

Xiao-Gang Zhang

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#	Paper	IF	Citations
4 ²⁴	Ultrathin Mesoporous NiCo ₂ O ₄ Nanosheets Supported on Ni Foam as Advanced Electrodes for Supercapacitors. <i>Advanced Functional Materials</i> , 2012 , 22, 4592-4597	15.6	1385
4 ²³	Formation of nickel cobalt sulfide ball-in-ball hollow spheres with enhanced electrochemical pseudocapacitive properties. <i>Nature Communications</i> , 2015 , 6, 6694	17.4	941
4 ²²	Facile synthesis and self-assembly of hierarchical porous NiO nano/micro spherical superstructures for high performance supercapacitors. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5772		77 ⁰
4 ²¹	Growth of ultrathin mesoporous Co ₃ O ₄ nanosheet arrays on Ni foam for high-performance electrochemical capacitors. <i>Energy and Environmental Science</i> , 2012 , 5, 7883	35.4	725
4 ²⁰	Mesoporous NiCo ₂ O ₄ Nanowire Arrays Grown on Carbon Textiles as Binder-Free Flexible Electrodes for Energy Storage. <i>Advanced Functional Materials</i> , 2014 , 24, 2630-2637	15.6	663
4 ¹⁹	NiCo ₂ S ₄ Nanosheets Grown on Nitrogen-Doped Carbon Foams as an Advanced Electrode for Supercapacitors. <i>Advanced Energy Materials</i> , 2015 , 5, 1400977	21.8	633
4 ¹⁸	Self-templated formation of uniform NiCo ₂ O ₄ hollow spheres with complex interior structures for lithium-ion batteries and supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1868-72	16.4	618
4 ¹⁷	Biomass-derived porous carbon materials with sulfur and nitrogen dual-doping for energy storage. <i>Green Chemistry</i> , 2015 , 17, 1668-1674	10	481
4 ¹⁶	Biomass derived carbon for energy storage devices. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2411-2428 ₁₃		474
4 ¹⁵	Controllable synthesis of mesoporous Co ₃ O ₄ nanostructures with tunable morphology for application in supercapacitors. <i>Chemistry - A European Journal</i> , 2009 , 15, 5320-6	4.8	47 ⁰
4 ¹⁴	Hydrogenated Li ₄ Ti ₅ O ₁₂ nanowire arrays for high rate lithium ion batteries. <i>Advanced Materials</i> , 2012 , 24, 6502-6	24	411
4 ¹³	Flexible Hybrid Paper Made of Monolayer Co ₃ O ₄ Microsphere Arrays on rGO/CNTs and Their Application in Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2012 , 22, 2560-2566	15.6	336
4 ¹²	Li ₄ Ti ₅ O ₁₂ Nanoparticles Embedded in a Mesoporous Carbon Matrix as a Superior Anode Material for High Rate Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2012 , 2, 691-698	21.8	297
4 ¹¹	Exploring metal organic frameworks for energy storage in batteries and supercapacitors. <i>Materials Today</i> , 2017 , 20, 191-209	21.8	290
4 ¹⁰	Self-Sacrifice Template Fabrication of Hierarchical Mesoporous Bi-Component-Active ZnO/ZnFe ₂ O ₄ Sub-Microcubes as Superior Anode Towards High-Performance Lithium-Ion Battery. <i>Advanced Functional Materials</i> , 2015 , 25, 238-246	15.6	286
4 ⁰⁹	Facile synthesis of hierarchically porous Li ₄ Ti ₅ O ₁₂ microspheres for high rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6998		249
4 ⁰⁸	Sulfur embedded in metal organic framework-derived hierarchically porous carbon nanoplates for high performance lithium-sulfur battery. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4490	13	245

407	High performance lithium-sulfur batteries: advances and challenges. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12662-12676	13	235
406	Hierarchical porous carbons with layer-by-layer motif architectures from confined soft-template self-assembly in layered materials. <i>Nature Communications</i> , 2017 , 8, 15717	17.4	231
405	A flexible graphene/multiwalled carbon nanotube film as a high performance electrode material for supercapacitors. <i>Electrochimica Acta</i> , 2011 , 56, 5115-5121	6.7	230
404	Flexible Sodium-Ion Pseudocapacitors Based on 3D Na ₂ Ti ₃ O ₇ Nanosheet Arrays/Carbon Textiles Anodes. <i>Advanced Functional Materials</i> , 2016 , 26, 3703-3710	15.6	224
403	Flexible Films Derived from Electrospun Carbon Nanofibers Incorporated with Co ₃ O ₄ Hollow Nanoparticles as Self-Supported Electrodes for Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2013 , 23, 3909-3915	15.6	215
402	Facile growth of mesoporous Co ₃ O ₄ nanowire arrays on Ni foam for high performance electrochemical capacitors. <i>Journal of Power Sources</i> , 2012 , 203, 250-256	8.9	213
401	Facile template-free synthesis of ultralayered mesoporous nickel cobaltite nanowires towards high-performance electrochemical capacitors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16084		213
400	Hollow mesoporous hetero-NiCo ₂ S ₄ /Co ₉ S ₈ submicro-spindles: unusual formation and excellent pseudocapacitance towards hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 133-144	13	210
399	Encapsulating sulfur into hierarchically ordered porous carbon as a high-performance cathode for lithium-sulfur batteries. <i>Chemistry - A European Journal</i> , 2013 , 19, 1013-9	4.8	201
398	Self-Assembled Nb ₂ O ₅ Nanosheets for High Energy/High Power Sodium Ion Capacitors. <i>Chemistry of Materials</i> , 2016 , 28, 5753-5760	9.6	201
397	High-Performance Blue/Ultraviolet-Light-Sensitive ZnSe-Nanobelt Photodetectors. <i>Advanced Materials</i> , 2009 , 21, 5016-5021	24	199
396	Preparation and enhanced capacitance of core-shell polypyrrole/polyaniline composite electrode for supercapacitors. <i>Journal of Power Sources</i> , 2008 , 176, 403-409	8.9	198
395	Prussian blue analogues: a new class of anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5852-5857	13	197
394	An advanced high-energy sodium ion full battery based on nanostructured Na ₂ Ti ₃ O ₇ /VOPO ₄ layered materials. <i>Energy and Environmental Science</i> , 2016 , 9, 3399-3405	35.4	196
393	Design and Tailoring of a Three-Dimensional TiO ₂ /Graphene/Carbon Nanotube Nanocomposite for Fast Lithium Storage. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 3096-3101	6.4	193
392	Confined Self-Assembly in Two-Dimensional Interlayer Space: Monolayered Mesoporous Carbon Nanosheets with In-Plane Orderly Arranged Mesopores and a Highly Graphitized Framework. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2894-2898	16.4	188
391	General strategy for designing core-shell nanostructured materials for high-power lithium ion batteries. <i>Nano Letters</i> , 2012 , 12, 5673-8	11.5	183
390	In situ synthesis of high-loading Li ₄ Ti ₅ O ₁₂ -graphene hybrid nanostructures for high rate lithium ion batteries. <i>Nanoscale</i> , 2011 , 3, 572-4	7.7	177

389	Enhanced high-current capacitive behavior of graphene/CoAl-layered double hydroxide composites as electrode material for supercapacitors. <i>Journal of Power Sources</i> , 2012 , 199, 395-401	8.9	175
388	Chemically tailoring the nanostructure of graphene nanosheets to confine sulfur for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1096-1101	13	170
387	In situ growth of Li ₄ Ti ₅ O ₁₂ on multi-walled carbon nanotubes: novel coaxial nanocables for high rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 761-767		170
386	Monodisperse Metallic NiCoSe ₂ Hollow Sub-Microspheres: Formation Process, Intrinsic Charge-Storage Mechanism, and Appealing Pseudocapacitance as Highly Conductive Electrode for Electrochemical Supercapacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1705921	15.6	169
385	Polypyrrole/carbon nanotube nanocomposite enhanced the electrochemical capacitance of flexible graphene film for supercapacitors. <i>Journal of Power Sources</i> , 2012 , 197, 319-324	8.9	169
384	Electrochemical reduction of CO ₂ on RuO ₂ /TiO ₂ nanotubes composite modified Pt electrode. <i>Electrochimica Acta</i> , 2005 , 50, 3576-3580	6.7	167
383	Hydrothermal synthesis of Co ₃ O ₄ microspheres as anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2008 , 53, 2507-2513	6.7	166
382	3D porous layered double hydroxides grown on graphene as advanced electrochemical pseudocapacitor materials. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9046	13	165
381	Electrochemical capacitance of NiO/Ru _{0.35} V _{0.65} O ₂ asymmetric electrochemical capacitor. <i>Journal of Power Sources</i> , 2007 , 173, 606-612	8.9	162
380	Facile synthesis of N-doped carbon-coated Li ₄ Ti ₅ O ₁₂ microspheres using polydopamine as a carbon source for high rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7270	13	158
379	2D MXene/SnS ₂ composites as high-performance anodes for sodium ion batteries. <i>Chemical Engineering Journal</i> , 2018 , 334, 932-938	14.7	157
378	Improvement of the capacitive performances for Co-Al layered double hydroxide by adding hexacyanoferrate into the electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 2195-202	3.6	157
377	Novel Potassium-Ion Hybrid Capacitor Based on an Anode of KTiO Microscaffolds. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15542-15547	9.5	155
376	An efficient reduction route for the production of PdPt nanoparticles anchored on graphene nanosheets for use as durable oxygen reduction electrocatalysts. <i>Carbon</i> , 2012 , 50, 265-274	10.4	153
375	Pseudocapacitive behaviours of Na ₂ Ti ₃ O ₇ @CNT coaxial nanocables for high-performance sodium-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21277-21283	13	150
374	Fabrication and electrochemical capacitance of hierarchical graphene/polyaniline/carbon nanotube ternary composite film. <i>Electrochimica Acta</i> , 2011 , 56, 9224-9232	6.7	150
373	Porous nitrogen-doped carbon nanotubes derived from tubular polypyrrole for energy-storage applications. <i>Chemistry - A European Journal</i> , 2013 , 19, 12306-12	4.8	149
372	Achieving High-Energy-High-Power Density in a Flexible Quasi-Solid-State Sodium Ion Capacitor. <i>Nano Letters</i> , 2016 , 16, 5938-43	11.5	148

