 1812-1822	10.6	32
127	High Rate and Long Cycle Life of a CNT/rGO/Si Nanoparticle Composite Anode for Lithium-Ion Batteries. *Particle and Particle Systems Characterization*, **2017**, 34, 1700141	3.1	32
126	Preparation of ordered mesoporous silicon carbide monoliths via preceramic polymer nanocasting. *Microporous and Mesoporous Materials*, **2011**, 142, 754-758	5.3	32

125	Salty Ice Electrolyte with Superior Ionic Conductivity Towards Low-Temperature Aqueous Zinc Ion Hybrid Capacitors. *Advanced Functional Materials*, **2021**, 31, 2101277	15.6	32
124	Revealing the Impact of Oxygen Dissolved in Electrolytes on Aqueous Zinc-Ion Batteries. *IScience*, **2020**, 23, 100995	6.1	32
123	High-Performance and Ultra-Stable Aqueous Supercapacitors Based on a Green and Low-Cost Water-In-Salt Electrolyte. *ChemElectroChem*, **2019**, 6, 5433-5438	4.3	31
122	Multilayer hybrid films consisting of alternating graphene and titanium dioxide for high-performance supercapacitors. *Journal of Materials Chemistry C*, **2013**, 1, 1413	7.1	31
121	Temperature dependence of the field emission from the few-layer graphene film. *Applied Physics Letters*, **2011**, 99, 163103	3.4	31
120	Study of Ni-dopped MnCo2O4 Yolk-Shell Submicron-spheres with Fast Li+ Intercalation Pseudocapacitance As An Anode for High-Performance Lithium Ion Batteries. *Electrochimica Acta*, **2016**, 203, 128-135	6.7	31
119	Solar-Thermal Driven Self-Heating of Micro-Supercapacitors at Low Temperatures. *Solar Rrl*, **2018**, 2, 1800223	7.1	31
118	Insight into the formation mechanism of graphene quantum dots and the size effect on their electrochemical behaviors. *Physical Chemistry Chemical Physics*, **2015**, 17, 14028-35	3.6	30
117	Electrospinning Synthesis of Mesoporous MnCoNiO@Double-Carbon Nanofibers for Sodium-Ion Battery Anodes with Pseudocapacitive Behavior and Long Cycle Life. *ACS Applied Materials & Interfaces*, **2016**, 8, 34342-34352	9.5	30
116	Effect of surface area and heteroatom of porous carbon materials on electrochemical capacitance in aqueous and organic electrolytes. *Science China Chemistry*, **2014**, 57, 1570-1578	7.9	30
115	Synthesis of MXene-supported layered MoS2 with enhanced electrochemical performance for Mg batteries. *Chinese Chemical Letters*, **2018**, 29, 1313-1316	8.1	29
114	Graphene nanosheets supported hollow Pt&CoSn(OH)6 nanospheres as a catalyst for methanol electro-oxidation. *Journal of Power Sources*, **2012**, 205, 239-243	8.9	29
113	Supercapacitors based on graphene nanosheets using different non-aqueous electrolytes. *New Journal of Chemistry*, **2013**, 37, 2186	3.6	29
112	Synthesis of worm-like PtCo nanotubes for methanol oxidation. *Electrochemistry Communications*, **2013**, 30, 71-74	5.1	29
111	Synthesis and electrochemical properties of graphene supported PtNi nanodendrites. *Electrochemistry Communications*, **2012**, 23, 72-75	5.1	29
110	Rolling up MXene sheets into scrolls to promote their anode performance in lithium-ion batteries. *Journal of Energy Chemistry*, **2020**, 46, 256-263	12	29
109	Crossed carbon skeleton enhances the electrochemical performance of porous silicon nanowires for lithium ion battery anode. *Electrochimica Acta*, **2018**, 280, 86-93	6.7	29
108	All-climate aqueous supercapacitor enabled by a deep eutectic solvent electrolyte based on salt hydrate. *Journal of Energy Chemistry*, **2020**, 49, 198-204	12	28

107	Hierarchical porous activated carbon produced from spinach leaves as an electrode material for an electric double layer capacitor. *New Carbon Materials*, **2014**, 29, 209-215	4.4	28
106	Facile synthesis of ordered mesoporous □alumina monoliths via polymerization-based gel-casting. *Microporous and Mesoporous Materials*, **2011**, 138, 40-44	5.3	28
105	Recent advances in anode materials for sodium - and potassium-ion hybrid capacitors. *Current Opinion in Electrochemistry*, **2019**, 18, 1-8	7.2	27
104	Multilayer assembly of positively charged polyelectrolyte and negatively charged glucose oxidase on a 3D Nafion network for detecting glucose. *Biosensors and Bioelectronics*, **2007**, 22, 3256-60	11.8	27
103	Morphology and crystallinity-controlled synthesis of MnO2 hierarchical nanostructures and their application in lithium ion batteries. *CrystEngComm*, **2014**, 16, 10476-10484	3.3	26
102	Fabrication of Cu-doped cerium oxide nanofibers via electrospinning for preferential CO oxidation. *Catalysis Communications*, **2011**, 12, 514-518	3.2	26
101	Engineering of silicon-based ceramic fibers: Novel SiTaC(O) ceramic fibers prepared from polytantalosilane. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 7086-7091	5.3	26
100	The Origin of Electrochemical Actuation of MnO2/Ni Bilayer Film Derived by Redox Pseudocapacitive Process. *Advanced Functional Materials*, **2019**, 29, 1806778	15.6	26
99	Potassium-Ion Batteries: Disordered, Large Interlayer Spacing, and Oxygen-Rich Carbon Nanosheets for Potassium Ion Hybrid Capacitor (Adv. Energy Mater. 19/2019). *Advanced Energy Materials*, **2019**, 9, 1970069	21.8	25
98	PtFe nanotubes/graphene hybrid: Facile synthesis and its electrochemical properties. *International Journal of Hydrogen Energy*, **2013**, 38, 13011-13016	6.7	25
97	Effects of selenization conditions on microstructure evolution in solution processed Cu2ZnSn(S,Se)4 solar cells. *Solar Energy Materials and Solar Cells*, **2019**, 195, 274-279	6.4	24
96	Comparison between metal ion and polyelectrolyte functionalization for electrophoretic deposition of graphene nanosheet films. *RSC Advances*, **2012**, 2, 9665	3.7	24
95	Nanotube-like hard carbon as high-performance anode material for sodium ion hybrid capacitors. *Science China Materials*, **2018**, 61, 285-295	7.1	24
94	Mutually Enhanced Capacitances in Carbon Nanofiber/Cobalt Hydroxide Composite Paper for Supercapacitor. *Journal of the Electrochemical Society*, **2012**, 159, A485-A491	3.9	23
93	Fabrication of polymer-converted carbon films containing Ag, Pd nanoparticles. *Nanotechnology*, **2004**, 15, 1759-1762	3.4	23
92	A Safe, High-Performance, and Long-Cycle Life Zinc-Ion Hybrid Capacitor Based on Three-Dimensional Porous Activated Carbon. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2020**, 36, 1904050-0	3.8	23
91	Friction and wear properties of graphene oxide/ultrahigh-molecular-weight polyethylene composites under the lubrication of deionized water and normal saline solution. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	22
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