Yong-Gang Wang

List of Publications by Year in Descending Order

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	Industrial scale production of fibre batteries by a solution-extrusion method.. *Nature Nanotechnology*, **2022**,	28.7	20
385	Building low-temperature batteries: non-aqueous or aqueous electrolyte?. *Current Opinion in Electrochemistry*, **2022**, 100949	7.2	1
384	Sodium-ion Battery with a Wide Operation-Temperature Range from -70 to 100 °C.. *Angewandte Chemie - International Edition*, **2022**, e202116930	16.4	3
383	Cathode Materials Challenge Varied with Different Electrolytes in Zinc Batteries **2022**, 4, 190-204		4
382	Hierarchical Sulfide-Rich Modification Layer on SiO/C Anode for Low-Temperature Li-Ion Batteries.. *Advanced Science*, **2022**, e2104531	13.6	4
381	Pd Doped CoO Loaded on Carbon Nanofibers as Highly Efficient Free-Standing Electrocatalyst for Oxygen Reduction and Oxygen Evolution Reactions.. *Frontiers in Chemistry*, **2021**, 9, 812375	5	
380	Progress and Prospects in Redox Mediators for Highly Reversible Lithium□Oxygen Batteries: A Minireview. *Energy & Fuels*, **2021**, 35, 19302-19319	4.1	1
379	Towards High Performance Li-S Batteries via Sulfonate-Rich COF-Modified Separator. *Advanced Materials*, **2021**, e2105178	24	34
378	Promoting Rechargeable Batteries Operated at Low Temperature. *Accounts of Chemical Research*, **2021**, 54, 3883-3894	24.3	25
377	Genome and systems biology of Melilotus albus provides insights into coumarins biosynthesis. *Plant Biotechnology Journal*, **2021**,	11.6	1
376	Towards High-Performance Zinc-Based Hybrid Supercapacitors via Macropores-Based Charge Storage in Organic Electrolytes. *Angewandte Chemie - International Edition*, **2021**, 60, 9610-9617	16.4	29
375	Towards High-Performance Zinc-Based Hybrid Supercapacitors via Macropores-Based Charge Storage in Organic Electrolytes. *Angewandte Chemie*, **2021**, 133, 9696-9703	3.6	5
374	A universal method for rapid identification of alfalfa and burr medic seeds with an emphasis on discriminating different forage species. *Grass and Forage Science*, **2021**, 76, 353-362	2.3	
373	Mechanochemical Synthesis of Pt/NbCT MXene Composites for Enhanced Electrocatalytic Hydrogen Evolution. *Materials*, **2021**, 14,	3.5	5
372	Revisiting the designing criteria of advanced solid electrolyte interphase on lithium metal anode under practical condition. *Nano Energy*, **2021**, 83, 105847	17.1	29
371	Direct View on the Origin of High Li+ Transfer Impedance in All-Solid-State Battery. *Advanced Functional Materials*, **2021**, 31, 2103971	15.6	5
370	Activity Origin and Catalyst Design Principles for Electrocatalytic Oxygen Evolution on Layered Transition Metal Oxide with Halogen Doping. *Small Structures*, **2021**, 2, 2100069	8.7	6

369	Decoupled amphoteric water electrolysis and its integration with Mn$_2$Zn battery for flexible utilization of renewables. *Energy and Environmental Science*, **2021**, 14, 883-889	35.4	15
368	Ultrathin Silicon Nanolayer Implanted NixSi/Ni Nanoparticles as Superlong-Cycle Lithium-Ion Anode Material. *Small Structures*, **2021**, 2, 2000126	8.7	10
367	The genome of Cleistogenes songorica provides a blueprint for functional dissection of dimorphic flower differentiation and drought adaptability. *Plant Biotechnology Journal*, **2021**, 19, 532-547	11.6	10
366	Prevention of Na Corrosion and Dendrite Growth for Long-Life Flexible Na-Air Batteries. *ACS Central Science*, **2021**, 7, 335-344	16.8	9
365	Topology design of digital metamaterials for ultra-compact integrated photonic devices based on mode manipulation. *Nanoscale Advances*, **2021**, 3, 4579-4588	5.1	1
364	Mechanism-of-Action Elucidation of Reversible Li-CO Batteries Using the Water-in-Salt Electrolyte. *ACS Applied Materials & Interfaces*, **2021**, 13, 7396-7404	9.5	9
363	Stable High-Voltage Aqueous Zinc Battery Based on Carbon-Coated NaVPO4F Cathode. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 3223-3231	8.3	8
362	Green Synthesis and Optimization of 3D Nitrogen-Doped Carbon Network via Biomass Waste for Highly Efficient Bisphenol S Adsorption. *ChemistrySelect*, **2021**, 6, 6348-6352	1.8	0
361	A High-Voltage Zn$_2$Organic Battery Using a Nonflammable Organic Electrolyte. *Angewandte Chemie*, **2021**, 133, 21193-21200	3.6	0
360	A High-Voltage Zn-Organic Battery Using a Nonflammable Organic Electrolyte. *Angewandte Chemie - International Edition*, **2021**, 60, 21025-21032	16.4	15
359	Advanced Electrolyte Design for High-Energy-Density Li-Metal Batteries under Practical Conditions. *Angewandte Chemie*, **2021**, 133, 25828	3.6	8
358	Molecular Tailoring of an n/p-type Phenothiazine Organic Scaffold for Zinc Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 20826-20832	16.4	13
357	Advanced Electrolyte Design for High-Energy-Density Li-Metal Batteries under Practical Conditions. *Angewandte Chemie - International Edition*, **2021**, 60, 25624-25638	16.4	17
356	Molecular Tailoring of an n/p-type Phenothiazine Organic Scaffold for Zinc Batteries. *Angewandte Chemie*, **2021**, 133, 20994-21000	3.6	5
355	Chemically Self-Charging Aqueous Zinc-Organic Battery. *Journal of the American Chemical Society*, **2021**, 143, 15369-15377	16.4	16
354	A Desolvation-Free Sodium Dual-Ion Chemistry for High Power Density and Extremely Low Temperature. *Angewandte Chemie*, **2021**, 133, 24051	3.6	2
353	Scalable production of high-performing woven lithium-ion fibre batteries. *Nature*, **2021**, 597, 57-63	50.4	69
352	A Desolvation-Free Sodium Dual-Ion Chemistry for High Power Density and Extremely Low Temperature. *Angewandte Chemie - International Edition*, **2021**, 60, 23858-23862	16.4	8