371	Polyaniline nanofibers as the electrode material for supercapacitors. <i>Materials Chemistry and Physics</i> , 2008 , 112, 127-131	4.4	147
370	Preparation and properties of Co ₃ O ₄ nanorods as supercapacitor material. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 1871-1876	2.6	141
369	Hierarchically porous carbon encapsulating sulfur as a superior cathode material for high performance lithium-sulfur batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 194-9	9.5	140
368	Polymer-assisted synthesis of a 3D hierarchical porous network-like spinel NiCo ₂ O ₄ framework towards high-performance electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11145	13	140
367	Pseudocapacitive materials for electrochemical capacitors: from rational synthesis to capacitance optimization. <i>National Science Review</i> , 2017 , 4, 71-90	10.8	138
366	High rate capability and superior cycle stability of a flower-like Sb ₂ S ₃ anode for high-capacity sodium ion batteries. <i>Nanoscale</i> , 2015 , 7, 3309-15	7.7	137
365	Synthesis of NASICON-type structured NaTi ₂ (PO ₄) ₃ -graphene nanocomposite as an anode for aqueous rechargeable Na-ion batteries. <i>Nanoscale</i> , 2014 , 6, 6328-34	7.7	135
364	Microwave-assisted synthesis and electrochemical capacitance of polyaniline/multi-wall carbon nanotubes composite. <i>Electrochemistry Communications</i> , 2007 , 9, 2859-2862	5.1	131
363	Preparation of urchinlike NiO nanostructures and their electrochemical capacitive behaviors. <i>Materials Research Bulletin</i> , 2006 , 41, 620-627	5.1	131
362	Conductive graphene oxide-polyacrylic acid (GOPAA) binder for lithium-sulfur battery. <i>Nano Energy</i> , 2017 , 31, 568-574	17.1	124
361	Synthesis and utilization of RuO ₂ ·xH ₂ O nanodots well dispersed on poly(sodium 4-styrene sulfonate) functionalized multi-walled carbon nanotubes for supercapacitors. <i>Journal of Materials Chemistry</i> , 2009 , 19, 246-252		124
360	Flexible and anti-freezing quasi-solid-state zinc ion hybrid supercapacitors based on pencil shavings derived porous carbon. <i>Energy Storage Materials</i> , 2020 , 28, 307-314	19.4	122
359	Studies on Me/Al-layered double hydroxides (Me = Ni and Co) as electrode materials for electrochemical capacitors. <i>Electrochimica Acta</i> , 2004 , 49, 3137-3141	6.7	118
358	Nasicon-Type Surface Functional Modification in Core-Shell LiNiMnCoO@NaTi(PO) Cathode Enhances Its High-Voltage Cycling Stability and Rate Capacity toward Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5498-5510	9.5	115
357	An All-Stretchable-Component Sodium-Ion Full Battery. <i>Advanced Materials</i> , 2017 , 29, 1700898	24	114
356	Mesoporous NiO with various hierarchical nanostructures by quasi-nanotubes/nanowires/nanorods self-assembly: controllable preparation and application in supercapacitors. <i>CrystEngComm</i> , 2011 , 13, 626-632	3.3	113
355	TiNb ₂ O ₇ nanoparticles assembled into hierarchical microspheres as high-rate capability and long-cycle-life anode materials for lithium ion batteries. <i>Nanoscale</i> , 2015 , 7, 619-24	7.7	112
354	Metal-free energy storage systems: combining batteries with capacitors based on a methylene blue functionalized graphene cathode. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19668-19675	13	112

353	Encapsulating sulfur into mesoporous TiO ₂ host as a high performance cathode for lithium-sulfur battery. <i>Electrochimica Acta</i> , 2013 , 107, 78-84	6.7	112
352	Electrochemical capacitance of polypyrrole nanowire prepared by using cetyltrimethylammonium bromide (CTAB) as soft template. <i>Materials Chemistry and Physics</i> , 2007 , 101, 367-371	4.4	112
351	Pd nanoparticles supported on functionalized multi-walled carbon nanotubes (MWCNTs) and electrooxidation for formic acid. <i>Journal of Power Sources</i> , 2008 , 175, 26-32	8.9	111
350	Enhanced electrochemical stability and charge storage of MnO ₂ /carbon nanotubes composite modified by polyaniline coating layer in acidic electrolytes. <i>Electrochimica Acta</i> , 2008 , 53, 7039-7047	6.7	110
349	One-pot synthesis of graphene-supported monodisperse Pd nanoparticles as catalyst for formic acid electro-oxidation. <i>Scientific Reports</i> , 2014 , 4, 4501	4.9	109
348	Hierarchical NiCo ₂ O ₄ nanosheets/nitrogen doped graphene/carbon nanotube film with ultrahigh capacitance and long cycle stability as a flexible binder-free electrode for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 689-698	13	109
347	Template-engaged synthesis of uniform mesoporous hollow NiCo ₂ O ₄ sub-microspheres towards high-performance electrochemical capacitors. <i>RSC Advances</i> , 2013 , 3, 18573	3.7	106
346	Growth of 3D SnO ₂ nanosheets on carbon cloth as a binder-free electrode for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15057-15067	13	106
345	Lysine-assisted hydrothermal synthesis of urchin-like ordered arrays of mesoporous Co(OH) ₂ nanowires and their application in electrochemical capacitors. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10809		105
344	Preparation and properties of polystyrene nanocomposites with graphite oxide and graphene as flame retardants. <i>Journal of Materials Science</i> , 2013 , 48, 4214-4222	4.3	104
343	Graphene Caging Silicon Particles for High-Performance Lithium-Ion Batteries. <i>Small</i> , 2018 , 14, e1800635	11	104
342	Zinc cobalt sulfide nanosheets grown on nitrogen-doped graphene/carbon nanotube film as a high-performance electrode for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11256-11263	13	103
341	Synthesis and electrochemical capacitance of core-shell poly(3,4-ethylenedioxythiophene)/poly(sodium 4-styrenesulfonate)-modified multiwalled carbon nanotube nanocomposites. <i>Electrochimica Acta</i> , 2009 , 54, 2335-2341	6.7	103
340	Advanced Energy-Storage Architectures Composed of Spinel Lithium Metal Oxide Nanocrystal on Carbon Textiles. <i>Advanced Energy Materials</i> , 2013 , 3, 1484-1489	21.8	101
339	Rational design of void-involved Si@TiO ₂ nanospheres as high-performance anode material for lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6497-503	9.5	100
338	Preparation and electrochemistry of one-dimensional nanostructured MnO ₂ /PPy composite for electrochemical capacitor. <i>Applied Surface Science</i> , 2010 , 256, 4339-4343	6.7	100
337	Interface synthesis of mesoporous MnO ₂ and its electrochemical capacitive behaviors. <i>Journal of Colloid and Interface Science</i> , 2008 , 322, 545-50	9.3	94
336	Electrochemically induced transformation of NiS nanoparticles into Ni(OH) ₂ in KOH aqueous solution toward electrochemical capacitors. <i>Electrochimica Acta</i> , 2011 , 56, 7454-7459	6.7	93

335	MoS ₂ -Nanosheet-Decorated 2D Titanium Carbide (MXene) as High-Performance Anodes for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2017 , 4, 1560-1565	4.3	92
334	A sustainable route from corn stalks to N, P-dual doping carbon sheets toward high performance sodium-ion batteries anode. <i>Carbon</i> , 2018 , 130, 664-671	10.4	91
333	Investigation of Nonionic Surfactant Dynol-604 Based Reverse Microemulsions Formed in Supercritical Carbon Dioxide. <i>Langmuir</i> , 2001 , 17, 8040-8043	4	91
332	Mesoporous Silicon Anodes by Using Polybenzimidazole Derived Pyrrolic N-Enriched Carbon toward High-Energy Li-Ion Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 1279-1287	20.1	90
331	Few-Layer MXenes Delaminated via High-Energy Mechanical Milling for Enhanced Sodium-Ion Batteries Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39610-39617	9.5	90
330	Ultra-fast NH ₄ ⁺ Storage: Strong H Bonding between NH ₄ ⁺ and Bi-layered V ₂ O ₅ . <i>Chem</i> , 2019 , 5, 1537-1556	16.2	90
329	Facile interfacial synthesis of flower-like hierarchical α-MnO ₂ sub-microspherical superstructures constructed by two-dimension mesoporous nanosheets and their application in electrochemical capacitors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16035		90
328	High capacitive performance of nanostructured MnNiCo oxide composites for supercapacitor. <i>Materials Research Bulletin</i> , 2008 , 43, 1119-1125	5.1	89
327	Bacterial-cellulose-derived interconnected meso-microporous carbon nanofiber networks as binder-free electrodes for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2017 , 352, 34-41	8.9	88
326	Graphene/carbon nanotube composite anode for high performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1498-1503	13	88
325	Nitrogen-doped carbon coated Li ₄ Ti ₅ O ₁₂ nanocomposite: Superior anode materials for rechargeable lithium ion batteries. <i>Journal of Power Sources</i> , 2013 , 221, 122-127	8.9	88
324	Ultrasonic synthesis of highly dispersed Pt nanoparticles supported on MWCNTs and their electrocatalytic activity towards methanol oxidation. <i>Carbon</i> , 2007 , 45, 2424-2432	10.4	88
323	Absorption mechanism of carbon-nanotube paper-titanium dioxide as a multifunctional barrier material for lithium-sulfur batteries. <i>Nano Research</i> , 2015 , 8, 3066-3074	10	86
322	Enhanced cycling performance and electrochemical reversibility of a novel sulfur-impregnated mesoporous hollow TiO ₂ sphere cathode for advanced Li-S batteries. <i>Nanoscale</i> , 2013 , 5, 5743-6	7.7	85
321	Preparation and characterization of pyrrole/aniline copolymer nanofibrils using the template-synthesis method. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 3002-3007	2.9	84
320	Three-dimensionally ordered porous TiNb ₂ O ₇ nanotubes: a superior anode material for next generation hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16785-16790	13	83
319	Preparation and electrochemical capacitance of hierarchical graphene/polypyrrole/carbon nanotube ternary composites. <i>Electrochimica Acta</i> , 2012 , 69, 160-166	6.7	83
318	Effect of calcination temperature on the morphology and electrochemical properties of Co ₃ O ₄ for lithium-ion battery. <i>Electrochimica Acta</i> , 2009 , 54, 4180-4185	6.7	83

