Yong-Gang Wang

List of Publications by Citations

386 papers	31,821 citations	96 h-index	166 g-index
405 ext. papers	37,467 ext. citations	11.4 avg, IF	7.85 L-index

#	Paper	IF	Citations
386	Electrochemical capacitors: mechanism, materials, systems, characterization and applications. *Chemical Society Reviews*, **2016**, 45, 5925-5950	58.5	2202
385	Ordered Whiskerlike Polyaniline Grown on the Surface of Mesoporous Carbon and Its Electrochemical Capacitance Performance. *Advanced Materials*, **2006**, 18, 2619-2623	24	959
384	The design of a LiFePO4/carbon nanocomposite with a core-shell structure and its synthesis by an in situ polymerization restriction method. *Angewandte Chemie - International Edition*, **2008**, 47, 7461-5	16.4	756
383	All-Inorganic Perovskite Solar Cells. *Journal of the American Chemical Society*, **2016**, 138, 15829-15832	16.4	700
382	Ti-based compounds as anode materials for Li-ion batteries. *Energy and Environmental Science*, **2012**, 5, 6652	35.4	691
381	Twisting carbon nanotube fibers for both wire-shaped micro-supercapacitor and micro-battery. *Advanced Materials*, **2013**, 25, 1155-9, 1224	24	635
380	Polyaniline-intercalated manganese dioxide nanolayers as a high-performance cathode material for an aqueous zinc-ion battery. *Nature Communications*, **2018**, 9, 2906	17.4	618
379	Recent progress in supercapacitors: from materials design to system construction. *Advanced Materials*, **2013**, 25, 5336-42	24	485
378	Nano active materials for lithium-ion batteries. *Nanoscale*, **2010**, 2, 1294-305	7.7	443
377	Recent Progress in Aqueous Lithium-Ion Batteries. *Advanced Energy Materials*, **2012**, 2, 830-840	21.8	390
376	CsPbSnIBr Based All-Inorganic Perovskite Solar Cells with Exceptional Efficiency and Stability. *Journal of the American Chemical Society*, **2017**, 139, 14009-14012	16.4	353
375	A Metal-Organic Framework Host for Highly Reversible Dendrite-free Zinc Metal Anodes. *Joule*, **2019**, 3, 1289-1300	27.8	351
374	Carbon-coated nano-sized Li4Ti5O12 nanoporous micro-sphere as anode material for high-rate lithium-ion batteries. *Energy and Environmental Science*, **2011**, 4, 4016	35.4	342
373	Novel electric double-layer capacitor with a coaxial fiber structure. *Advanced Materials*, **2013**, 25, 6436-41	24	314
372	Flexible and Wire-Shaped Micro-Supercapacitor Based on Ni(OH)2-Nanowire and Ordered Mesoporous Carbon Electrodes. *Advanced Functional Materials*, **2014**, 24, 3405-3412	15.6	277
371	A new concept hybrid electrochemical surpercapacitor: Carbon/LiMn2O4 aqueous system. *Electrochemistry Communications*, **2005**, 7, 1138-1142	5.1	276
370	Olivine LiFePO4: development and future. *Energy and Environmental Science*, **2011**, 4, 805-817	35.4	273

369	Ordered hierarchical mesoporous/macroporous carbon: a high-performance catalyst for rechargeable Li-O(2) batteries. *Advanced Materials*, **2013**, 25, 5668-72	24	270
368	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. *Angewandte Chemie - International Edition*, **2018**, 57, 11737-11741	16.4	261
367	Elastic and wearable wire-shaped lithium-ion battery with high electrochemical performance. *Angewandte Chemie - International Edition*, **2014**, 53, 7864-9	16.4	259
366	Electrochemical capacitance characterization of NiO with ordered mesoporous structure synthesized by template SBA-15. *Electrochimica Acta*, **2006**, 51, 3223-3227	6.7	259
365	Recent Progress of Rechargeable Batteries Using Mild Aqueous Electrolytes. *Small Methods*, **2019**, 3, 1800272	12.8	259
364	Twisted aligned carbon nanotube/silicon composite fiber anode for flexible wire-shaped lithium-ion battery. *Advanced Materials*, **2014**, 26, 1217-22	24	256
363	A lithium-air battery with a potential to continuously reduce O2 from air for delivering energy. *Journal of Power Sources*, **2010**, 195, 358-361	8.9	255