351	Hybrid Li-Ion Capacitor Operated within an All-Climate Temperature Range from -60 to +55 ℃. *ACS Applied Materials & Interfaces*, **2021**, 13, 45630-45638	9.5	2
350	An all-climate CFx/Li battery with mechanism-guided electrolyte. *Energy Storage Materials*, **2021**, 42, 477-483	19.4	11
349	Self-assembled ZnO-carbon dots anode materials for high performance nickel-zinc alkaline batteries. *Chemical Engineering Journal*, **2021**, 425, 130660	14.7	7
348	Aqueous rechargeable zinc batteries: Challenges and opportunities. *Current Opinion in Electrochemistry*, **2021**, 30, 100801	7.2	3
347	Ammonium-ion batteries with a wide operating temperature window from 40 to 80℃. *EScience*, **2021**, 1, 212-218		8
346	Extra lithium-ion storage capacity enabled by liquid-phase exfoliated indium selenide nanosheets conductive network. *Energy and Environmental Science*, **2020**, 13, 2124-2133	35.4	20
345	In situ structural evolution of the multi-site alloy electrocatalyst to manipulate the intermediate for enhanced water oxidation reaction. *Energy and Environmental Science*, **2020**, 13, 2200-2208	35.4	41
344	Salt-rich solid electrolyte interphase for safer high-energy-density Li metal batteries with limited Li excess. *Chemical Communications*, **2020**, 56, 8257-8260	5.8	7
343	Zinc-Organic Battery with a Wide Operation-Temperature Window from -70 to 150 ℃. *Angewandte Chemie - International Edition*, **2020**, 59, 14577-14583	16.4	65
342	Zinc□Organic Battery with a Wide Operation-Temperature Window from 70 to 150 ℃. *Angewandte Chemie*, **2020**, 132, 14685-14691	3.6	28
341	A High-Rate and Long-Life Rechargeable Battery Operated at 75 oC. *Batteries and Supercaps*, **2020**, 3, 1016-1020	5.6	11
340	Low-Temperature Charge/Discharge of Rechargeable Battery Realized by Intercalation Pseudocapacitive Behavior. *Advanced Science*, **2020**, 7, 2000196	13.6	45
339	Binding Zinc Ions by Carboxyl Groups from Adjacent Molecules toward Long-Life Aqueous Zinc-Organic Batteries. *Advanced Materials*, **2020**, 32, e2000338	24	89
338	Energizing hybrid supercapacitors by using Mn2+-based active electrolyte. *Journal of Materials Chemistry A*, **2020**, 8, 15051-15057	13	8
337	Garnet-Based All-Ceramic Lithium Battery Enabled by LiBOCl Solder. *IScience*, **2020**, 23, 101071	6.1	11
336	Organic Cathode Materials for Rechargeable Zinc Batteries: Mechanisms, Challenges, and Perspectives. *ChemSusChem*, **2020**, 13, 2160-2185	8.3	59
335	Intercalation Pseudocapacitive Nanoscale Nickel [email□protected] Nanotubes as a High-Rate Cathode Material for Aqueous Sodium-Ion Battery. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 3655-3663	8.3	19
334	An organic/inorganic electrode-based hydronium-ion battery. *Nature Communications*, **2020**, 11, 959	17.4	65

333	An aqueous manganese–lead battery for large-scale energy storage. *Journal of Materials Chemistry A*, **2020**, 8, 5959-5967	13	10
332	Organic-Inorganic-Induced Polymer Intercalation into Layered Composites for Aqueous Zinc-Ion Battery. *CheM*, **2020**, 6, 968-984	16.2	124
331	Highly Reversible Zn Anode Enabled by Controllable Formation of Nucleation Sites for Zn-Based Batteries. *Advanced Functional Materials*, **2020**, 30, 1908528	15.6	239
330	Li/Garnet Interface Stabilization by Thermal-Decomposition Vapor Deposition of an Amorphous Carbon Layer. *Angewandte Chemie - International Edition*, **2020**, 59, 5346-5349	16.4	22
329	Using Na7V4(P2O7)4(PO4) with superior Na storage performance as bipolar electrodes to build a novel high-energy-density symmetric sodium-ion full battery. *Journal of Power Sources*, **2020**, 451, 227734	8.9	11
328	Solid-State Proton Battery Operated at Ultralow Temperature. *ACS Energy Letters*, **2020**, 5, 685-691	20.1	54
327	Li-air Battery with a Superhydrophobic Li-Protective Layer. *ACS Applied Materials & Interfaces*, **2020**, 12, 23010-23016	9.5	14
326	A New Strategy of Constructing a Highly Fluorinated Solid-Electrolyte Interface towards High-Performance Lithium Anode. *Advanced Materials Interfaces*, **2020**, 7, 2000154	4.6	12
325	Progress of Organic Electrodes in Aqueous Electrolyte for Energy Storage and Conversion. *Angewandte Chemie - International Edition*, **2020**, 59, 18322-18333	16.4	40
324	Progress of Organic Electrodes in Aqueous Electrolyte for Energy Storage and Conversion. *Angewandte Chemie*, **2020**, 132, 18478-18489	3.6	14
323	Covalent organic framework-based ultrathin crystalline porous film: manipulating uniformity of fluoride distribution for stabilizing lithium metal anode. *Journal of Materials Chemistry A*, **2020**, 8, 3459-3467	13	38
322	Hybrid electrolyte for advanced rechargeable batteries. *Science Bulletin*, **2020**, 65, 92-93	10.6	0
321	Molecular Design of Fused-Ring Phenazine Derivatives for Long-Cycling Alkaline Redox Flow Batteries. *ACS Energy Letters*, **2020**, 5, 411-417	20.1	67
320	Pencil-drawing on nitrogen and sulfur co-doped carbon paper: An effective and stable host to pre-store Li for high-performance lithium–air batteries. *Energy Storage Materials*, **2020**, 26, 593-603	19.4	20
319	Space-Confined Atomic Clusters Catalyze Superassembly of Silicon Nanodots within Carbon Frameworks for Use in Lithium-Ion Batteries. *Angewandte Chemie*, **2020**, 132, 3161-3166	3.6	11
318	Space-Confined Atomic Clusters Catalyze Superassembly of Silicon Nanodots within Carbon Frameworks for Use in Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 3137-3142	16.4	34
317	Integrated analysis of co-expression, conserved genes and gene families reveal core regulatory network of heat stress response in Cleistogenes songorica, a xerophyte perennial desert plant. *BMC Genomics*, **2020**, 21, 715	4.5	3
316	Organic Flow Batteries: Recent Progress and Perspectives. *Energy & Fuels*, **2020**, 34, 13384-13411	4.1	24

315	Annealing-Free Platinum–Cobalt Alloy Nanoparticles on Nitrogen-Doped Mesoporous Carbon with Boosted Oxygen Electroreduction Performance. *ChemElectroChem*, **2020**, 7, 3341-3346	4.3	2
314	Stabilized Rechargeable Aqueous Zinc Batteries Using Ethylene Glycol as Water Blocker. *ChemSusChem*, **2020**, 13, 5556-5564	8.3	25
313	Efficient Renewable-to-Hydrogen Conversion via Decoupled Electrochemical Water Splitting. *Cell Reports Physical Science*, **2020**, 1, 100138	6.1	16
312	Highly Stable Lithium–Sulfur Batteries Achieved by a SnS/Porous Carbon Nanosheet Architecture Modified Celgard Separator. *Advanced Functional Materials*, **2020**, 30, 2006297	15.6	18
311	Genome-Wide Identification of NAC Transcription Factor Family and Functional Analysis of the Abiotic Stress-Responsive Genes in Medicago sativa L.. *Journal of Plant Growth Regulation*, **2020**, 39, 324-337	4.7	9
310	Coordinated mechanisms of leaves and roots in response to drought stress underlying full-length transcriptome profiling in Vicia sativa L. *BMC Plant Biology*, **2020**, 20, 165	5.3	9
309	Recent Advances in Polymer Electrolytes for Zinc Ion Batteries: Mechanisms, Properties, and Perspectives. *Advanced Energy Materials*, **2020**, 10, 1903977	21.8	144
308	Boosting Polysulfide Redox Kinetics by Graphene-Supported Ni Nanoparticles with Carbon Coating. *Advanced Energy Materials*, **2020**, 10, 2000907	21.8	46
307	Lithium ion storage in lithium titanium germanate. *Nano Energy*, **2019**, 66, 104094	17.1	7
306	Nano-Cu-embedded carbon for dendrite-free lithium metal anodes. *Journal of Materials Chemistry A* , **2019**, 7, 22930-22938	13	12
305	Dynamic visualization of the phase transformation path in LiFePO during delithiation. *Nanoscale*, **2019**, 11, 17557-17562	7.7	7
304	Low-cost and high safe manganese-based aqueous battery for grid energy storage and conversion. *Science Bulletin*, **2019**, 64, 1780-1787	10.6	31
303	Organic Proton-Buffer Electrode to Separate Hydrogen and Oxygen Evolution in Acid Water Electrolysis. *Angewandte Chemie*, **2019**, 131, 4670-4674	3.6	3
302	Organic Proton-Buffer Electrode to Separate Hydrogen and Oxygen Evolution in Acid Water Electrolysis. *Angewandte Chemie - International Edition*, **2019**, 58, 4622-4626	16.4	28
301	Niobium-Doped Titanosilicate Sitinakite Anode with Low Working Potential and High Rate for Sodium-Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 4399-4405	8.3	5
300	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
299	Building an Interfacial Framework: Li/Garnet Interface Stabilization through a Cu6Sn5 Layer. *ACS Energy Letters*, **2019**, 4, 1725-1731	20.1	52
298	All-polymer particulate slurry batteries. *Nature Communications*, **2019**, 10, 2513	17.4	57