- 317 Preparation of ZnCo₂O₄ nanoflowers on a 3D carbon nanotube/nitrogen-doped graphene film and its electrochemical capacitance. *Journal of Materials Chemistry A*, **2015**, 3, 21891-21898 13 82
- 316 Self-sacrifice Template Formation of Hollow Hetero-Ni₇S₆/Co₃S₄ Nanoboxes with Intriguing Pseudo-capacitance for High-performance Electrochemical Capacitors. *Scientific Reports*, **2016**, 6, 20973 4.9 82
- 315 Soft template synthesis of mesoporous Co₃O₄/RuO₂·xH₂O composites for electrochemical capacitors. *Electrochimica Acta*, **2008**, 53, 3296-3304 6.7 81
- 314 Highly enhanced lithium storage capability of LiNi_{0.5}Mn_{1.5}O₄ by coating with Li₂TiO₃ for Li-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 18256-18262 13 80
- 313 Large-scale Co₃O₄ nanoparticles growing on nickel sheets via a one-step strategy and their ultra-highly reversible redox reaction toward supercapacitors. *Journal of Materials Chemistry*, **2011**, 21, 18183 80
- 312 Simple preparation of PdPt nanoalloy catalysts for methanol-tolerant oxygen reduction. *Journal of Power Sources*, **2010**, 195, 1046-1050 8.9 80
- 311 Flexible metal-organic frameworks as superior cathodes for rechargeable sodium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 16590-16597 13 79
- 310 Graphene nanosheets-polypyrrole hybrid material as a highly active catalyst support for formic acid electro-oxidation. *Nanoscale*, **2011**, 3, 3277-84 7.7 79
- 309 Mesoporous NaTi₂(PO₄)₃/CMK-3 nanohybrid as anode for long-life Na-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 20659-20666 13 76
- 308 Mesoporous N-containing carbon nanosheets towards high-performance electrochemical capacitors. *Carbon*, **2013**, 64, 141-149 10.4 76
- 307 Three-dimensional coherent titania-mesoporous carbon nanocomposite and its lithium-ion storage properties. *ACS Applied Materials & Interfaces*, **2012**, 4, 2985-92 9.5 76
- 306 Preparation of activated carbon from waste *Camellia oleifera* shell for supercapacitor application. *Journal of Solid State Electrochemistry*, **2012**, 16, 2179-2186 2.6 76
- 305 Nanosheets assembled layered MoS₂/MXene as high performance anode materials for potassium ion batteries. *Journal of Power Sources*, **2020**, 449, 227481 8.9 76
- 304 Prussian Blue Analogue with Fast Kinetics Through Electronic Coupling for Sodium Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 20306-20312 9.5 75
- 303 Novel template-free solvothermal synthesis of mesoporous Li₄Ti₅O₁₂-C microspheres for high power lithium ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 14414 75
- 302 A thin multifunctional coating on a separator improves the cyclability and safety of lithium sulfur batteries. *Chemical Science*, **2017**, 8, 6619-6625 9.4 74
- 301 A novel coronene//Na₂Ti₃O₇ dual-ion battery. *Nano Energy*, **2017**, 40, 233-239 17.1 74
- 300 Electrochemical performance of CoAl layered double hydroxide nanosheets mixed with multiwall carbon nanotubes. *Journal of Solid State Electrochemistry*, **2008**, 12, 1129-1134 2.6 74

299	Ultralong SrLi ₂ Ti ₆ O ₁₄ nanowires composed of single-crystalline nanoparticles: Promising candidates for high-power lithium ions batteries. <i>Nano Energy</i> , 2015 , 13, 18-27	17.1	73
298	Synthesis and electrochemical capacitance of mesoporous Co(OH) ₂ . <i>Materials Chemistry and Physics</i> , 2007 , 101, 148-152	4.4	73
297	A simple approach towards sulfonated multi-walled carbon nanotubes supported by Pd catalysts for methanol electro-oxidation. <i>Journal of Power Sources</i> , 2008 , 185, 801-806	8.9	73
296	Urchin-like Co ₃ O ₄ microspherical hierarchical superstructures constructed by one-dimension nanowires toward electrochemical capacitors. <i>RSC Advances</i> , 2011 , 1, 1521	3.7	72
295	The improved electrocatalytic activity of palladium/graphene nanosheets towards ethanol oxidation by tin oxide. <i>Electrochimica Acta</i> , 2010 , 56, 139-144	6.7	72
294	Preparation and electrochemistry of graphene nanosheets/multiwalled carbon nanotubes hybrid nanomaterials as Pd electrocatalyst support for formic acid oxidation. <i>Electrochimica Acta</i> , 2012 , 62, 242-249	6.7	71
293	Carbon coated Li ₄ Ti ₅ O ₁₂ nanorods as superior anode material for high rate lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2013 , 572, 37-42	5.7	71
292	Uniform urchin-like nickel cobaltite microspherical superstructures constructed by one-dimension nanowires and their application for electrochemical capacitors. <i>Electrochimica Acta</i> , 2012 , 81, 172-178	6.7	71
291	Enhanced photocatalytic activity of magnetic TiO ₂ photocatalyst by silver deposition. <i>Materials Letters</i> , 2005 , 59, 2194-2198	3.3	69
290	NiO-based composite electrode with RuO ₂ for electrochemical capacitors. <i>Electrochimica Acta</i> , 2004 , 49, 229-232	6.7	68
289	Anion-Exchange Formation of Hollow NiCo S Nanoboxes from Mesocrystalline Nickel Cobalt Carbonate Nanocubes towards Enhanced Pseudocapacitive Properties. <i>ChemPlusChem</i> , 2016 , 81, 557-563	2.8	68
288	Crumpled Nitrogen-Doped Graphene for Supercapacitors with High Gravimetric and Volumetric Performances. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22284-91	9.5	67
287	Improvement of electrochemical and thermal stability of LiFePO ₄ cathode modified by CeO ₂ . <i>Journal of Electroanalytical Chemistry</i> , 2009 , 628, 73-80	4.1	67
286	Highly stable lithium ion capacitor enabled by hierarchical polyimide derived carbon microspheres combined with 3D current collectors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23283-23291	13	66
285	Preparation of a two-dimensional flexible MnO ₂ /graphene thin film and its application in a supercapacitor. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10618-10626	13	66
284	A modified molten-salt method to prepare graphene electrode with high capacitance and low self-discharge rate. <i>Carbon</i> , 2016 , 102, 255-261	10.4	66
283	N-doped carbon foam based three-dimensional electrode architectures and asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2853-2860	13	66
282	Electrochemically Induced Phase Transformation and Charge-Storage Mechanism of Amorphous CoS _[sub x] Nanoparticles Prepared by Interface-Hydrothermal Method. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A199	3.9	66

281	Electrochemical insertion of magnesium ions into V ₂ O ₅ from aprotic electrolytes with varied water content. <i>Journal of Colloid and Interface Science</i> , 2004 , 278, 160-5	9.3	66
280	Oxygen reduction on Ag/MnO ₂ /SWNT and Ag/MnO ₂ /AB electrodes. <i>Carbon</i> , 2005 , 43, 2931-2936	10.4	66
279	High-Voltage LiNi _{0.45} Cr _{0.1} Mn _{1.45} O ₄ Cathode with Superlong Cycle Performance for Wide Temperature Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1704808	15.6	66
278	Effect of Graphene Modified Cu Current Collector on the Performance of LiTiO Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30926-30932	9.5	65
277	Fabrication of porous carbon spheres for high-performance electrochemical capacitors. <i>RSC Advances</i> , 2014 , 4, 7538	3.7	65
276	Engineering Ultrathin MoS ₂ Nanosheets Anchored on N-Doped Carbon Microspheres with Pseudocapacitive Properties for High-Performance Lithium-Ion Capacitors. <i>Small Methods</i> , 2019 , 3, 1900081	12.8	64
275	Ad hoc solid electrolyte on acidized carbon nanotube paper improves cycle life of lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 2544-2551	35.4	64
274	Highly dispersed Pd nanoparticles on covalent functional MWNT surfaces for methanol oxidation in alkaline solution. <i>Electrochemistry Communications</i> , 2009 , 11, 557-561	5.1	64
273	Template-Free Fabrication of Mesoporous Hollow ZnMn ₂ O ₄ Sub-microspheres with Enhanced Lithium Storage Capability towards High-Performance Li-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 657-663	3.1	63
272	From biomolecule to Na ₃ V ₂ (PO ₄) ₃ /nitrogen-decorated carbon hybrids: highly reversible cathodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18606-18612	13	63
271	Synthesis, characterization and electrochemical behavior of polypyrrole/carbon nanotube composites using organometallic-functionalized carbon nanotubes. <i>Applied Surface Science</i> , 2010 , 256, 2284-2288	6.7	63
270	Progress on zinc ion hybrid supercapacitors: Insights and challenges. <i>Energy Storage Materials</i> , 2020 , 31, 252-266	19.4	62
269	PAA/PEDOT:PSS as a multifunctional, water-soluble binder to improve the capacity and stability of lithium-sulfur batteries. <i>RSC Advances</i> , 2016 , 6, 40650-40655	3.7	62
268	Insights on the Proton Insertion Mechanism in the Electrode of Hexagonal Tungsten Oxide Hydrate. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11556-11559	16.4	62
267	Self-Templated Formation of Uniform NiCo ₂ O ₄ Hollow Spheres with Complex Interior Structures for Lithium-Ion Batteries and Supercapacitors. <i>Angewandte Chemie</i> , 2015 , 127, 1888-1892	3.6	61
266	A binder-free NiCoO nanosheet/3D elastic N-doped hollow carbon nanotube sponge electrode with high volumetric and gravimetric capacitances for asymmetric supercapacitors. <i>Nanoscale</i> , 2017 , 9, 16826-16835	7.7	60
265	MXene debris modified eggshell membrane as separator for high-performance lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2018 , 352, 695-703	14.7	59
264	Lamellar-structured biomass-derived phosphorus- and nitrogen-co-doped porous carbon for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2015 , 39, 9497-9503	3.6	58