362	Environmentally-friendly aqueous Li (or Na)-ion battery with fast electrode kinetics and super-long life. *Science Advances*, **2016**, 2, e1501038	14.3	245
361	An asymmetric supercapacitor using RuO2/TiO2 nanotube composite and activated carbon electrodes. *Electrochimica Acta*, **2005**, 50, 5641-5646	6.7	245
360	Nitrogen-Doping-Induced Defects of a Carbon Coating Layer Facilitate Na-Storage in Electrode Materials. *Advanced Energy Materials*, **2015**, 5, 1400982	21.8	244
359	Flexible, Stretchable, and Rechargeable Fiber-Shaped Zinc-Air Battery Based on Cross-Stacked Carbon Nanotube Sheets. *Angewandte Chemie - International Edition*, **2015**, 54, 15390-4	16.4	241
358	Metal-organic frameworks as cathode materials for Li-O2 batteries. *Advanced Materials*, **2014**, 26, 3258-62	24	240
357	Highly Reversible Zn Anode Enabled by Controllable Formation of Nucleation Sites for Zn-Based Batteries. *Advanced Functional Materials*, **2020**, 30, 1908528	15.6	239
356	Separating hydrogen and oxygen evolution in alkaline water electrolysis using nickel hydroxide. *Nature Communications*, **2016**, 7, 11741	17.4	232
355	Synthesis and electrochemical performance of nano-sized Li4Ti5O12 with double surface modification of Ti(III) and carbon. *Journal of Materials Chemistry*, **2009**, 19, 6789		228
354	Pressure-Induced Phase Transformation, Reversible Amorphization, and Anomalous Visible Light Response in Organolead Bromide Perovskite. *Journal of the American Chemical Society*, **2015**, 137, 11144-9	16.4	226
353	Challenges, mitigation strategies and perspectives in development of zinc-electrode materials and fabrication for rechargeable zinc–air batteries. *Energy and Environmental Science*, **2018**, 11, 3075-3095	35.4	212
352	Aqueous Mg-Ion Battery Based on Polyimide Anode and Prussian Blue Cathode. *ACS Energy Letters*, **2017**, 2, 1115-1121	20.1	207

351	Layered H2Ti6O13-Nanowires: A New Promising Pseudocapacitive Material in Non-Aqueous Electrolyte. *Advanced Functional Materials*, **2012**, 22, 5185-5193	15.6	201
350	A high performance lithium-ion sulfur battery based on a Li2S cathode using a dual-phase electrolyte. *Energy and Environmental Science*, **2015**, 8, 1551-1558	35.4	197
349	Highly Efficient Retention of Polysulfides in "Sea Urchin"-Like Carbon Nanotube/Nanopolyhedra Superstructures as Cathode Material for Ultralong-Life Lithium-Sulfur Batteries. *Nano Letters*, **2017**, 17, 437-444	11.5	194
348	Synergetic Protective Effect of the Ultralight MWCNTs/NCQDs Modified Separator for Highly Stable Lithium–Sulfur Batteries. *Advanced Energy Materials*, **2018**, 8, 1702288	21.8	191
347	Progress in Aqueous Rechargeable Sodium-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1703008	21.8	188
346	Hybrid Aqueous Energy Storage Cells Using Activated Carbon and Lithium-Intercalated Compounds. *Journal of the Electrochemical Society*, **2006**, 153, A450	3.9	183
345	Emerging non-lithium ion batteries. *Energy Storage Materials*, **2016**, 4, 103-129	19.4	180
344	Strong Capillarity, Chemisorption, and Electrocatalytic Capability of Crisscrossed Nanostraws Enabled Flexible, High-Rate, and Long-Cycling Lithium-Sulfur Batteries. *ACS Nano*, **2018**, 12, 4868-4876	16.7	177
343	Superb Alkaline Hydrogen Evolution and Simultaneous Electricity Generation by Pt-Decorated Ni3N Nanosheets. *Advanced Energy Materials*, **2017**, 7, 1601390	21.8	176
342	Ordered Mesoporous Spinel LiMn2O4 by a Soft-Chemical Process as a Cathode Material for Lithium-Ion Batteries. *Chemistry of Materials*, **2007**, 19, 4791-4795	9.6	176
341	Three-dimensional Co□□@NiMoO□ core/shell nanowire arrays on Ni foam for electrochemical energy storage. *ACS Applied Materials & Interfaces*, **2014**, 6, 5050-5	9.5	175