297	van der Waals Epitaxial Growth and Interfacial Passivation of Two-Dimensional Single-Crystalline Few-Layer Gray Arsenic Nanoflakes. *Chemistry of Materials*, **2019**, 31, 4524-4535	9.6	23
296	Mixed valence CoCuMnOx spinel nanoparticles by sacrificial template method with enhanced ORR performance. *Applied Surface Science*, **2019**, 487, 1145-1151	6.7	64
295	EST-SSR marker development based on RNA-sequencing of E. sibiricus and its application for phylogenetic relationships analysis of seventeen Elymus species. *BMC Plant Biology*, **2019**, 19, 235	5.3	19
294	Li/Na Ion Intercalation Process into Sodium Titanosilicate as Anode Material. *Batteries and Supercaps*, **2019**, 2, 867-873	5.6	4
293	High-performance Li-ion capacitor based on black-TiO2-x/graphene aerogel anode and biomass-derived microporous carbon cathode. *Nano Research*, **2019**, 12, 1713-1719	10	42
292	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
291	A polar TiO/MWCNT coating on a separator significantly suppress the shuttle effect in a lithium-sulfur battery. *Electrochimica Acta*, **2019**, 310, 1-12	6.7	31
290	A novel aqueous Li+ (or Na+)/Br□hybrid-ion battery with super high areal capacity and energy density. *Journal of Materials Chemistry A*, **2019**, 7, 13050-13059	13	8
289	Improved electrochemical performance of high voltage cathode Na3V2(PO4)2F3 for Na-ion batteries through potassium doping. *Journal of Alloys and Compounds*, **2019**, 790, 203-211	5.7	35
288	A dendrite-free Li plating host towards high utilization of Li metal anode in Li□2 battery. *Science Bulletin*, **2019**, 64, 478-484	10.6	10
287	A Metal-Organic Framework Host for Highly Reversible Dendrite-free Zinc Metal Anodes. *Joule*, **2019**, 3, 1289-1300	27.8	351
286	Creating an Air-Stable Sulfur-Doped Black Phosphorus-TiO2 Composite as High-Performance Anode Material for Sodium-Ion Storage. *Advanced Functional Materials*, **2019**, 29, 1900535	15.6	36
285	A few-layered MoS nanosheets/nitrogen-doped graphene 3D aerogel as a high performance and long-term stability supercapacitor electrode. *Nanoscale*, **2019**, 11, 4318-4327	7.7	34
284	Genome-Wide Identification and Expression Profiling of the Gene Family in L. Under Various Abiotic Stresses. *DNA and Cell Biology*, **2019**, 38, 1056-1068	3.6	14
283	A versatile single-ion electrolyte with a Grotthuss-like Li conduction mechanism for dendrite-free Li metal batteries. *Energy and Environmental Science*, **2019**, 12, 2741-2750	35.4	49
282	An Al-doped high voltage cathode of Na4Co3(PO4)2P2O7 enabling highly stable 4 V full sodium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 18940-18949	13	21
281	CNT-Decorated NaMnCo(PO)PO Microspheres as a Novel High-Voltage Cathode Material for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 27813-27822	9.5	19
280	Rose-like vanadium disulfide coated by hydrophilic hydroxyvanadium oxide with improved electrochemical performance as cathode material for aqueous zinc-ion batteries. *Journal of Power Sources*, **2019**, 437, 226917	8.9	35

279	Oxygen vacancies enhance the electrochemical performance of carbon-coated TiP2O7-y anode in aqueous lithium ion batteries. *Electrochimica Acta*, **2019**, 320, 134555	6.7	10
278	Catalytic Cathodes: A Highly Reversible Long-Life Li□O2 Battery with a RuP2-Based Catalytic Cathode (Small 29/2019). *Small*, **2019**, 15, 1970155	11	1
277	An All-Solid-State Sodium□Sulfur Battery Using a Sulfur/Carbonized Polyacrylonitrile Composite Cathode. *ACS Applied Energy Materials*, **2019**, 2, 5263-5271	6.1	29
276	Hierarchical micro□nanostructured and Al3+□oped Li1.2Ni0.2Mn0.6O2 active materials with enhanced electrochemical properties as cathode materials for Li□on batteries. *Scripta Materialia*, **2019**, 171, 47-51	5.6	2
275	Positive Surface Pseudocapacitive Behavior-Induced Fast and Large Li-ion Storage in Mesoporous LiMnPO @C Nanofibers. *ChemSusChem*, **2019**, 12, 3817-3826	8.3	12
274	Dual oxidation by hybrid electrode: Efficiency enhancement of direct hypophosphite fuel cell. *Journal of Power Sources*, **2019**, 438, 226983	8.9	2
273	Synergistic Effects of Salt Concentration and Working Temperature towards Dendrite-Free Lithium Deposition. *Research*, **2019**, 2019, 7481319	7.8	5
272	Hydrothermal two-dimensionalisation to porous ZnCo2O4 nanosheets non-platinum ORR catalyst. *Micro and Nano Letters*, **2019**, 14, 665-668	0.9	1
271	Dual Lithiophilic Structure for Uniform Li Deposition. *ACS Applied Materials & Interfaces*, **2019**, 11, 10616-10623	9.5	29
270	Transcriptome-Wide Characterization and Functional Identification of the Aquaporin Gene Family During Drought Stress in Common Vetch. *DNA and Cell Biology*, **2019**, 38, 374-384	3.6	7
269	High-Energy Rechargeable Metallic Lithium Battery at □70 □C Enabled by a Cosolvent Electrolyte. *Angewandte Chemie*, **2019**, 131, 5679-5683	3.6	38
268	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
267	Effects of organic solvents on morphologies, photoluminescence, and photocatalytic properties of ZnO nanostructures. *Micro and Nano Letters*, **2019**, 14, 1146-1150	0.9	2
266	Construction of the first high-density genetic linkage map and identification of seed yield-related QTLs and candidate genes in Elymus sibiricus, an important forage grass in Qinghai-Tibet Plateau. *BMC Genomics*, **2019**, 20, 861	4.5	0
265	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
264	Ultrafast and ultrastable high voltage cathode of Na2+2xFe2-x(SO4)3 microsphere scaffolded by graphene for sodium ion batteries. *Electrochimica Acta*, **2019**, 296, 345-354	6.7	11
263	Redox-Mediator-Enhanced Electrochemical Capacitors: Recent Advances and Future Perspectives. *ChemSusChem*, **2019**, 12, 1118-1132	8.3	40
262	Genome-wide identification and characterization of the aquaporin gene family in Medicago truncatula. *Journal of Plant Biochemistry and Biotechnology*, **2019**, 28, 320-335	1.6	9