263	Sodium-ion capacitors: Materials, Mechanism, and Challenges. <i>ChemSusChem</i> , 2020 , 13, 2522-2539	8.3	58
262	CdS with Various Novel Hierarchical Nanostructures by Nanobelts/Nanowires Self-Assembly: Controllable Preparation and Their Optical Properties. <i>Crystal Growth and Design</i> , 2009 , 9, 5259-5265	3.5	58
261	Raspberry-like Nanostructured Silicon Composite Anode for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18766-18773	9.5	56
260	High-performance symmetric supercapacitor based on manganese oxyhydroxide nanosheets on carbon cloth as binder-free electrodes. <i>Journal of Power Sources</i> , 2016 , 311, 121-129	8.9	56
259	Flower-like LiMnPO ₄ hierarchical microstructures assembled from single-crystalline nanosheets for lithium-ion batteries. <i>CrystEngComm</i> , 2012 , 14, 4284	3.3	55
258	Pencil Drawing Stable Interface for Reversible and Durable Aqueous Zinc-Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2006495	15.6	55
257	Progress of Nanostructured Electrode Materials for Supercapacitors. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700110	5.9	55
256	Interface miscibility induced double-capillary carbon nanofibers for flexible electric double layer capacitors. <i>Nano Energy</i> , 2016 , 28, 232-240	17.1	54
255	PEDOT coated Li ₄ Ti ₅ O ₁₂ nanorods: Soft chemistry approach synthesis and their lithium storage properties. <i>Electrochimica Acta</i> , 2014 , 129, 283-289	6.7	54
254	Nickel oxide coated on ultrasonically pretreated carbon nanotubes for supercapacitor. <i>Journal of Solid State Electrochemistry</i> , 2009 , 13, 1251-1257	2.6	54
253	Template-free synthesis of ordered mesoporous NiO/poly(sodium-4-styrene sulfonate) functionalized carbon nanotubes composite for electrochemical capacitors. <i>Nano Research</i> , 2009 , 2, 722-732	10.3	54
252	Enhanced Electrochemical Capacitance of NiO Loaded on TiO ₂ Nanotubes. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A671	3.9	54
251	A facile one-pot synthesis of TiO ₂ /nitrogen-doped reduced graphene oxide nanocomposite as anode materials for high-rate lithium-ion batteries. <i>Electrochimica Acta</i> , 2014 , 133, 209-216	6.7	53
250	A new air electrode based on carbon nanotubes and Ag/MnO ₂ for metal air electrochemical cells. <i>Carbon</i> , 2004 , 42, 3097-3102	10.4	53
249	Wacker oxidation of 1-hexene in 1-n-butyl-3-methylimidazolium hexafluorophosphate ([bmim][PF ₆]), supercritical (SC) CO ₂ , and SC CO ₂ /[bmim][PF ₆] mixed solvent. <i>New Journal of Chemistry</i> , 2002 , 26, 1246-1248	3.6	53
248	Trivalent Ti self-doped Li ₄ Ti ₅ O ₁₂ : A high performance anode material for lithium-ion capacitors. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 757, 1-7	4.1	52
247	Ammonia, a Switch for Controlling High Ionic Conductivity in Lithium Borohydride Ammoniates. <i>Joule</i> , 2018 , 2, 1522-1533	27.8	52
246	Facile hydrothermal synthesis of single crystalline TiOF ₂ nanocubes and their phase transitions to TiO ₂ hollow nanocages as anode materials for lithium-ion battery. <i>Electrochimica Acta</i> , 2012 , 62, 408-415	6.7	52

245	A novel method to synthesize whisker-like Co(OH) ₂ and its electrochemical properties as an electrochemical capacitor electrode. <i>Electrochimica Acta</i> , 2010 , 56, 115-121	6.7	52
244	Facile growth of hexagonal NiO nanoplatelet arrays assembled by mesoporous nanosheets on Ni foam towards high-performance electrochemical capacitors. <i>Electrochimica Acta</i> , 2012 , 78, 532-538	6.7	51
243	Three-dimensional graphene hydrogel supported ultrafine RuO ₂ nanoparticles for supercapacitor electrodes. <i>New Journal of Chemistry</i> , 2015 , 39, 4035-4040	3.6	50
242	Porous NiCo ₂ O ₄ nanotubes as a noble-metal-free effective bifunctional catalyst for rechargeable LiD ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24309-24314	13	50
241	Enhanced electrochemical performance of sulfur cathodes with a water-soluble binder. <i>RSC Advances</i> , 2015 , 5, 13709-13714	3.7	49
240	Preparation and electrochemical performances of graphene/polypyrrole nanocomposite with anthraquinone-graphene oxide as active oxidant. <i>Carbon</i> , 2017 , 119, 111-118	10.4	48
239	3D Printed High-Loading Lithium-Sulfur Battery Toward Wearable Energy Storage. <i>Advanced Functional Materials</i> , 2020 , 30, 1909469	15.6	47
238	Enhanced Performance of Aqueous Sodium-Ion Batteries Using Electrodes Based on the NaTi ₂ (PO ₄) ₃ /MWNTs/Na _{0.44} MnO ₂ System. <i>Energy Technology</i> , 2014 , 2, 705-712	3.5	47
237	A facile approach towards sulfonate functionalization of multi-walled carbon nanotubes as Pd catalyst support for ethylene glycol electro-oxidation. <i>Journal of Power Sources</i> , 2009 , 191, 366-370	8.9	47
236	Symmetric Self-Hybrid Supercapacitor Consisting of Multiwall Carbon Nanotubes and CoAl Layered Double Hydroxides. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A110	3.9	47
235	Si nanoparticles encapsulated in elastic hollow carbon fibres for Li-ion battery anodes with high structural stability. <i>Nanoscale</i> , 2015 , 7, 7409-14	7.7	46
234	Nanospace-confinement copolymerization strategy for encapsulating polymeric sulfur into porous carbon for lithium-sulfur batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11165-71	9.5	46
233	Effect of carbon entrapped in CoAl double oxides on structural restacking and electrochemical performances. <i>Journal of Power Sources</i> , 2007 , 172, 999-1006	8.9	46
232	A new method to recover the nanoparticles from reverse micelles: recovery of ZnS nanoparticles synthesized in reverse micelles by compressed CO ₂ . <i>Chemical Communications</i> , 2001 , 2724-2725	5.8	46
231	A two-step etching route to ultrathin carbon nanosheets for high performance electrical double layer capacitors. <i>Nanoscale</i> , 2016 , 8, 11136-42	7.7	46
230	Sacrificial template synthesis of short mesoporous NiO nanotubes and their application in electrochemical capacitors. <i>Electrochimica Acta</i> , 2013 , 88, 507-512	6.7	45
229	Template-induced self-activation route for nitrogen-doped hierarchically porous carbon spheres for electric double layer capacitors. <i>Carbon</i> , 2018 , 136, 204-210	10.4	44
228	Surface-functionalized graphene-based quasi-solid-state Na-ion hybrid capacitors with excellent performance. <i>Energy Storage Materials</i> , 2018 , 11, 8-15	19.4	44

227	Self-supported electrodes of Na ₂ Ti ₃ O ₇ nanoribbon array/graphene foam and graphene foam for quasi-solid-state Na-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5806-5812	13	42
226	A novel aqueous ammonium dual-ion battery based on organic polymers. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11314-11320	13	42
225	Hollow NiCo ₂ S ₄ nanotube arrays grown on carbon textile as a self-supported electrode for asymmetric supercapacitors. <i>RSC Advances</i> , 2016 , 6, 9950-9957	3.7	42
224	Capacitance properties of graphite oxide/poly(3,4-ethylene dioxythiophene) composites. <i>Journal of Applied Polymer Science</i> , 2011 , 121, 892-898	2.9	42
223	Preparation and electrochemical properties of polyaniline doped with benzenesulfonic functionalized multi-walled carbon nanotubes. <i>Electrochimica Acta</i> , 2010 , 55, 2311-2318	6.7	42
222	Self-Sacrificial Template-Directed Synthesis of Metal-Organic Framework-Derived Porous Carbon for Energy-Storage Devices. <i>ChemElectroChem</i> , 2016 , 3, 668-674	4.3	42
221	Synthesis of cubic and spherical Pd nanoparticles on graphene and their electrocatalytic performance in the oxidation of formic acid. <i>Nanoscale</i> , 2014 , 6, 13154-62	7.7	40
220	Enhanced Lithium-Storage Performance from Three-Dimensional MoS ₂ Nanosheets/Carbon Nanotube Paper. <i>ChemElectroChem</i> , 2014 , 1, 1118-1125	4.3	40
219	Preparation and electrochemical performances of graphite oxide/polypyrrole composites. <i>Synthetic Metals</i> , 2010 , 160, 2336-2340	3.6	40
218	Superlithiated Polydopamine Derivative for High-Capacity and High-Rate Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38101-38108	9.5	40
217	One-step Synthesis of Pt Nanoparticles Highly Loaded on Graphene Aerogel as Durable Oxygen Reduction Electrocatalyst. <i>Electrochimica Acta</i> , 2015 , 152, 140-145	6.7	39
216	Why do co-solvents enhance the solubility of solutes in supercritical fluids? New evidence and opinion. <i>Chemistry - A European Journal</i> , 2002 , 8, 5107-11	4.8	39
215	Operando Magnetometry Probing the Charge Storage Mechanism of CoO Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2006629	24	39
214	Rocking-chair Na-ion hybrid capacitor: a high energy/power system based on Na ₃ V ₂ O ₂ (PO ₄) ₂ F@PEDOT core-shell nanorods. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1030-1037	13	38
213	Solid state synthesis of hydrous ruthenium oxide for supercapacitors. <i>Journal of Power Sources</i> , 2007 , 173, 599-605	8.9	38
212	MnO ₂ /MCMB electrocatalyst for all solid-state alkaline zinc-air cells. <i>Electrochimica Acta</i> , 2004 , 49, 873-877	3.7	38
211	Layer-by-layer self-assembled two-dimensional MXene/layered double hydroxide composites as cathode for alkaline hybrid batteries. <i>Journal of Power Sources</i> , 2018 , 390, 208-214	8.9	37
210	Fabrication of a sandwich structured electrode for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14280	13	37

