# Yong-Gang Wang

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|---|---|---|---|
| 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 ℃.. *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 |

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| 369 | Decoupled amphoteric water electrolysis and its integration with Mn-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-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 |

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|---|---|---|---|
| 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 |

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| 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 |

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| 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 |

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| 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⁻O2 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 |

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| 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+‐doped Li1.2Ni0.2Mn0.6O2 active materials with enhanced electrochemical properties as cathode materials for Li‐ion 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 |

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|---|---|---|---|
| 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-CO2 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 | 11.6 | 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 70°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-x(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 |

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| 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 |
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