261	Anchoring an Artificial Solid□Electrolyte Interphase Layer on a 3D Current Collector for High-Performance Lithium Anodes. *Angewandte Chemie*, **2019**, 131, 2115-2119	3.6	8
260	Ru nanosheet catalyst supported by three-dimensional nickel foam as a binder-free cathode for Li□O2 batteries. *Electrochimica Acta*, **2019**, 299, 592-599	6.7	35
259	A Highly Reversible Long-Life Li-CO Battery with a RuP -Based Catalytic Cathode. *Small*, **2019**, 15, e1803246	246	53
258	Recent Progress of Rechargeable Batteries Using Mild Aqueous Electrolytes. *Small Methods*, **2019**, 3, 1800272	12.8	259
257	Robust Negative Electrode Materials Derived from Carbon Dots and Porous Hydrogels for High-Performance Hybrid Supercapacitors. *Advanced Materials*, **2019**, 31, e1806197	24	64
256	Organic Batteries Operated at □0□C. *Joule*, **2018**, 2, 902-913	27.8	172
255	A flexible polymer-based Li□air battery using a reduced graphene oxide/Li composite anode. *Journal of Materials Chemistry A*, **2018**, 6, 6022-6032	13	42
254	Highly stable carbon coated Mg2Si intermetallic nanoparticles for lithium-ion battery anode. *Journal of Power Sources*, **2018**, 384, 10-17	8.9	25
253	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
252	Integrating Desalination and Energy Storage using a Saltwater-based Hybrid Sodium-ion Supercapacitor. *ChemSusChem*, **2018**, 11, 1741-1745	8.3	23
251	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
250	Ultrasmall TiO-Coated Reduced Graphene Oxide Composite as a High-Rate and Long-Cycle-Life Anode Material for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 14818-14826	9.5	45
249	A clean and membrane-free chlor-alkali process with decoupled Cl and H/NaOH production. *Nature Communications*, **2018**, 9, 438	17.4	42
248	Decoupling Hydrogen and Oxygen Production in Acidic Water Electrolysis Using a Polytriphenylamine-Based Battery Electrode. *Angewandte Chemie - International Edition*, **2018**, 57, 2904-2908	16.4	45
247	Interface Engineering of Anchored Ultrathin TiO/MoS Heterolayers for Highly-Efficient Electrochemical Hydrogen Production. *ACS Applied Materials & Interfaces*, **2018**, 10, 6084-6089	9.5	43
246	A high voltage cathode of Na2+2xFe2□(SO4)3 intensively protected by nitrogen-doped graphene with improved electrochemical performance of sodium storage. *Journal of Materials Chemistry A*, **2018**, 6, 4354-4364	13	30
245	Li2TiSiO5 and expanded graphite nanocomposite anode material with□improved rate performance for lithium-ion batteries. *Electrochimica Acta*, **2018**, 260, 695-702	6.7	26
244	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

243	Nature-Derived Approach to Oxygen and Chlorine Dual-Vacancies for Efficient Photocatalysis and Photoelectrochemistry. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 2395-2406	8.3	50
242	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
241	Progress in Aqueous Rechargeable Sodium-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1703008	21.8	188
240	Decoupling Hydrogen and Oxygen Production in Acidic Water Electrolysis Using a Polytriphenylamine-Based Battery Electrode. *Angewandte Chemie*, **2018**, 130, 2954-2958	3.6	12
239	A gel polymer electrolyte based lithium-sulfur battery with low self-discharge. *Solid State Ionics*, **2018**, 318, 82-87	3.3	32
238	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
237	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. *Angewandte Chemie*, **2018**, 130, 11911-11915	3.6	106
236	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. *Angewandte Chemie - International Edition*, **2018**, 57, 11737-11741	16.4	261
235	Self-doping of Ti3+into Na2Ti3O7 increases both ion and electron conductivity as a high-performance anode material for sodium-ion batteries. *Journal of Alloys and Compounds*, **2018**, 767, 820-828	5.7	25
234	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
233	Hypophosphites as Eco-Compatible Fuels for Membrane-Free Direct Liquid Fuel Cells. *Chemistry - A European Journal*, **2018**, 24, 10310-10314	4.8	3
232	Three-dimensional spongy framework as superlyophilic, strongly absorbing, and electrocatalytic polysulfide reservoir layer for high-rate and long-cycling lithium-sulfur batteries. *Nano Research*, **2018**, 11, 6436-6446	10	29
231	S0.87Se0.13/CPAN composites as high capacity and stable cycling performance cathode for lithium sulfur battery. *Electrochimica Acta*, **2018**, 281, 789-795	6.7	15
230	The development in aqueous lithium-ion batteries. *Journal of Energy Chemistry*, **2018**, 27, 1521-1535	12	65
229	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
228	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	13	129
227	Combining water reduction and liquid fuel oxidization by nickel hydroxide for flexible hydrogen production. *Energy Storage Materials*, **2018**, 11, 260-266	19.4	12
226	Efficient solar-driven electrocatalytic CO reduction in a redox-medium-assisted system. *Nature Communications*, **2018**, 9, 5003	17.4	64

225	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
224	Na1.68H0.32Ti2O3SiO4□1.76H2O as a Low-Potential Anode Material for Sodium-Ion Battery. *ACS Applied Energy Materials*, **2018**,	6.1	3
223	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
222	Black Phosphorus Stabilizing NaTiO/C Each Other with an Improved Electrochemical Property for Sodium-Ion Storage. *ACS Applied Materials & Interfaces*, **2018**, 10, 37163-37171	9.5	30
221	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
220	Flexible Lithium□Air Battery in Ambient Air with an In Situ Formed Gel Electrolyte. *Angewandte Chemie*, **2018**, 130, 16363-16367	3.6	5
219	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
218	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
217	Electrochemical Double-Layer Capacitor Energized by Adding an Ambipolar Organic Redox Radical into the Electrolyte. *Angewandte Chemie*, **2018**, 130, 8346-8350	3.6	10
216	Electrochemical Double-Layer Capacitor Energized by Adding an Ambipolar Organic Redox Radical into the Electrolyte. *Angewandte Chemie - International Edition*, **2018**, 57, 8214-8218	16.4	39
215	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
214	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
213	High Power Lithium-ion Battery based on Spinel Cathode and Hard Carbon Anode. *Electrochimica Acta*, **2017**, 228, 251-258	6.7	26
212	Aqueous Lithium-Ion Batteries Using Polyimide-Activated Carbon Composites Anode and Spinel LiMn2O4 Cathode. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 1503-1508	8.3	34
211	All-Organic Rechargeable Battery with Reversibility Supported by "Water-in-Salt" Electrolyte. *Chemistry - A European Journal*, **2017**, 23, 2560-2565	4.8	95
210	Bottom-up synthesis of nitrogen-doped porous carbon scaffolds for lithium and sodium storage. *Nanoscale*, **2017**, 9, 1972-1977	7.7	36
209	TiPO and Expanded Graphite Nanocomposite as Anode Material for Aqueous Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 8075-8082	9.5	39
208	Aqueous Mg-Ion Battery Based on Polyimide Anode and Prussian Blue Cathode. *ACS Energy Letters*, **2017**, 2, 1115-1121	20.1	207