209	Green and all-carbon asymmetric supercapacitor based on polyaniline nanotubes and anthraquinone functionalized porous nitrogen-doped carbon nanotubes with high energy storage performance. <i>RSC Advances</i> , 2015 , 5, 63624-63633	3.7	36
208	Hierarchically Porous Multilayered Carbon Barriers for High-Performance Li-S Batteries. <i>Chemistry - A European Journal</i> , 2018 , 24, 3768-3775	4.8	36
207	Electrochemical reduction of graphene oxide and its electrochemical capacitive performance. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 2857-2863	2.6	36
206	TiN modified NaTi ₂ (PO ₄) ₃ as an anode material for aqueous sodium ion batteries. <i>Chemical Engineering Journal</i> , 2018 , 353, 814-823	14.7	35
205	Solid/Solid Interfacial Architecturing of Solid Polymer Electrolyte-Based All-Solid-State Lithium-Sulfur Batteries by Atomic Layer Deposition. <i>Small</i> , 2019 , 15, e1903952	11	35
204	Synthesis of hydrogenated TiO ₂ /reduced-graphene oxide nanocomposites and their application in high rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9150-9155	13	35
203	Excellent cycling stability and superior rate capability of a graphene-amorphous FePO ₄ porous nanowire hybrid as a cathode material for sodium ion batteries. <i>Nanoscale</i> , 2016 , 8, 8495-9	7.7	35
202	Aerosol-Spray Pyrolysis toward Preparation of Nanostructured Materials for Batteries and Supercapacitors. <i>Small Methods</i> , 2018 , 2, 1700272	12.8	35
201	Green Template-Free Synthesis of Mesoporous Ternary CoNiMn Oxide Nanowires Towards High-Performance Electrochemical Capacitors. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 778-787	3.1	34
200	Mesoporous Li ₄ Ti ₅ O ₁₂ /carbon nanofibers for high-rate lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2014 , 587, 171-176	5.7	34
199	Preparation and electrochemical performances of PEDOT/sulfonic acid-functionalized graphene composite hydrogel. <i>Synthetic Metals</i> , 2013 , 172, 21-27	3.6	34
198	Bifunctional Redox Mediator Supported by an Anionic Surfactant for Long-Cycle LiO ₂ Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 2659-2666	20.1	33
197	Defect-rich and N-doped hard carbon as a sustainable anode for high-energy lithium-ion capacitors. <i>Journal of Colloid and Interface Science</i> , 2020 , 567, 75-83	9.3	33
196	One-step electrochemical composite polymerization of polypyrrole integrated with functionalized graphene/carbon nanotubes nanostructured composite film for electrochemical capacitors. <i>Electrochimica Acta</i> , 2012 , 62, 132-139	6.7	33
195	Synthesis and characterization of core-shell nanostructured PPy/V ₂ O ₅ composite. <i>Materials Letters</i> , 2009 , 63, 683-686	3.3	33
194	Synthesis of flexible and porous cobalt hydroxide/conductive cotton textile sheet and its application in electrochemical capacitors. <i>Electrochimica Acta</i> , 2011 , 56, 6683-6687	6.7	33
193	Electrospun Hierarchical Li ₄ Ti _{4.95} Nb _{0.05} O ₁₂ /Carbon Composite Nanofibers for High Rate Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A426-A430	3.9	33
192	Solid-state lithium-sulfur batteries: Advances, challenges and perspectives. <i>Materials Today</i> , 2020 , 40, 114-131	21.8	33

191	Facile synthesis of layered Li ₄ Ti ₅ O ₁₂ -Ti ₃ C ₂ T _x (MXene) composite for high-performance lithium ion battery. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 810, 27-33	4.1	32
190	Alloying Reaction Confinement Enables High-Capacity and Stable Anodes for Lithium-Ion Batteries. <i>ACS Nano</i> , 2019 , 13, 9511-9519	16.7	32
189	High dispersion and electrochemical capacitive performance of NiO on benzenesulfonic functionalized carbon nanotubes. <i>Electrochimica Acta</i> , 2009 , 54, 3561-3567	6.7	32
188	A novel asymmetric capacitor based on Co(OH) ₂ /USY composite and activated carbon electrodes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 473, 317-322	5.3	32
187	Uniform Hollow Mesoporous Nickel Cobalt Sulfide Microdumbbells: A Competitive Electrode with Exceptional Gravimetric/Volumetric Pseudocapacitance for High-Energy-Density Hybrid Supercapacitors. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600322	6.4	31
186	Self-Template-Directed Metal-Organic Frameworks Network and the Derived Honeycomb-Like Carbon Flakes via Confinement Pyrolysis. <i>Small</i> , 2018 , 14, e1704461	11	31
185	Facile synthesis of nitrogen-doped carbon derived from polydopamine-coated Li ₃ V ₂ (PO ₄) ₃ as cathode material for lithium-ion batteries. <i>RSC Advances</i> , 2014 , 4, 38791-38796	3.7	31
184	Titanium Dioxide/Germanium Core/Shell Nanorod Arrays Grown on Carbon Textiles as Flexible Electrodes for High Density Lithium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 364-372	3.1	31
183	Improved performances of mechanical-activated LiMn ₂ O ₄ /MWNTs cathode for aqueous rechargeable lithium batteries. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 1943-1948	2.6	31
182	Honeycomb-like NiCo ₂ O ₄ @Ni(OH) ₂ supported on 3D N-doped graphene/carbon nanotubes sponge as an high performance electrode for Supercapacitor. <i>Ceramics International</i> , 2018 , 44, 3113-3121	5.1	31
181	RbF as a Dendrite-Inhibiting Additive in Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20804-20811	9.5	30
180	Nitrogenated Urchin-like Nb ₂ O ₅ Microspheres with Extraordinary Pseudocapacitive Properties for Lithium-Ion Capacitors. <i>ChemElectroChem</i> , 2018 , 5, 1516-1524	4.3	30
179	Graphene/MnO ₂ hybrid nanosheets as high performance electrode materials for supercapacitors. <i>Materials Chemistry and Physics</i> , 2014 , 143, 740-746	4.4	30
178	Biomass-derived porous carbon electrodes for high-performance supercapacitors. <i>Journal of Materials Science</i> , 2020 , 55, 5166-5176	4.3	30
177	Nb ₂ O ₅ nanoparticles encapsulated in ordered mesoporous carbon matrix as advanced anode materials for Li ion capacitors. <i>RSC Advances</i> , 2016 , 6, 71338-71344	3.7	30
176	3D nitrogen-doped carbon foam supported Ge@C composite as anode for high performance lithium-ion battery. <i>Chemical Engineering Journal</i> , 2017 , 322, 188-195	14.7	29
175	High energy aqueous sodium-ion capacitor enabled by polyimide electrode and high-concentrated electrolyte. <i>Electrochimica Acta</i> , 2018 , 268, 512-519	6.7	29
174	Design of a Nitrogen-Doped, Carbon-Coated Li Ti O Nanocomposite with a Core-Shell Structure and Its Application for High-Rate Lithium-Ion Batteries. <i>ChemPlusChem</i> , 2014 , 79, 128-133	2.8	29

- 173 Facile synthesis of Co₂P₂O₇ nanorods as a promising pseudocapacitive material towards high-performance electrochemical capacitors. *RSC Advances*, **2013**, 3, 21558 3.7 29
- 172 Glycine-assisted hydrothermal synthesis of nanostructured Co_xNi_{1-x}Al layered triple hydroxides as electrode materials for high-performance supercapacitors. *Journal of Solid State Electrochemistry*, **2012**, 16, 1933-1940 2.6 29
- 171 Microwave-assisted synthesis of organic/inorganic poly(3,4-ethylenedioxythiophene)/RuO₂·xH₂O nanocomposite for supercapacitor. *Journal of Solid State Electrochemistry*, **2009**, 13, 1925-1933 2.6 29
- 170 Oxygen reduction on Pd₃Pt₁ bimetallic nanoparticles highly loaded on different carbon supports. *Applied Catalysis B: Environmental*, **2010**, 97, 347-353 21.8 29
- 169 Cross-linked NiCo₂O₄ nanosheets with low crystallinity and rich oxygen vacancies for asymmetric supercapacitors. *Journal of Alloys and Compounds*, **2020**, 822, 153689 5.7 29
- 168 Mesoporous carbon nanospheres inserting into graphene sheets for flexible supercapacitor film electrode. *Materials Letters*, **2016**, 178, 304-307 3.3 29
- 167 A functional interlayer as a polysulfides blocking layer for high-performance lithium/sulfur batteries. *New Journal of Chemistry*, **2018**, 42, 1431-1436 3.6 28
- 166 Lithiophilic polymer interphase anchored on laser-punched 3D holey Cu matrix enables uniform lithium nucleation leading to super-stable lithium metal anodes. *Energy Storage Materials*, **2020**, 29, 84-91 19.4 28
- 165 Nitrogen and oxygen co-doping carbon microspheres by a sustainable route for fast sodium-ion batteries. *Electrochimica Acta*, **2019**, 303, 140-147 6.7 27
- 164 Hierarchical N-doped hollow carbon microspheres as advanced materials for high-performance lithium-ion capacitors. *Journal of Materials Chemistry A*, **2020**, 8, 3956-3966 13 27
- 163 Hydrothermal synthesis and electrochemical capacitance of RuO₂·xH₂O loaded on benzenesulfonic functionalized MWCNTs. *Electrochimica Acta*, **2010**, 55, 3681-3686 6.7 27
- 162 Applications of Conventional Vibrational Spectroscopic Methods for Batteries Beyond Li-Ion. *Small Methods*, **2018**, 2, 1700332 12.8 27
- 161 Sodium-rich iron hexacyanoferrate with nickel doping as a high performance cathode for aqueous sodium ion batteries. *Journal of Electroanalytical Chemistry*, **2018**, 818, 10-18 4.1 26
- 160 Metal-organic-framework-derived two-dimensional ultrathin mesoporous hetero-ZnFeO/ZnO nanosheets with enhanced lithium storage properties for Li-ion batteries. *Nanotechnology*, **2016**, 27, 465402 3.4 26
- 159 Nanohollow Carbon for Rechargeable Batteries: Ongoing Progresses and Challenges. *Nano-Micro Letters*, **2020**, 12, 183 19.5 26
- 158 Regulation of SEI Formation by Anion Receptors to Achieve Ultra-Stable Lithium-Metal Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 19232-19240 16.4 26
- 157 Highly Conductive and Lightweight Composite Film as Polysulfide Reservoir for High-Performance Lithium/Sulfur Batteries. *ChemElectroChem*, **2017**, 4, 362-368 4.3 25
- 156 Structure-designed synthesis of yolk-shell hollow ZnFe₂O₄/C@N-doped carbon sub-microspheres as a competitive anode for high-performance Li-ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 17947-17958 13 25