340	Mesoporous Carbon Nanofibers for Supercapacitor Application. *Journal of Physical Chemistry C*, **2009**, 113, 1093-1097	3.8	174
339	Organic Batteries Operated at 70 °C. *Joule*, **2018**, 2, 902-913	27.8	172
338	Porous-Shell Vanadium Nitride Nanobubbles with Ultrahigh Areal Sulfur Loading for High-Capacity and Long-Life Lithium-Sulfur Batteries. *Nano Letters*, **2017**, 17, 7839-7846	11.5	172
337	Cerium Oxide Nanocrystal Embedded Bimodal Micromesoporous Nitrogen-Rich Carbon Nanospheres as Effective Sulfur Host for Lithium-Sulfur Batteries. *ACS Nano*, **2017**, 11, 7274-7283	16.7	167
336	Electrochemical reduction of CO2 on RuO2/TiO2 nanotubes composite modified Pt electrode. *Electrochimica Acta*, **2005**, 50, 3576-3580	6.7	167
335	To mitigate self-discharge of lithium–sulfur batteries by optimizing ionic liquid electrolytes. *Energy and Environmental Science*, **2016**, 9, 224-231	35.4	159
334	Preparation and electrochemical capacitance of RuO2/TiO2 nanotubes composites. *Electrochimica Acta*, **2004**, 49, 1957-1962	6.7	156

333	High-Performance Lithium-Air Battery with a Coaxial-Fiber Architecture. *Angewandte Chemie - International Edition*, **2016**, 55, 4487-91	16.4	153
332	A Self-Healing Aqueous Lithium-Ion Battery. *Angewandte Chemie - International Edition*, **2016**, 55, 14384-14388	16.4	151
331	Carbon Dots/NiCo O Nanocomposites with Various Morphologies for High Performance Supercapacitors. *Small*, **2016**, 12, 5927-5934	11	150
330	Walnut-Like Multicore–Shell MnO Encapsulated Nitrogen-Rich Carbon Nanocapsules as Anode Material for Long-Cycling and Soft-Packed Lithium-Ion Batteries. *Advanced Functional Materials*, **2018**, 28, 1800003	15.6	148
329	In Situ Thermal Synthesis of Inlaid Ultrathin MoS2/Graphene Nanosheets as Electrocatalysts for the Hydrogen Evolution Reaction. *Chemistry of Materials*, **2016**, 28, 5733-5742	9.6	145
328	Interfacial synthesis of porous MnO2 and its application in electrochemical capacitor. *Electrochimica Acta*, **2007**, 53, 752-757	6.7	145
327	Hybrid Aqueous Energy Storage Cells Using Activated Carbon and Lithium-Ion Intercalated Compounds: II. Comparison of , , and Positive Electrodes. *Journal of the Electrochemical Society*, **2006**, 153, A1425	3.9	144
326	Recent Advances in Polymer Electrolytes for Zinc Ion Batteries: Mechanisms, Properties, and Perspectives. *Advanced Energy Materials*, **2020**, 10, 1903977	21.8	144
325	High-surface vanadium oxides with large capacities for lithium-ion batteries: from hydrated aerogel to nanocrystalline VO2(B), V6O13 and V2O5. *Journal of Materials Chemistry*, **2011**, 21, 10999		143
324	Graphene-Supported Nitrogen and Boron Rich Carbon Layer for Improved Performance of Lithium–Sulfur Batteries Due to Enhanced Chemisorption of Lithium Polysulfides. *Advanced Energy Materials*, **2016**, 6, 1501733	21.8	140
323	B-doped Carbon Coating Improves the Electrochemical Performance of Electrode Materials for Li-ion Batteries. *Advanced Functional Materials*, **2014**, 24, 5511-5521	15.6	139
322	Multi-functional Flexible Aqueous Sodium-Ion Batteries with High Safety. *CheM*, **2017**, 3, 348-362	16.2	135
321	Egg-Derived Mesoporous Carbon Microspheres as Bifunctional Oxygen Evolution and Oxygen Reduction Electrocatalysts. *Advanced Energy Materials*, **2016**, 6, 1600794	21.8	133
320	To draw an air electrode of a Li–air battery by pencil. *Energy and Environmental Science*, **2011**, 4, 1704	35.4	132
319	In situ encapsulation of core–shell-structured Co@Co3O4 into nitrogen-doped carbon polyhedra as a bifunctional catalyst for rechargeable Zn–air batteries. *Journal of Materials Chemistry A*, **2018**, 6, 1443-1453	12	129