207	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
206	Carbon-coated Li4Ti5O12 nanoparticles with high electrochemical performance as anode material in sodium-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 10902-10908	13	39
205	Electrochemical Performance of Li4Ti5O12 Nanowire/Fe3O4 Nanoparticle Compound as Anode Material of Lithium Ion Batteries. *Electrochimica Acta*, **2017**, 241, 179-188	6.7	14
204	A PEO-based gel polymer electrolyte for lithium ion batteries. *RSC Advances*, **2017**, 7, 23494-23501	3.7	115
203	A Multifunction Lithium□Carbon Battery System Using a Dual Electrolyte. *ACS Energy Letters*, **2017**, 2, 36-44	20.1	23
202	A Long-Life Lithium□Air Battery in Ambient Air with a Polymer Electrolyte Containing a Redox Mediator. *Angewandte Chemie*, **2017**, 129, 7613-7617	3.6	42
201	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
200	A Rechargeable Li-CO Battery with a Gel Polymer Electrolyte. *Angewandte Chemie - International Edition*, **2017**, 56, 9126-9130	16.4	115
199	A Rechargeable Li-CO2 Battery with a Gel Polymer Electrolyte. *Angewandte Chemie*, **2017**, 129, 9254-9258	3.6	15
198	Three-dimensionally ordered, ultrathin graphitic-carbon frameworks with cage-like mesoporosity for highly stable Li-S batteries. *Nano Research*, **2017**, 10, 2495-2507	10	27
197	A flexible symmetric sodium full cell constructed using the bipolar material Na3V2(PO4)3. *Journal of Materials Chemistry A*, **2017**, 5, 8440-8450	13	48
196	Manganese vanadium oxide hollow microspheres: a novel electrocatalyst for oxygen reduction reaction. *Journal of Solid State Electrochemistry*, **2017**, 21, 1743-1749	2.6	5
195	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
194	All-solid-state secondary lithium battery using solid polymer electrolyte and anthraquinone cathode. *Solid State Ionics*, **2017**, 300, 114-119	3.3	35
193	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
192	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
191	Synthesis of ZnSb@C microflower composites and their enhanced electrochemical performance for lithium-ion and sodium-ion batteries. *New Journal of Chemistry*, **2017**, 41, 13060-13066	3.6	14
190	Nanosphere of Pb-modified bismuth-based borate photocatalysts. *Micro and Nano Letters*, **2017**, 12, 430-434	0.9	2

189	One-Step Synthesis of Trirutile Oxides ZnBi2O6-Graphene Oxide with Enhanced Photocatalytic Activity. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 2006-2011	1.3	1
188	High volumetric supercapacitor with a long life span based on polymer dots and graphene sheets. *Journal of Power Sources*, **2017**, 364, 465-472	8.9	20
187	Free-Standing Sandwich-Structured Flexible Film Electrode Composed of NaTiO Nanowires@CNT and Reduced Graphene Oxide for Advanced Sodium-Ion Batteries. *ACS Omega*, **2017**, 2, 5726-5736	3.9	11
186	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
185	A sulfur□ePO4□ nanocomposite cathode for stable and anti-self-discharge lithium□sulfur batteries. *Journal of Materials Chemistry A*, **2017**, 5, 17926-17932	13	13
184	Multi-functional Flexible Aqueous Sodium-Ion Batteries with High Safety. *CheM*, **2017**, 3, 348-362	16.2	135
183	Self-generated hollow NaTi2(PO4)3 nanocubes decorated with graphene as a large capacity and long lifetime anode for sodium-ion batteries. *RSC Advances*, **2017**, 7, 56743-56751	3.7	17
182	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
181	A Simple Prelithiation Strategy To Build a High-Rate and Long-Life Lithium-Ion Battery with Improved Low-Temperature Performance. *Angewandte Chemie - International Edition*, **2017**, 56, 16606-16610	16.4	50
180	A Simple Prelithiation Strategy To Build a High-Rate and Long-Life Lithium-Ion Battery with Improved Low-Temperature Performance. *Angewandte Chemie*, **2017**, 129, 16833-16837	3.6	8
179	Improved electrochemical performance of a Li3V2(PO4)3 cathode in a wide potential window for lithium-ion storage by surface N-doped carbon coating and bulk K-doping. *New Journal of Chemistry* , **2017**, 41, 8772-8780	3.6	13
178	Crab-shell induced synthesis of ordered macroporous carbon nanofiber arrays coupled with MnCoO nanoparticles as bifunctional oxygen catalysts for rechargeable Zn-air batteries. *Nanoscale*, **2017**, 9, 11148-11157	7.7	39
177	High-Performance Li-Se Batteries Enabled by Selenium Storage in Bottom-Up Synthesized Nitrogen-Doped Carbon Scaffolds. *ACS Applied Materials & Interfaces*, **2017**, 9, 25232-25238	9.5	33
176	Roles of carbon nanotubes in novel energy storage devices. *Carbon*, **2017**, 122, 462-474	10.4	99
175	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
174	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
173	A one-step way to novel carbon-niobium nitride nanoparticles for efficient oxygen reduction. *Journal of the American Ceramic Society*, **2017**, 100, 638-646	3.8	2
172	Superb Alkaline Hydrogen Evolution and Simultaneous Electricity Generation by Pt-Decorated Ni3N Nanosheets. *Advanced Energy Materials*, **2017**, 7, 1601390	21.8	176

171	One-step hydrothermal route to synthesise BiIO4/Bi2O2 (BO2 OH) heterostructure with improved photocatalytic performance. *Micro and Nano Letters*, **2017**, 12, 944-948	0.9	1
170	Enhanced visible-light-driven photocatalytic activity in yellow and black orthorhombic NaTaO3 nanocubes by surface modification and simultaneous N/Ta(4+) co-doping. *Journal of Colloid and Interface Science*, **2016**, 461, 185-194	9.3	15
169	Electrochemical capacitors: mechanism, materials, systems, characterization and applications. *Chemical Society Reviews*, **2016**, 45, 5925-5950	58.5	2202
168	All-Inorganic Perovskite Solar Cells. *Journal of the American Chemical Society*, **2016**, 138, 15829-15832	16.4	700
167	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
166	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
165	Egg-Derived Mesoporous Carbon Microspheres as Bifunctional Oxygen Evolution and Oxygen Reduction Electrocatalysts. *Advanced Energy Materials*, **2016**, 6, 1600794	21.8	133
164	Separating hydrogen and oxygen evolution in alkaline water electrolysis using nickel hydroxide. *Nature Communications*, **2016**, 7, 11741	17.4	232
163	Pressure-Driven Cooperative Spin-Crossover, Large-Volume Collapse, and Semiconductor-to-Metal Transition in Manganese(II) Honeycomb Lattices. *Journal of the American Chemical Society*, **2016**, 138, 15751-15757	16.4	50
162	High power lithium-ion battery based on a LiMn2O4 nanorod cathode and a carbon-coated Li4Ti5O12 nanowire anode. *RSC Advances*, **2016**, 6, 107355-107363	3.7	8
161	Three-Dimensional Ordered Macroporous FePO as High-Efficiency Catalyst for Rechargeable Li-O Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 31638-31645	9.5	20
160	Low-cost and high-performance of a vertically grown 3D NiFe layered double hydroxide/graphene aerogel supercapacitor electrode material. *RSC Advances*, **2016**, 6, 107278-107285	3.7	42
159	High-Performance LithiumAir Battery with a Coaxial-Fiber Architecture. *Angewandte Chemie*, **2016**, 128, 4563-4567	3.6	22
158	Flexible Aqueous Lithium-Ion Battery with High Safety and Large Volumetric Energy Density. *Angewandte Chemie*, **2016**, 128, 7600-7603	3.6	20
157	Sodium Ion Transport Mechanisms in Antiperovskite Electrolytes Na3OBr and Na4OI2: An in Situ Neutron Diffraction Study. *Inorganic Chemistry*, **2016**, 55, 5993-8	5.1	48
156	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
155	The roles of endoplasmic reticulum stress response in female mammalian reproduction. *Cell and Tissue Research*, **2016**, 363, 589-97	4.2	45
154	Mesoporous Cd1-xZnxS microspheres with tunable bandgap and high specific surface areas for enhanced visible-light-driven hydrogen generation. *Journal of Colloid and Interface Science*, **2016**, 467, 97-104	9.3	37