155	Biomolecule-assisted hydrothermal approach towards synthesis of ultra-thin nanoporous $\text{Co}(\text{OH})_2$ mesocrystal nanosheets for electrochemical capacitors. <i>CrystEngComm</i> , 2011 , 13, 6130	3.3	25
154	Interface-hydrothermal synthesis and electrochemical properties of $\text{CoS}(x)$ nanodots/poly(sodium-4-styrene sulfonate) functionalized multi-walled carbon nanotubes nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2010 , 349, 181-5	9.3	25
153	Synthesis of LiV_3O_8 nanocrystallites as cathode materials for lithium ion batteries. <i>Journal of Materials Processing Technology</i> , 2008 , 207, 265-270	5.3	25
152	Development of an asymmetric axial piston pump for displacement-controlled system. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014 , 228, 1418-1430	1.3	24
151	Construction of porous anode by sacrificial template for a passive direct methanol fuel cell. <i>Journal of Power Sources</i> , 2014 , 262, 213-218	8.9	24
150	Solution synthesis and electrochemical capacitance performance of Mn_3O_4 polyhedral nanocrystals via thermolysis of a hydrogen-bonded polymer. <i>Materials Chemistry and Physics</i> , 2011 , 126, 853-858	4.4	24
149	Ordered mesoporous carbons (OMCs) as supports of electrocatalysts for direct methanol fuel cells (DMFCs): Effect of the pore characteristics of OMCs on DMFCs. <i>Journal of Electroanalytical Chemistry</i> , 2009 , 633, 1-6	4.1	24
148	Insights into the electrochemistry of layered double hydroxide containing cobalt and aluminum elements in lithium hydroxide aqueous solution. <i>Journal of Power Sources</i> , 2008 , 179, 388-394	8.9	24
147	Electrodeposition of honeycomb-shaped NiCo_2O_4 on carbon cloth as binder-free electrode for asymmetric electrochemical capacitor with high energy density. <i>RSC Advances</i> , 2016 , 6, 37562-37573	3.7	24
146	Pseudocapacitive T- Nb_2O_5 /N-doped carbon nanosheets anode enable high performance lithium-ion capacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 842, 82-88	4.1	23
145	Boron and nitrogen dual-doped carbon as a novel cathode for high performance hybrid ion capacitors. <i>Chinese Chemical Letters</i> , 2018 , 29, 624-628	8.1	23
144	Analogous graphite carbon sheets derived from corn stalks as high performance sodium-ion battery anodes. <i>RSC Advances</i> , 2016 , 6, 106218-106224	3.7	23
143	Rhombohedral NASICON-structured $\text{Li}_2\text{NaV}_2(\text{PO}_4)_3$ with single voltage plateau for superior lithium storage. <i>RSC Advances</i> , 2014 , 4, 8627	3.7	23
142	Synthesis of nanostructured materials by using metal-cyanide coordination polymers and their lithium storage properties. <i>Nanoscale</i> , 2013 , 5, 11087-93	7.7	23
141	Novel non-covalent sulfonated multiwalled carbon nanotubes from p-toluenesulfonic acid/glucose doped polypyrrole for electrochemical capacitors. <i>Synthetic Metals</i> , 2011 , 161, 373-378	3.6	23
140	Hydrothermal synthesis and characterization of vanadium oxide/titanate composite nanorods. <i>Materials Chemistry and Physics</i> , 2004 , 87, 168-172	4.4	23
139	Scalable synthesis of holey graphite nanosheets for supercapacitors with high volumetric capacitance. <i>Nanoscale Horizons</i> , 2019 , 4, 526-530	10.8	23
138	High Performance Aqueous Sodium-Ion Capacitors Enabled by Pseudocapacitance of Layered MnO_2 . <i>Energy Technology</i> , 2018 , 6, 2146-2153	3.5	22

137	Electrochemical properties of LiFePO ₄ /C synthesized using polypyrrole as carbon source. <i>Journal of Solid State Electrochemistry</i> , 2009 , 13, 1361-1366	2.6	22
136	Sulfonation of ordered mesoporous carbon supported Pd catalysts for formic acid electrooxidation. <i>Journal of Colloid and Interface Science</i> , 2009 , 337, 614-8	9.3	22
135	Enhanced Cycle Performance of Polyimide Cathode Using a Quasi-Solid-State Electrolyte. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 22294-22300	3.8	22
134	Li Ti O Anode: Structural Design from Material to Electrode and the Construction of Energy Storage Devices. <i>Chemical Record</i> , 2018 , 18, 350-380	6.6	21
133	Development of a dual-acting axial piston pump for displacement-controlled system. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2014 , 228, 606-616	2.4	21
132	Synthesis of LiNi _{0.5} Mn _{1.5} O ₄ Hollow Microspheres and Their Lithium-Storage Properties. <i>ChemElectroChem</i> , 2015 , 2, 127-133	4.3	20
131	Design of nanoconfined MWNTs@NaTi ₂ (PO ₄) ₃ coaxial cables with superior rate capability and long-cycle life for Na-ion batteries. <i>Applied Materials Today</i> , 2016 , 4, 54-61	6.6	20
130	Improved flexible Li-ion hybrid capacitors: Techniques for superior stability. <i>Nano Research</i> , 2017 , 10, 4448-4456	10	20
129	Nitrogen-doped heterostructure carbon functionalized by electroactive organic molecules for asymmetric supercapacitors with high energy density. <i>RSC Advances</i> , 2016 , 6, 40602-40614	3.7	20
128	Ruthenium Oxide/Reduced Graphene Oxide Nanoribbon Composite and Its Excellent Rate Capability in Supercapacitor Application. <i>Chinese Journal of Chemistry</i> , 2016 , 34, 114-122	4.9	19
127	Synthesis and supercapacitance of flower-like Co(OH) ₂ hierarchical superstructures self-assembled by mesoporous nanobelts. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1519-1525	2.6	19
126	Niobium Tungsten Oxide in a Green Water-in-Salt Electrolyte Enables Ultra-Stable Aqueous Lithium-Ion Capacitors. <i>Nano-Micro Letters</i> , 2020 , 12, 168	19.5	19
125	Dual Dopamine Derived Polydopamine Coated N-Doped Porous Carbon Spheres as a Sulfur Host for High-Performance Lithium-Sulfur Batteries. <i>Chemistry - A European Journal</i> , 2019 , 25, 10710-10717	4.8	18
124	Efficient Synthesis of N-Doped SiO _x /C Composite Based on the Defect-Enriched Graphite Flake for Lithium-Ion Battery. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4394-4402	6.1	18
123	High performance three-dimensional Ge/cyclized-polyacrylonitrile thin film anodes prepared by RF magnetron sputtering for lithium ion batteries. <i>Journal of Materials Science</i> , 2014 , 49, 2279-2285	4.3	18
122	Preparation and characterization of hollow Co ₃ O ₄ spheres. <i>Materials Letters</i> , 2008 , 62, 772-774	3.3	18
121	Preparation and electrochemical capacitance of brown-millerite SrCoO _{2.5} as electrode materials for supercapacitor. <i>Materials Chemistry and Physics</i> , 2005 , 94, 221-225	4.4	18
120	High-Voltage Li ₂ SiO ₃ @LiNi _{0.5} Mn _{1.5} O ₄ Hollow Spheres Prepared through In Situ Aerosol Spray Pyrolysis towards High-Energy Li-Ion Batteries. <i>ChemElectroChem</i> , 2018 , 5, 1212-1218	4.3	17

119	Interface-hydrothermal synthesis of Sn ₃ S ₄ /graphene sheet composites and their application in electrochemical capacitors. <i>Materials Letters</i> , 2011 , 65, 374-377	3.3	17
118	Stabilized titanium nitride nanowire supported silicon core-shell nanorods as high capacity lithium-ion anodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12476-12481	13	16
117	Facile Synthesis of Nitrogen-Containing Mesoporous Carbon for High-Performance Energy Storage Applications. <i>Chemistry - A European Journal</i> , 2016 , 22, 4256-62	4.8	16
116	Two Conjugated Covalent Organic Frameworks with Long-Term Cyclability at High Current Density for Lithium Ion Battery. <i>Chemistry - A European Journal</i> , 2019 , 25, 15472-15476	4.8	16
115	Preparation and electrochemical performances of porous polypyrrole film by interfacial polymerization. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 2938-2944	2.9	16
114	General Strategy to Fabricate Ternary Metal Nitride/Carbon Nanofibers for Supercapacitors. <i>ChemElectroChem</i> , 2015 , 2, 2020-2026	4.3	16
113	Metal-organic framework derived titanium-based anode materials for lithium ion batteries. <i>Nano Structures Nano Objects</i> , 2018 , 15, 48-53	5.6	15
112	Ternary phase interfacial polymerization of polypyrrole/MWCNT nanocomposites with core-shell structure. <i>Synthetic Metals</i> , 2012 , 162, 753-758	3.6	15
111	Oxygen-enriched crumpled graphene-based symmetric supercapacitor with high gravimetric and volumetric performances. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 833, 119-125	4.1	15
110	Nano-sized Titanium Nitride Functionalized Separator Improves Cycling Performance of Lithium Sulfur Batteries. <i>ChemistrySelect</i> , 2019 , 4, 698-704	1.8	15
109	An aqueous rechargeable sodium-magnesium mixed ion battery based on NaTi ₂ (PO ₄) ₃ MnO ₂ system. <i>Electrochimica Acta</i> , 2019 , 311, 1-7	6.7	14
108	Confined germanium nanoparticles in an N-doped carbon matrix for high-rate and ultralong-life lithium ion batteries. <i>RSC Advances</i> , 2015 , 5, 85256-85263	3.7	14
107	Lithium-ion capacitor based on nanoarchitected polydopamine/graphene composite anode and porous graphene cathode. <i>Carbon</i> , 2020 , 167, 627-633	10.4	14
106	Enhancing the electrochemical performance of Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ by surface modification with nickel-manganese composite oxide. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 2087-2093	2.6	14
105	Effect of feeding ratios on the structure and electrochemical performance of graphite oxide/polypyrrole nanocomposites. <i>Science Bulletin</i> , 2011 , 56, 2846-2852		14
104	Poly(sodium-p-styrenesulfonate) assisted microwave synthesis of ordered mesoporous carbon supported Pd nanoparticles for formic acid electro-oxidation. <i>Applied Surface Science</i> , 2009 , 256, 33-38	6.7	14
103	Large-scale Synthesis of Nitrogen-doped Carbon Nanotubes by Chemical Vapor Deposition Using a Co-based Catalyst from Layered Double Hydroxides. <i>Catalysis Letters</i> , 2010 , 135, 312-320	2.8	14
102	Self-assembly preparation of mesoporous hollow nanospheric manganese dioxide and its application in zinc-air battery. <i>Journal of Solid State Electrochemistry</i> , 2006 , 10, 995-1001	2.6	14