318	High Electrocatalytic Performance of Mn3O4/Mesoporous Carbon Composite for Oxygen Reduction in Alkaline Solutions. *Chemistry of Materials*, **2007**, 19, 2095-2101	9.6	126
317	Organic-Inorganic-Induced Polymer Intercalation into Layered Composites for Aqueous Zinc-Ion Battery. *CheM*, **2020**, 6, 968-984	16.2	124
316	In-situ synthesis of graphene/nitrogen-doped ordered mesoporous carbon nanosheet for supercapacitor application. *Carbon*, **2016**, 96, 955-964	10.4	123

315	Facile synthesis of NaV6O15 nanorods and its electrochemical behavior as cathode material in rechargeable lithium batteries. *Journal of Materials Chemistry*, **2009**, 19, 7885		123
314	Construction of unique NiCo2O4 nanowire@CoMoO4 nanoplate core/shell arrays on Ni foam for high areal capacitance supercapacitors. *Journal of Materials Chemistry A*, **2014**, 2, 4954	13	122
313	Flexible Aqueous Lithium-Ion Battery with High Safety and Large Volumetric Energy Density. *Angewandte Chemie - International Edition*, **2016**, 55, 7474-7	16.4	122
312	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. *Nanoscale*, **2017**, 9, 1237-1243	7.7	121
311	Bonding Polyether onto ZnO Nanoparticles: An Effective Method for Preparing Polymer Nanocomposites with Tunable Luminescence and Stable Conductivity. *Advanced Functional Materials*, **2005**, 15, 1751-1756	15.6	121
310	Elastic and Wearable Wire-Shaped Lithium-Ion Battery with High Electrochemical Performance. *Angewandte Chemie*, **2014**, 126, 7998-8003	3.6	119
309	Highly Branched VS Nanodendrites with 1D Atomic-Chain Structure as a Promising Cathode Material for Long-Cycling Magnesium Batteries. *Advanced Materials*, **2018**, 30, e1802563	24	119
308	A nitrogen-doped ordered mesoporous carbon nanofiber array for supercapacitors. *Journal of Materials Chemistry A*, **2013**, 1, 8488	13	116
307	A PEO-based gel polymer electrolyte for lithium ion batteries. *RSC Advances*, **2017**, 7, 23494-23501	3.7	115
306	A Rechargeable Li-CO Battery with a Gel Polymer Electrolyte. *Angewandte Chemie - International Edition*, **2017**, 56, 9126-9130	16.4	115
305	Synthesis of triaxial LiFePO4 nanowire with a VGCF core column and a carbon shell through the electrospinning method. *ACS Applied Materials & Interfaces*, **2010**, 2, 212-8	9.5	111
304	Design and synthesis of a novel nanothorn VO2(B) hollow microsphere and their application in lithium-ion batteries. *Journal of Materials Chemistry*, **2009**, 19, 2835		111
303	MoS2-Based All-Purpose Fibrous Electrode and Self-Powering Energy Fiber for Efficient Energy Harvesting and Storage. *Advanced Energy Materials*, **2017**, 7, 1601208	21.8	110
302	Design of a Hierarchical Ternary Hybrid for a Fiber-Shaped Asymmetric Supercapacitor with High Volumetric Energy Density. *Journal of Physical Chemistry C*, **2016**, 120, 9685-9691	3.8	109
301	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. *Angewandte Chemie*, **2018**, 130, 11911-11915	3.6	106
300	A Polyaniline-Intercalated Layered Manganese Oxide Nanocomposite Prepared by an Inorganic/Organic Interface Reaction and Its High Electrochemical Performance for Li Storage. *Advanced Materials*, **2008**, 20, 2166-2170	24	106
299	Double-Nanocarbon Synergistically Modified Na3V2(PO4)3: An Advanced Cathode for High-Rate and Long-Life Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 15341-51	9.5	102
298	Humidity effect on electrochemical performance of LiO2 batteries. *Journal of Power Sources*, **2014**, 264, 1-7	8.9	101

297	Synthesis and electrochemical properties of single-crystalline LiV3O8 nanorods as cathode materials for rechargeable lithium batteries. *Journal of Power Sources*, **2009**, 192, 668-673	8.9	101
296	Electrochemical profile of nano-particle CoAl double hydroxide/active carbon supercapacitor using KOH electrolyte solution. *Journal of Power Sources*, **2006**, 153, 191-196	8.9	101