153	Environmentally-friendly aqueous Li (or Na)-ion battery with fast electrode kinetics and super-long life. *Science Advances*, **2016**, 2, e1501038	14.3	245
152	Base-acid hybrid water electrolysis. *Chemical Communications*, **2016**, 52, 3147-50	5.8	19
151	New Insights into the Role of Autophagy in Ovarian Cryopreservation by Vitrification. *Biology of Reproduction*, **2016**, 94, 137	3.9	4
150	Electrochemical Profile of LiTi2(PO4)3and NaTi2(PO4)3in Lithium, Sodium or Mixed Ion Aqueous Solutions. *Journal of the Electrochemical Society*, **2016**, 163, A904-A910	3.9	33
149	Synthesis and Electrochemical Performance of Nano-sized Li4Ti5O12 Coated with Boron-Doped Carbon. *Electrochimica Acta*, **2016**, 196, 300-308	6.7	28
148	To mitigate self-discharge of lithium–sulfur batteries by optimizing ionic liquid electrolytes. *Energy and Environmental Science*, **2016**, 9, 224-231	35.4	159
147	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
146	In-situ synthesis of graphene/nitrogen-doped ordered mesoporous carbon nanosheet for supercapacitor application. *Carbon*, **2016**, 96, 955-964	10.4	123
145	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
144	Flexible Aqueous Lithium-Ion Battery with High Safety and Large Volumetric Energy Density. *Angewandte Chemie - International Edition*, **2016**, 55, 7474-7	16.4	122
143	High-Performance Lithium-Air Battery with a Coaxial-Fiber Architecture. *Angewandte Chemie - International Edition*, **2016**, 55, 4487-91	16.4	153
142	Layer Controllable Graphene Using Graphite Intercalation Compounds with Different Stage Numbers through Li Conversion Reaction. *Advanced Materials Interfaces*, **2016**, 3, 1500496	4.6	4
141	Reversible switching between pressure-induced amorphization and thermal-driven recrystallization in VO2(B) nanosheets. *Nature Communications*, **2016**, 7, 12214	17.4	30
140	Elastic, magnetic and electronic properties of iridium phosphide Ir2P. *Scientific Reports*, **2016**, 6, 21787	4.9	14
139	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
138	Emerging non-lithium ion batteries. *Energy Storage Materials*, **2016**, 4, 103-129	19.4	180
137	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
136	A Self-Healing Aqueous Lithium-Ion Battery. *Angewandte Chemie*, **2016**, 128, 14596-14600	3.6	25

135	Carbon Dots/NiCo O Nanocomposites with Various Morphologies for High Performance Supercapacitors. *Small*, **2016**, 12, 5927-5934	11	150
134	A Self-Healing Aqueous Lithium-Ion Battery. *Angewandte Chemie - International Edition*, **2016**, 55, 14384-14388	11	151
133	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
132	Hierarchical Ternary Carbide Nanoparticle/Carbon Nanotube-Inserted N-Doped Carbon Concave-Polyhedrons for Efficient Lithium and Sodium Storage. *ACS Applied Materials & Interfaces*, **2016**, 8, 26834-26841	9.5	40
131	Hierarchical porous carbon materials with high capacitance derived from Schiff-base networks. *ACS Applied Materials & Interfaces*, **2015**, 7, 5811-9	9.5	93
130	A scalable hybrid separator for a high performance lithium-sulfur battery. *Chemical Communications* , **2015**, 51, 6996-9	5.8	43
129	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
128	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
127	Aqueous Lithium-Ion Batteries Using O2Self-Elimination Polyimides Electrodes. *Journal of the Electrochemical Society*, **2015**, 162, A1972-A1977	3.9	28
126	Endoplasmic reticulum stress-mediated apoptotic pathway is involved in corpus luteum regression in rats. *Reproductive Sciences*, **2015**, 22, 572-84	3	27
125	Preparation of lithium-rich layered oxide micro-spheres using a slurry spray-drying process. *Journal of Power Sources*, **2015**, 287, 370-376	8.9	14
124	Impact of hydrostatic pressure on the crystal structure and photoluminescence properties of Mn4+-doped BaTiF6 red phosphor. *Dalton Transactions*, **2015**, 44, 7578-85	4.3	35
123	An additional discharge plateau of Mn3+ in LiFe0.5Mn0.5PO4 at high current rates. *Electrochemistry Communications*, **2015**, 55, 6-9	5.1	29
122	Hydrothermal synthesis and electrochemical performance of nanoparticle Li2FeSiO4/C cathode materials for lithium ion batteries. *Electrochimica Acta*, **2015**, 167, 340-347	6.7	12
121	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
120	A core□shell-structured TiO2(B) nanofiber@porous RuO2 composite as a carbon-free catalytic cathode for Li□O2 batteries. *Journal of Materials Chemistry A*, **2015**, 3, 21123-21132	13	27
119	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
118	Nitrogen-Doping-Induced Defects of a Carbon Coating Layer Facilitate Na-Storage in Electrode Materials. *Advanced Energy Materials*, **2015**, 5, 1400982	21.8	244