101	Heteroatom-Doped Porous Carbon Nanosheets: General Preparation and Enhanced Capacitive Properties. <i>Chemistry - A European Journal</i> , 2016 , 22, 16668-16674	4.8	14
100	Serosa-Mimetic Nanoarchitecture Membranes for Highly Efficient Osmotic Energy Generation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16206-16216	16.4	14
99	Bacterial cellulose-derived carbon nanofibers as both anode and cathode for hybrid sodium ion capacitor.. <i>RSC Advances</i> , 2020 , 10, 7780-7790	3.7	13
98	Synthesis and electrochemical performances of mixed-valence vanadium oxide/ordered mesoporous carbon composites for supercapacitors. <i>RSC Advances</i> , 2016 , 6, 25056-25061	3.7	13
97	Preparation and capacitive performances of PEDOT/indigo carmine composite hydrogel. <i>Polymer Composites</i> , 2013 , 34, 989-996	3	13
96	Comparative study of electrochemical capacitance of multi-walled carbon nanotubes before and after chopping. <i>Applied Surface Science</i> , 2010 , 257, 440-445	6.7	13
95	High-voltage aqueous symmetric electrochemical capacitor based on Ru _{0.7} Sn _{0.3} O ₂ ·nH ₂ O electrodes in 1 M KOH. <i>Journal of Solid State Electrochemistry</i> , 2008 , 12, 1645-1652	2.6	13
94	Revealing the multiple cathodic and anodic involved charge storage mechanism in an FeSe ₂ cathode for aluminium-ion batteries by in situ magnetometry. <i>Energy and Environmental Science</i> , 2022 , 15, 311-319	35.4	13
93	Composite Electrolytes Based on Poly(Ethylene Oxide) and Lithium Borohydrides for All-Solid-State Lithium Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 5396-5404	8.3	13
92	3D Printed Lithium-Metal Full Batteries Based on a High-Performance Three-Dimensional Anode Current Collector. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24785-24794	9.5	13
91	Free-standing N,Co-codoped TiO ₂ nanoparticles for LiO ₂ -based LiO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23046-23054	13	12
90	Unusual electrochemical behavior of Ru/Tr binary oxide-based aqueous symmetric supercapacitors in KOH solution. <i>Electrochimica Acta</i> , 2013 , 88, 654-658	6.7	12
89	Facile Water/Ionic Liquid/Organic Triphase Interfacial Synthesis of Coral-Like Polyaniline toward High-Performance Electrochemical Capacitors. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1323-A1328	3.9	12
88	Hydrothermal synthesis of Co ₃ O ₄ with different morphologies and the improvement of lithium storage properties. <i>Materials Chemistry and Physics</i> , 2011 , 128, 475-482	4.4	12
87	Water/ionic liquid/organic three-phase interfacial synthesis of coral-like polypyrrole toward enhanced electrochemical capacitance. <i>Electrochimica Acta</i> , 2011 , 56, 6049-6054	6.7	11
86	Density functional study of aurophilic interaction in [X(AuPH ₃) ₂] ₂ (X = F, Cl, Br, I). <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 5796-804	3.6	11
85	A Fast Proton-Induced Pseudocapacitive Supercapacitor with High Energy and Power Density. <i>Advanced Functional Materials</i> , 2010 , 2107720	15.6	11
84	Porous Silicon@Polythiophene Core/Shell Nanospheres for Lithium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 75-81	3.1	11

83	Enhanced electrochemical properties of MgF ₂ and C co-coated Li ₃ V ₂ (PO ₄) ₃ composite for Li-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 762, 1-6	4.1	11
82	Graphene scrolls coated Sb ₂ S ₃ nanowires as anodes for sodium and lithium ion batteries. <i>Nano Structures Nano Objects</i> , 2018 , 15, 197-204	5.6	11
81	Honeycombed NiCo ₂ O ₄ nanosheets grown on the sponge of a carbon nanotube/graphene prepared by the flame burning method with an advanced performance as a supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019 , 787, 36-44	5.7	10
80	Functionalized ionic liquid-assisted mechanochemical synthesis of graphene nanosheet/polypyrrole nanocomposites. <i>Materials Letters</i> , 2012 , 71, 57-59	3.3	10
79	Influence of electrolyte ions on rechargeable supercapacitor for high value-added conversion of low-grade waste heat. <i>Journal of Power Sources</i> , 2020 , 465, 228263	8.9	9
78	Biomorphic template-engaged strategy towards porous zinc manganate micro-belts as a competitive anode for rechargeable lithium-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 14154-14165	6.7	9
77	Density functional study on rare gas-noble metal closed-shell interaction in XeMX (M = Au, Ag, Cu; X = F, Cl, Br) systems. <i>Theoretical Chemistry Accounts</i> , 2009 , 123, 443-453	1.9	9
76	Synthesis and characterization of aniline and o-toluidine conducting copolymer microtubes with the template-synthesis method. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 1539-1543	2.9	9
75	Revisiting Charge Storage Mechanism of Reduced Graphene Oxide in Zinc Ion Hybrid Capacitor beyond the Contribution of Oxygen-Containing Groups. <i>Advanced Functional Materials</i> , 2111131	15.6	9
74	Compressed and Crumpled Porous Carbon Electrode for High Volumetric Performance Electrical Double-Layer Capacitors. <i>Energy Technology</i> , 2019 , 7, 1900209	3.5	8
73	Surfactant-assisted microemulsion approach of chrysanthemum-like Co ₃ O ₄ microspheres and their application in lithium-ion battery. <i>Solid State Ionics</i> , 2013 , 231, 63-68	3.3	8
72	Reactive Template Fabrication of Uniform CoreShell Polyaniline/Multiwalled Carbon Nanotube Nanocomposite and Its Electrochemical Capacitance. <i>Chemistry Letters</i> , 2010 , 39, 850-851	1.7	8
71	Influence of cation (NH ₄ ⁺) on electrochemical characteristics of MnO ₂ nanowire synthesized by hydrothermal method. <i>Journal of Solid State Electrochemistry</i> , 2005 , 9, 655-659	2.6	8
70	Zn ₂ GeO ₄ Nanorods@Graphene Composite as Anode Materials for Li-ion Batteries. <i>Acta Chimica Sinica</i> , 2016 , 74, 185	3.3	8
69	A novel porous organic polymer-derived hierarchical carbon for supercapacitors with ultrahigh energy density and durability. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 876, 114723	4.1	8
68	Rational Design of a Piezoelectric BaTiO ₃ Nanodot Surface-Modified LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ Cathode Material for High-Rate Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2020 , 7, 3646-3652	4.3	8
67	An in situ confinement strategy to porous poly(3,4-ethylenedioxythiophene)/sulfur composites for lithium-sulfur batteries. <i>RSC Advances</i> , 2016 , 6, 47858-47863	3.7	8
66	Conductive Metal-Organic Framework for High Energy Sodium-Ion Hybrid Capacitors. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1568-1574	6.1	8

65	A Heavily Surface-Doped Polymer with the Bifunctional Catalytic Mechanism in Li-O Batteries. <i>IScience</i> , 2019 , 14, 312-322	6.1	7
64	Three-dimensional graphene nanosheets/carbon nanotube paper as flexible electrodes for electrochemical capacitors. <i>RSC Advances</i> , 2015 , 5, 22173-22177	3.7	7
63	Atomic Layer Deposition of Single Atomic Cobalt as a Catalytic Interlayer for Lithium Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11206-11212	6.1	7
62	Rigid Polyimide Buffering Layer Enabling Silicon Nanoparticles Prolonged Cycling Life for Lithium Storage. <i>ACS Applied Energy Materials</i> , 2018 , 1, 948-955	6.1	7
61	Serum uric acid concentration is associated with hypertensive retinopathy in hypertensive chinese adults. <i>BMC Ophthalmology</i> , 2017 , 17, 83	2.3	7
60	Preparation and Enhanced Electrochemical Performance of MnO ₂ Nanosheets for Supercapacitors. <i>Journal of the Chinese Chemical Society</i> , 2012 , 59, 1275-1279	1.5	7
59	How does magnetic field affect polymerization in supercritical fluids? Study of radical polymerization in supercritical CO ₂ . <i>New Journal of Chemistry</i> , 2002 , 26, 958-961	3.6	7
58	Organosilicon-Based Functional Electrolytes for High-Performance Lithium Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2101057	21.8	7
57	Density functional study of aurophilic interaction in Cl(AuPH ₃) and in its dimerization. <i>International Journal of Quantum Chemistry</i> , 2009 , 109, 526-533	2.1	6
56	Synthesis of Ru _{0.58} In _{0.42} O _{(y)?n} H ₍₂₎ O nanoparticles dispersed onto poly(sodium-4-styrene sulfonate)-functionalized multi-walled carbon nanotubes and their application for electrochemical capacitors. <i>Journal of Colloid and Interface Science</i> , 2011 , 354, 804-9	9.3	6
55	Association Between Folic Acid Supplementation and Retinal Atherosclerosis in Chinese Adults With Hypertension Complicated by Diabetes Mellitus. <i>Frontiers in Pharmacology</i> , 2018 , 9, 1159	5.6	6
54	In Situ Tuning Residual Lithium Compounds and Constructing TiO ₂ Coating for Surface Modification of a Nickel-Rich Cathode toward High-Energy Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 12423-12432	6.1	5
53	Promotive effect of multi-walled carbon nanotubes on Co ₃ O ₄ nanosheets and their application in lithium-ion battery. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 184-190	3.6	5
52	Ion-exchange synthesis of Co-functionalized titanate nanotubes and their application in electrochemical capacitors. <i>Materials Letters</i> , 2011 , 65, 2632-2634	3.3	5
51	Highly dispersed Pd nanoparticles on chemically modified graphene with aminophenyl groups for formic acid oxidation. <i>Chinese Physics B</i> , 2011 , 20, 113301	1.2	5
50	Heterostructure NiS ₂ /NiCo ₂ S ₄ nanosheets array on carbon nanotubes sponge electrode with high specific capacitance for supercapacitors. <i>Journal of Power Sources</i> , 2022 , 518, 230763	8.9	5
49	Preparation and Supercapacitive Performance of Polyaniline Covalently Grafted Carbon Nanotubes Composite Material. <i>Acta Chimica Sinica</i> , 2014 , 72, 1175	3.3	5
48	Rational design of ZIF-8 assimilated hierarchical porous carbon nanofibers as binder-free electrodes for supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 895, 115471	4.1	5