295	A Long-Life Lithium-Air Battery in Ambient Air with a Polymer Electrolyte Containing a Redox Mediator. *Angewandte Chemie - International Edition*, **2017**, 56, 7505-7509	16.4	100
294	A Li-air fuel cell with recycle aqueous electrolyte for improved stability. *Electrochemistry Communications*, **2010**, 12, 1686-1689	5.1	100
293	Roles of carbon nanotubes in novel energy storage devices. *Carbon*, **2017**, 122, 462-474	10.4	99
292	High-Energy Rechargeable Metallic Lithium Battery at -70 °C Enabled by a Cosolvent Electrolyte. *Angewandte Chemie - International Edition*, **2019**, 58, 5623-5627	16.4	97
291	Electrochemical Capacitance Performance of Hybrid Supercapacitors Based on Ni(OH)[sub 2]‐Carbon Nanotube Composites and Activated Carbon. *Journal of the Electrochemical Society*, **2006**, 153, A743	3.9	96
290	Ionic liquid-immobilized polymer gel electrolyte with self-healing capability, high ionic conductivity and heat resistance for dendrite-free lithium metal batteries. *Nano Energy*, **2018**, 54, 17-25	17.1	96
289	All-Organic Rechargeable Battery with Reversibility Supported by "Water-in-Salt" Electrolyte. *Chemistry - A European Journal*, **2017**, 23, 2560-2565	4.8	95
288	Rechargeable Ni-Li battery integrated aqueous/nonaqueous system. *Journal of the American Chemical Society*, **2009**, 131, 15098-9	16.4	95
287	Hierarchical porous carbon materials with high capacitance derived from Schiff-base networks. *ACS Applied Materials & Interfaces*, **2015**, 7, 5811-9	9.5	93
286	Facile hydrothermal synthesis of hierarchical ultrathin mesoporous NiMoO4 nanosheets for high performance supercapacitors. *Electrochimica Acta*, **2014**, 115, 358-363	6.7	93
285	Leaf-Like Graphene-Oxide-Wrapped Sulfur for High-Performance Lithium-Sulfur Battery. *Advanced Science*, **2015**, 2, 1500071	13.6	93
284	Single-crystal H2V3O8 nanowires: a competitive anode with large capacity for aqueous lithium-ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 1780-1787		90
283	Binding Zinc Ions by Carboxyl Groups from Adjacent Molecules toward Long-Life Aqueous Zinc-Organic Batteries. *Advanced Materials*, **2020**, 32, e2000338	24	89
282	High energy density hybrid lithium-ion capacitor enabled by Co3ZnC@N-doped carbon nanopolyhedra anode and microporous carbon cathode. *Energy Storage Materials*, **2018**, 14, 246-252	19.4	88
281	Improved electrochemical performance of the Na3V2(PO4)3 cathode by B-doping of the carbon coating layer for sodium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 15190-15201	13	87
280	A competitive candidate material for aqueous supercapacitors: High surface-area graphite. *Journal of Power Sources*, **2008**, 185, 1557-1562	8.9	87

279	Atomic Substitution Enabled Synthesis of Vacancy-Rich Two-Dimensional Black TiO Nanoflakes for High-Performance Rechargeable Magnesium Batteries. *ACS Nano*, **2018**, 12, 12492-12502	16.7	85
278	Realizing both high energy and high power densities by twisting three carbon-nanotube-based hybrid fibers. *Angewandte Chemie - International Edition*, **2015**, 54, 11177-82	16.4	83
277	A lithium–air capacitor–battery based on a hybrid electrolyte. *Energy and Environmental Science*, **2011**, 4, 4994	35.4	82
276	Polyimide as anode electrode material for rechargeable sodium batteries. *RSC Advances*, **2014**, 4, 25369-25373	3.7	81
275	The Design of a LiFePO4/Carbon Nanocomposite With a Core–Shell Structure and Its Synthesis by an In Situ Polymerization Restriction Method. *Angewandte Chemie*, **2008**, 120, 7571-7575	3.6	80
274	Carbon quantum dots anchoring MnO2/graphene aerogel exhibits excellent performance as electrode materials for supercapacitor. *Journal of Power Sources*, **2018**, 398, 167-174	8.9	79