117	A lithium air battery with a lithiated Al-carbon anode. *Chemical Communications*, **2015**, 51, 676-8	5.8	65
116	Leaf-Like Graphene-Oxide-Wrapped Sulfur for High-Performance Lithium-Sulfur Battery. *Advanced Science*, **2015**, 2, 1500071	13.6	93
115	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
114	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
113	Realizing both High Energy and High Power Densities by Twisting Three Carbon-Nanotube-Based Hybrid Fibers. *Angewandte Chemie*, **2015**, 127, 11329-11334	3.6	14
112	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
111	Prognostic role of HOTAIR in four estrogen-dependent malignant tumors: a meta-analysis. *OncoTargets and Therapy*, **2015**, 8, 1471-82	4.4	18
110	A hybrid aerogel of Co–Al layered double hydroxide/graphene with three-dimensional porous structure as a novel electrode material for supercapacitors. *RSC Advances*, **2015**, 5, 26017-26026	3.7	22
109	Cycling Stability of Spinel LiMn2O4 with Different Particle Sizes in Aqueous Electrolyte. *Electrochimica Acta*, **2015**, 173, 178-183	6.7	39
108	Sandwich-like Cr2O3–graphite intercalation composites as high-stability anode materials for lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 1703-1708	13	35
107	Carbon Coated Li4Ti5O12 Nanowire with High Electrochemical Performance under Elevated Temperature. *Electrochimica Acta*, **2015**, 156, 38-44	6.7	39
106	Application of sulfur-doped carbon coating on the surface of Li3V2(PO4)3 composites to facilitate Li-ion storage as cathode materials. *Journal of Materials Chemistry A*, **2015**, 3, 6064-6072	13	45
105	Re-building Daniell cell with a Li-ion exchange film. *Scientific Reports*, **2014**, 4, 6916	4.9	18
104	Facile hydrothermal synthesis of hierarchical ultrathin mesoporous NiMoO4 nanosheets for high performance supercapacitors. *Electrochimica Acta*, **2014**, 115, 358-363	6.7	93
103	Metal-organic frameworks as cathode materials for Li-O2 batteries. *Advanced Materials*, **2014**, 26, 3258-62	24	240
102	Nitrogen-doped ordered mesoporous carbon with a high surface area, synthesized through organic-inorganic coassembly, and its application in supercapacitors. *ChemPhysChem*, **2014**, 15, 2084-93	3.2	49
101	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
100	Polyimide as anode electrode material for rechargeable sodium batteries. *RSC Advances*, **2014**, 4, 25369-25373	3.7	81

99	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
98	A Nitrogen-doped Hierarchical Mesoporous/Microporous Carbon for Supercapacitors. *Electrochimica Acta*, **2014**, 146, 485-494	6.7	28
97	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
96	Graphene oxide assisted solvothermal synthesis of LiMnPO 4 naonplates cathode materials for lithium ion batteries. *Electrochimica Acta*, **2014**, 146, 8-14	6.7	36
95	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
94	Humidity effect on electrochemical performance of Li□2 batteries. *Journal of Power Sources*, **2014**, 264, 1-7	8.9	101
93	Elastic and wearable wire-shaped lithium-ion battery with high electrochemical performance. *Angewandte Chemie - International Edition*, **2014**, 53, 7864-9	16.4	259
92	Twisted aligned carbon nanotube/silicon composite fiber anode for flexible wire-shaped lithium-ion battery. *Advanced Materials*, **2014**, 26, 1217-22	24	256
91	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
90	Interconnected sandwich structure carbon/Si-SiO2/carbon nanospheres composite as high performance anode material for lithium-ion batteries. *Journal of Energy Chemistry*, **2014**, 23, 315-323	12	22
89	Note: Loading method of molecular fluorine using x-ray induced chemistry. *Review of Scientific Instruments*, **2014**, 85, 086110	1.7	10
88	R□ktitelbild: Elastic and Wearable Wire-Shaped Lithium-Ion Battery with High Electrochemical Performance (Angew. Chem. 30/2014). *Angewandte Chemie*, **2014**, 126, 8092-8092	3.6	0
87	Elastic and Wearable Wire-Shaped Lithium-Ion Battery with High Electrochemical Performance. *Angewandte Chemie*, **2014**, 126, 7998-8003	3.6	119
86	Graphite Intercalation Compounds (GICs): A New Type of Promising Anode Material for Lithium-Ion Batteries. *Advanced Energy Materials*, **2014**, 4, 1300600	21.8	63
85	Ordered hierarchical mesoporous/macroporous carbon: a high-performance catalyst for rechargeable Li-O(2) batteries. *Advanced Materials*, **2013**, 25, 5668-72	24	270
84	Leaf-like Graphene Oxide with a Carbon Nanotube Midrib and Its Application in Energy Storage Devices. *Advanced Functional Materials*, **2013**, 23, n/a-n/a	15.6	2
83	Novel electric double-layer capacitor with a coaxial fiber structure. *Advanced Materials*, **2013**, 25, 6436-41	14	314
82	Electrochemical profile of lithium titanate/hard carbon composite as anode material for Li-ion batteries. *Journal of Electroanalytical Chemistry*, **2013**, 688, 86-92	4.1	17

81	Si/graphene composite prepared by magnesium thermal reduction of SiO2 as anode material for lithium-ion batteries. *Electrochemistry Communications*, **2013**, 36, 107-110	5.1	38
80	High-voltage aqueous battery approaching 3 V using an acidic-alkaline double electrolyte. *Chemical Communications*, **2013**, 49, 2204-6	5.8	56
79	Preparation of nitrogen-containing mesoporous carbons and their application in supercapacitors. *New Journal of Chemistry*, **2013**, 37, 1768	3.6	29
78	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
77	TiO2(B) nanofiber bundles as a high performance anode for a Li-ion battery. *RSC Advances*, **2013**, 3, 3352	3.7	36
76	Pseudo-capacitive profile vs. Li-intercalation in Nano-LiFePO4. *Journal of Power Sources*, **2013**, 236, 230-237	6.7	18
75	Electrochemical performance comparison of LiFePO4 supported by various carbon materials. *Electrochimica Acta*, **2013**, 88, 632-638	6.7	72
74	Ordered hierarchical mesoporous/microporous carbon with optimized pore structure for supercapacitors. *Journal of Materials Chemistry A*, **2013**, 1, 1192-1200	13	58
73	Batteries: Twisting Carbon Nanotube Fibers for Both Wire-Shaped Micro-Supercapacitor and Micro-Battery (Adv. Mater. 8/2013). *Advanced Materials*, **2013**, 25, 1224-1224	24	10
72	Twisting carbon nanotube fibers for both wire-shaped micro-supercapacitor and micro-battery. *Advanced Materials*, **2013**, 25, 1155-9, 1224	24	635
71	Graphite-anchored lithium vanadium oxide as anode of lithium ion battery. *Electrochimica Acta*, **2013**, 106, 534-540	6.7	14
70	A nitrogen-doped ordered mesoporous carbon nanofiber array for supercapacitors. *Journal of Materials Chemistry A*, **2013**, 1, 8488	13	116
69	Recent progress in supercapacitors: from materials design to system construction. *Advanced Materials*, **2013**, 25, 5336-42	24	485
68	A Thin-Film Direct Hydrogen Peroxide/Borohydride Micro Fuel Cell. *Advanced Energy Materials*, **2013**, 3, 713-717	21.8	16
67	Binary Li4Ti5O12-Li2Ti3O7 Nanocomposite as an Anode Material for Li-Ion Batteries. *Advanced Functional Materials*, **2013**, 23, 640-647	15.6	71
66	Capacitors: Novel Electric Double-Layer Capacitor with a Coaxial Fiber Structure (Adv. Mater. 44/2013). *Advanced Materials*, **2013**, 25, 6468-6468	24	
65	A reduced graphene oxide/Cu6Sn5 nanocomposite with enhanced cycling stability for lithium storage. *Nanotechnology*, **2013**, 24, 424010	3.4	4
64	Pitch modified hard carbons as negative materials for lithium-ion batteries. *Electrochimica Acta*, **2012**, 74, 1-7	6.7	48