47	Self-standing manganese dioxide/graphene carbon nanotubes film electrode for symmetric supercapacitor with high energy density and superior long cycling stability. <i>Ceramics International</i> , 2021 , 47, 33020-33020	5.1	5
46	Catalytic Growth of Graphitic Carbon-Coated Silicon as High-Performance Anodes for Lithium Storage. <i>Energy Technology</i> , 2019 , 7, 1900502	3.5	4
45	Photoreceptor Cell Injury Starts in the Initial Stage of Vogt-Koyanagi-Harada Disease. <i>Ocular Immunology and Inflammation</i> , 2018 , 26, 934-942	2.8	4
44	Effect of Pre-Punched Current Collector for Lithiation on the Electrochemical Performance of Lithium-Ion Capacitor. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2017 , 33, 780-786	3.8	4
43	Facile preparation Pt on Au dendrites supported on Si (100) and their electrochemical properties for methanol and CO electrooxidation. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 2231-2237	2.6	4
42	Density functional studies of closed-shell attractions of S(AuPH ₃) ₂ and HS(AuPH ₃) ₂ + and their dimers. <i>Journal of Molecular Modeling</i> , 2009 , 15, 461-8	2	4
41	Zinc ion thermal charging cell for low-grade heat conversion and energy storage.. <i>Nature Communications</i> , 2022 , 13, 132	17.4	4
40	Charge Storage Mechanism of an Anthraquinone-Derived Porous Covalent Organic Framework with Multiredox Sites as Anode Material for Lithium-Ion Battery. <i>ACS Applied Energy Materials</i> , 2021 , 4, 11377-11385 ⁴	6.1	4
39	Encapsulating Oxygen-Deficient TiNb ₂ O ₆ Microspheres by N-Doped Carbon Nanolayer Boosts Capacity and Stability of Lithium-Ion Battery. <i>Batteries and Supercaps</i> , 2020 , 3, 1360-1369	5.6	4
38	A Thermally Chargeable Hybrid Supercapacitor with High Power Density for Directly Converting Heat to Electricity. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6055-6061	6.1	4
37	Li ₃ V ₂ (PO ₄) ₃ /nitrogen-doped reduced graphene oxide nanocomposite with enhanced lithium storage properties. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 1983-1990	2.6	4
36	Tubular Graphene Nano-Scroll Coated Silicon for High Rate Performance Lithium-Ion Battery. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	3
35	Electrochemical behavior of Co ₃ O ₄ microspheres in aqueous LiOH solution. <i>Rare Metals</i> , 2011 , 30, 90-93	5.5	3
34	Oxygen reduction reaction on (Pt ₁ NbPO _x)/MWCNTs electrodes prepared by microwave irradiation method. <i>Journal of Solid State Electrochemistry</i> , 2007 , 12, 113-119	2.6	3
33	A Facile Surface Passivation Method to Stabilized Lithium Metal Anodes Facilitate the Practical Application of Quasi-Solid-State Batteries. <i>Advanced Materials Interfaces</i> , 2021 , 2102283	4.6	3
32	Preparation of Polyaniline Covalently Grafted Carbon Nanotubes Supported Pt Catalysts and Its Electrocatalytic Performance for Methanol. <i>Acta Chimica Sinica</i> , 2013 , 71, 1647	3.3	3
31	Facile Cross-Linked Robust Three-Dimensional Binder for High-Performance SiO ₂ Anodes in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 49313-49321	9.5	3
30	Self-supported TiN nanorod array/carbon textile as a lithium host that induces dendrite-free lithium plating with high rates and long cycle life. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3293-3299	13	3

29	Deep Eutectic Solvent-Induced Polyacrylonitrile-Derived Hierarchical Porous Carbon for Zinc-Ion Hybrid Supercapacitors. <i>Batteries and Supercaps</i> , 2021 , 4, 680-686	5.6	3
28	Regulation of SEI Formation by Anion Receptors to Achieve Ultra-Stable Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 19381-19389	3.6	3
27	Electrospinning oxygen-vacant TiNb ₂ O ₆ nanowires simultaneously boosts electrons and ions transmission capacities toward superior lithium storage. <i>Electrochimica Acta</i> , 2021 , 388, 138656	6.7	3
26	Aerosol-assisted preparation of N-doped hierarchical porous carbon spheres cathodes toward high-stable lithium-ion capacitors. <i>Journal of Materials Science</i> , 2020 , 55, 13127-13140	4.3	2
25	Capacitors: Flexible Films Derived from Electrospun Carbon Nanofibers Incorporated with Co ₃ O ₄ Hollow Nanoparticles as Self-Supported Electrodes for Electrochemical Capacitors (Adv. Funct. Mater. 31/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 3944-3944	15.6	2
24	Synthesis of carbon nanobelts using a colloidal suspension of CoAl layered double hydroxide nanosheets. <i>Carbon</i> , 2011 , 49, 4950-4952	10.4	2
23	Preparation and Electrochemical Lithium Storage of Titanium Dioxide@Multi-walled Carbon Nanotubes(TiO ₂ @MWNTs) Nanocomposites. <i>Acta Chimica Sinica</i> , 2012 , 70, 15	3.3	2
22	Phenyl-Modified Carbon Nitride Quantum Nanoflakes for Ultra-Highly Selective Sensing of Formic Acid: A Combined Experimental by QCM and Density Functional Theory Study. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48595-48610	9.5	2
21	Effects of binder content on low-cost solvent-free electrodes made by dry-spraying manufacturing for lithium-ion batteries. <i>Journal of Power Sources</i> , 2021 , 515, 230644	8.9	2
20	Stabilization of a 4.7 V High-Voltage Nickel-Rich Layered Oxide Cathode for Lithium-Ion Batteries through Boron-Based Surface Residual Lithium-Tuned Interface Modification Engineering. <i>ChemElectroChem</i> , 2021 , 8, 2014-2021	4.3	2
19	Polydopamine grafted cross-linked polyacrylamide as robust binder for SiO ₂ /C anode toward high-stability lithium-ion battery. <i>Journal of Materials Science</i> , 2021 , 56, 6337-6348	4.3	2
18	Successive Cationic and Anionic (De)-Intercalation/ Incorporation into an Ion-Doped Radical Conducting Polymer. <i>Batteries and Supercaps</i> , 2019 , 2, 979-984	5.6	1
17	A High-Voltage Lithium-Metal Batteries Electrolyte Based on Fully-Methylated Pivalonitrile. <i>Batteries and Supercaps</i> ,	5.6	1
16	Tailored Hierarchical Porous Carbon through Template Modification for Antifreezing Quasi-Solid-State Zinc Ion Hybrid Supercapacitors. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000112	1.6	1
15	Lithium-sodium ion capacitors: A new type of hybrid supercapacitors with high energy density. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 888, 115202	4.1	1
14	Nb ₃ O ₇ F mesocrystals: orientation formation and application in lithium ion capacitors. <i>CrystEngComm</i> , 2021 , 23, 6012-6022	3.3	1
13	Vanadium nitride nanoparticles embedded in carbon matrix with pseudocapacitive behavior for high performance lithium-ion capacitors. <i>Rare Metals</i> , ¹	5.5	1
12	A novel covalent organic framework with high-density imine groups for lithium storage as anode material in lithium-ion batteries. <i>Journal of Materials Science</i> , ¹	4.3	1

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| 11 | Stabilizing Li Plating by a Fluorinated Hybrid Protective Layer. <i>ACS Applied Energy Materials</i> , 2021 , 4, 14407-14414 | 6.1 | 1 |
| 10 | Hierarchical porous carbon derived from elm bark mucus for efficient energy storage and conversion. <i>Materials Chemistry and Physics</i> , 2022 , 277, 125450 | 4.4 | 0 |
| 9 | High-performance 2.5V supercapacitor with high energy density and long cycling stability based on graphene coated oxygen-vacancy birnessite. <i>Journal of Alloys and Compounds</i> , 2022 , 901, 163543 | 5.7 | 0 |
| 8 | Insight into the reversible conversion-(de)incorporation of redox-active dopants within a polymer-based electrode. <i>Chemical Communications</i> , 2021 , 57, 6780-6783 | 5.8 | 0 |
| 7 | Using a copper hyperaccumulator to synthesize anode and cathode materials for a high-energy 4.1V full-carbon lithium-ion capacitor. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 898, 115616 | 4.1 | 0 |
| 6 | MnO ₂ /carbon nanotube free-standing electrode recycled from spent manganese-oxygen battery as high-performance supercapacitor material. <i>Journal of Materials Science</i> , 2022 , 57, 8818-8827 | 4.3 | 0 |
| 5 | Flexible Sodium Ion Batteries: From Materials to Devices 2018 , 97-125 | | |
| 4 | FACILE SYNTHESIS AND UNUSUAL ELECTROCHEMICAL CAPACITANCE OF Ni-DOPED TITANATE NANOTUBES. <i>Journal of Molecular and Engineering Materials</i> , 2013 , 01, 1340016 | 1.3 | |
| 3 | HIERARCHICAL Li ₄ Ti ₅ O ₁₂ MICROSPHERES AS A HIGH POWER ANODE MATERIAL FOR LITHIUM ION BATTERIES. <i>Journal of Molecular and Engineering Materials</i> , 2013 , 01, 1340013 | 1.3 | |
| 2 | Pyrolysis Preparation of Nickel Oxide and Its Electrochemical Capacitance. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2011 , 26, 398-402 | 1 | |
| 1 | Self-Standing Flexible N-Doped Graphene/CNTs Supported Spiral Low-Crystalline Ni(OH) ₂ Electrode with Ultra-Long Cycling Stability for Supercapacitors. <i>Nano</i> , 2021 , 16, 2150013 | 1.1 | |