273	The development of a new type of rechargeable batteries based on hybrid electrolytes. *ChemSusChem*, **2010**, 3, 1009-19	8.3	78
272	Lithium-Ion Intercalation Behavior of LiFePO[sub 4] in Aqueous and Nonaqueous Electrolyte Solutions. *Journal of the Electrochemical Society*, **2008**, 155, A144	3.9	76
271	Li2TiSiO5: a low potential and large capacity Ti-based anode material for Li-ion batteries. *Energy and Environmental Science*, **2017**, 10, 1456-1464	35.4	73
270	Morphology controlled synthesis of NiCo2O4 nanosheet array nanostructures on nickel foam and their application for pseudocapacitors. *Electrochimica Acta*, **2014**, 142, 118-124	6.7	72
269	Electrochemical performance comparison of LiFePO4 supported by various carbon materials. *Electrochimica Acta*, **2013**, 88, 632-638	6.7	72
268	Binary Li4Ti5O12-Li2Ti3O7 Nanocomposite as an Anode Material for Li-Ion Batteries. *Advanced Functional Materials*, **2013**, 23, 640-647	15.6	71
267	A Li-liquid cathode battery based on a hybrid electrolyte. *ChemSusChem*, **2011**, 4, 1087-90	8.3	70
266	Anchoring an Artificial Solid-Electrolyte Interphase Layer on a 3D Current Collector for High-Performance Lithium Anodes. *Angewandte Chemie - International Edition*, **2019**, 58, 2093-2097	16.4	69
265	Scalable production of high-performing woven lithium-ion fibre batteries. *Nature*, **2021**, 597, 57-63	50.4	69
264	Lithiophilic CuO Nanoflowers on Ti-Mesh Inducing Lithium Lateral Plating Enabling Stable Lithium-Metal Anodes with Ultrahigh Rates and Ultralong Cycle Life. *Advanced Energy Materials*, **2019**, 9, 1900853	21.8	67
263	Molecular Design of Fused-Ring Phenazine Derivatives for Long-Cycling Alkaline Redox Flow Batteries. *ACS Energy Letters*, **2020**, 5, 411-417	20.1	67
262	Titanium nitride catalyst cathode in a Li-air fuel cell with an acidic aqueous solution. *Chemical Communications*, **2011**, 47, 10701-3	5.8	66

261	In Situ Growth of NiFe Alloy Nanoparticles Embedded into N-Doped Bamboo-like Carbon Nanotubes as a Bifunctional Electrocatalyst for Zn-Air Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 26178-26187	9.5	66
260	A lithium air battery with a lithiated Al-carbon anode. *Chemical Communications*, **2015**, 51, 676-8	5.8	65
259	Zinc-Organic Battery with a Wide Operation-Temperature Window from -70 to 150 ℃. *Angewandte Chemie - International Edition*, **2020**, 59, 14577-14583	16.4	65
258	An organic/inorganic electrode-based hydronium-ion battery. *Nature Communications*, **2020**, 11, 959	17.4	65
257	A hierarchical structure of carbon-coated Li3VO4 nanoparticles embedded in expanded graphite for high performance lithium ion battery. *Journal of Power Sources*, **2016**, 303, 333-339	8.9	65
256	The development in aqueous lithium-ion batteries. *Journal of Energy Chemistry*, **2018**, 27, 1521-1535	12	65
255	High Performance Hybrid Supercapacitor Based on Graphene-Supported Ni(OH)2-Nanowires and Ordered Mesoporous Carbon CMK-5. *Journal of the Electrochemical Society*, **2013**, 160, A98-A104	3.9	65
254	Mixed valence CoCuMnOx spinel nanoparticles by sacrificial template method with enhanced ORR performance. *Applied Surface Science*, **2019**, 487, 1145-1151	6.7	64
253	Efficient solar-driven electrocatalytic CO reduction in a redox-medium-assisted system. *Nature Communications*, **2018**, 9, 5003	17.4	64
252	Robust Negative Electrode Materials Derived from Carbon Dots and Porous Hydrogels for High-Performance Hybrid Supercapacitors. *Advanced Materials*, **2019**, 31, e1806197	24	64
251	Flexible Lithium-Air Battery in Ambient Air with an In Situ Formed Gel Electrolyte. *Angewandte Chemie - International Edition*, **2018**, 57, 16131-16135	16.4	64
250	Synthesis of ruthenium oxide coated ordered mesoporous carbon nanofiber arrays as a catalyst for lithium oxygen battery. *Journal of Power Sources*, **2015**, 276, 181-188	8.9	63