63	High performance Li–O2 battery using α-MnOOH nanorods as a catalyst in an ionic-liquid based electrolyte. *Electrochemistry Communications*, **2012**, 25, 26-29	5.1	30
62	Layered H2Ti6O13-Nanowires: A New Promising Pseudocapacitive Material in Non-Aqueous Electrolyte. *Advanced Functional Materials*, **2012**, 22, 5185-5193	15.6	201
61	Ti-based compounds as anode materials for Li-ion batteries. *Energy and Environmental Science*, **2012**, 5, 6652	35.4	691
60	Ordered mesoporous/microporous carbon sphere arrays derived from chlorination of mesoporous TiC/C composite and their application for supercapacitors. *Journal of Materials Chemistry*, **2012**, 22, 1937-1943		44
59	Recent Progress in Aqueous Lithium-Ion Batteries. *Advanced Energy Materials*, **2012**, 2, 830-840	21.8	390
58	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
57	Olivine LiFePO4: development and future. *Energy and Environmental Science*, **2011**, 4, 805-817	35.4	273
56	To draw an air electrode of a Li–air battery by pencil. *Energy and Environmental Science*, **2011**, 4, 1704	35.4	132
55	A Li-liquid cathode battery based on a hybrid electrolyte. *ChemSusChem*, **2011**, 4, 1087-90	8.3	70
54	A lithium–air capacitor–battery based on a hybrid electrolyte. *Energy and Environmental Science*, **2011**, 4, 4994	35.4	82
53	Single-crystal H2V3O8 nanowires: a competitive anode with large capacity for aqueous lithium-ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 1780-1787		90
52	Titanium nitride catalyst cathode in a Li-air fuel cell with an acidic aqueous solution. *Chemical Communications*, **2011**, 47, 10701-3	5.8	66
51	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
50	A large capacity of LiV3O8 cathode material for rechargeable lithium-based batteries. *Electrochimica Acta*, **2011**, 56, 1392-1398	6.7	44
49	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
48	Nano active materials for lithium-ion batteries. *Nanoscale*, **2010**, 2, 1294-305	7.7	443
47	A novel direct borohydride fuel cell using an acid–alkaline hybrid electrolyte. *Energy and Environmental Science*, **2010**, 3, 1515	35.4	23
46	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

45	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
44	A novel rechargeable Li-AgO battery with hybrid electrolytes. *Chemical Communications*, **2010**, 46, 2055-7	5.8	21
43	Carbon nanocages with nanographene shell for high-rate lithium ion batteries. *Journal of Materials Chemistry*, **2010**, 20, 9748		56
42	Flowerlike vanadium sesquioxide: solvothermal preparation and electrochemical properties. *ChemPhysChem*, **2010**, 11, 3273-80	3.2	34
41	Controllable hydrogen generation from water. *ChemSusChem*, **2010**, 3, 571-4	8.3	21
40	The development of a new type of rechargeable batteries based on hybrid electrolytes. *ChemSusChem*, **2010**, 3, 1009-19	8.3	78
39	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
38	A Li-air fuel cell with recycle aqueous electrolyte for improved stability. *Electrochemistry Communications*, **2010**, 12, 1686-1689	5.1	100
37	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
36	A new type rechargeable lithium battery based on a Cu-cathode. *Electrochemistry Communications*, **2009**, 11, 1834-1837	5.1	29
35	Mesoporous Carbon Nanofibers for Supercapacitor Application. *Journal of Physical Chemistry C*, **2009**, 113, 1093-1097	3.8	174
34	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
33	Rechargeable Ni-Li battery integrated aqueous/nonaqueous system. *Journal of the American Chemical Society*, **2009**, 131, 15098-9	16.4	95
32	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
31	Facile synthesis of NaV6O15 nanorods and its electrochemical behavior as cathode material in rechargeable lithium batteries. *Journal of Materials Chemistry*, **2009**, 19, 7885		123
30	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
29	A competitive candidate material for aqueous supercapacitors: High surface-area graphite. *Journal of Power Sources*, **2008**, 185, 1557-1562	8.9	87
28	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

27	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
26	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
25	Hemoglobin immobilized on whisker-like carbon composites and its direct electrochemistry. *Electrochimica Acta*, **2008**, 53, 4748-4753	6.7	19
24	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
23	High Electrocatalytic Performance of Mn3O4/Mesoporous Carbon Composite for Oxygen Reduction in Alkaline Solutions. *Chemistry of Materials*, **2007**, 19, 2095-2101	9.6	126
22	Interfacial synthesis of porous MnO2 and its application in electrochemical capacitor. *Electrochimica Acta*, **2007**, 53, 752-757	6.7	145
21	Hybrid Aqueous Energy Storage Cells Using Activated Carbon and Lithium-Ion Intercalated Compounds. *Journal of the Electrochemical Society*, **2007**, 154, A228	3.9	54
20	Ordered Whiskerlike Polyaniline Grown on the Surface of Mesoporous Carbon and Its Electrochemical Capacitance Performance. *Advanced Materials*, **2006**, 18, 2619-2623	24	959
19	Hybrid Aqueous Energy Storage Cells Using Activated Carbon and Lithium-Intercalated Compounds. *Journal of the Electrochemical Society*, **2006**, 153, A450	3.9	183
18	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
17	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
16	Electrochemical capacitance characterization of NiO with ordered mesoporous structure synthesized by template SBA-15. *Electrochimica Acta*, **2006**, 51, 3223-3227	6.7	259
15	A direct borohydride fuel cell using MnO2-catalyzed cathode and hydrogen storage alloy anode. *Electrochemistry Communications*, **2006**, 8, 1775-1778	5.1	57
14	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
13	Enhanced Electrochemical Capacitance of NiO Loaded on TiO[sub 2] Nanotubes. *Journal of the Electrochemical Society*, **2005**, 152, A671	3.9	54
12	A new concept hybrid electrochemical surpercapacitor: Carbon/LiMn2O4 aqueous system. *Electrochemistry Communications*, **2005**, 7, 1138-1142	5.1	276
11	Electrochemical reduction of CO2 on RuO2/TiO2 nanotubes composite modified Pt electrode. *Electrochimica Acta*, **2005**, 50, 3576-3580	6.7	167
10	An asymmetric supercapacitor using RuO2/TiO2 nanotube composite and activated carbon electrodes. *Electrochimica Acta*, **2005**, 50, 5641-5646	6.7	245

9	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
8	Preparation and electrochemical capacitance of RuO2/TiO2 nanotubes composites. *Electrochimica Acta*, **2004**, 49, 1957-1962	6.7	156
7	All solid-state supercapacitor with phosphotungstic acid as the proton-conducting electrolyte. *Solid State Ionics*, **2004**, 166, 61-67	3.3	36
6	A new air electrode based on carbon nanotubes and Ag□MnO2 for metal air electrochemical cells. *Carbon*, **2004**, 42, 3097-3102	10.4	53
5	Fluorinated Carbon Materials and the Applications in Energy Storage Systems. *ACS Applied Energy Materials*,	6.1	0
4	In situ preparation of gel polymer electrolyte for lithium batteries: Progress and perspectives. *Informa□□Materi□y*,	23.1	11
3	Prussian Blue Cathode with Intercalation Pseudocapacitive Behavior for Low-Temperature Batteries. *Advanced Energy and Sustainability Research*,2100105	1.6	2
2	A Highly Stable Li-Organic All-Solid-State Battery Based on Sulfide Electrolytes. *Advanced Energy Materials*,2103932	21.8	3
1	Cleistogamous spike and chasmogamous spike carbon remobilization improve the seed potential yield of Cleistogenes songorica under water stress. *Seed Science Research*,1-12	1.3	