249	Graphite Intercalation Compounds (GICs): A New Type of Promising Anode Material for Lithium-Ion Batteries. *Advanced Energy Materials*, **2014**, 4, 1300600	21.8	63
248	Carbon Quantum Dot-Induced MnO Nanowire Formation and Construction of a Binder-Free Flexible Membrane with Excellent Superhydrophilicity and Enhanced Supercapacitor Performance. *ACS Applied Materials & Interfaces*, **2017**, 9, 40394-40403	9.5	61
247	Organic Cathode Materials for Rechargeable Zinc Batteries: Mechanisms, Challenges, and Perspectives. *ChemSusChem*, **2020**, 13, 2160-2185	8.3	59
246	A lithium-air fuel cell using copper to catalyze oxygen-reduction based on copper-corrosion mechanism. *Chemical Communications*, **2010**, 46, 6305-7	5.8	59
245	The effect of alkalinity and temperature on the performance of lithium-air fuel cell with hybrid electrolytes. *Journal of Power Sources*, **2011**, 196, 5611-5616	8.9	59
244	Ordered hierarchical mesoporous/microporous carbon with optimized pore structure for supercapacitors. *Journal of Materials Chemistry A*, **2013**, 1, 1192-1200	13	58

243	All-polymer particulate slurry batteries. *Nature Communications*, **2019**, 10, 2513	17.4	57
242	A direct borohydride fuel cell using MnO2-catalyzed cathode and hydrogen storage alloy anode. *Electrochemistry Communications*, **2006**, 8, 1775-1778	5.1	57
241	High-voltage aqueous battery approaching 3 V using an acidic-alkaline double electrolyte. *Chemical Communications*, **2013**, 49, 2204-6	5.8	56
240	Carbon nanocages with nanographene shell for high-rate lithium ion batteries. *Journal of Materials Chemistry*, **2010**, 20, 9748		56
239	Ultra-long Na2Ti3O7 nanowires@carbon cloth as a binder-free flexible electrode with a large capacity and long lifetime for sodium-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 17111-17120	13	56
238	Integrated perovskite solar capacitors with high energy conversion efficiency and fast photo-charging rate. *Journal of Materials Chemistry A*, **2018**, 6, 2047-2052	13	56
237	High-Performance Alkaline Organic Redox Flow Batteries Based on 2-Hydroxy-3-carboxy-1,4-naphthoquinone. *ACS Energy Letters*, **2018**, 3, 2404-2409	20.1	56
236	Improvement on the high-rate performance of Mn-doped Na3V2(PO4)3/C as a cathode material for sodium ion batteries. *RSC Advances*, **2016**, 6, 71581-71588	3.7	55
235	Flexible, Stretchable, and Rechargeable Fiber-Shaped Zinc–Air Battery Based on Cross-Stacked Carbon Nanotube Sheets. *Angewandte Chemie*, **2015**, 127, 15610-15614	3.6	55
234	Solid-State Proton Battery Operated at Ultralow Temperature. *ACS Energy Letters*, **2020**, 5, 685-691	20.1	54
233	Hybrid Aqueous Energy Storage Cells Using Activated Carbon and Lithium-Ion Intercalated Compounds. *Journal of the Electrochemical Society*, **2007**, 154, A228	3.9	54
232	Enhanced Electrochemical Capacitance of NiO Loaded on TiO[sub 2] Nanotubes. *Journal of the Electrochemical Society*, **2005**, 152, A671	3.9	54
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230	A Highly Reversible Long-Life Li-CO Battery with a RuP -Based Catalytic Cathode. *Small*, **2019**, 15, e1803246	11	53
229	Building an Interfacial Framework: Li/Garnet Interface Stabilization through a Cu6Sn5 Layer. *ACS Energy Letters*, **2019**, 4, 1725-1731	20.1	52
228	Ruthenium oxide coated ordered mesoporous carbon nanofiber arrays: a highly bifunctional oxygen electrocatalyst for rechargeable Zn–air batteries. *Journal of Materials Chemistry A*, **2016**, 4, 6282-6289	13	52
227	Engineering a High-Energy-Density and Long Lifespan Aqueous Zinc Battery via Ammonium Vanadium Bronze. *ACS Applied Materials & Interfaces*, **2019**, 11, 20796-20803	9.5	51
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