

Chaopeng Fu

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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.

82
papers

2,745
citations

32
h-index

50
g-index

85
ext. papers

3,317
ext. citations

8.4
avg, IF

5.41
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 82 | In Situ Self-Template Synthesis of Fe-N-Doped Double-Shelled Hollow Carbon Microspheres for Oxygen Reduction Reaction. <i>ACS Nano</i> , 2018 , 12, 208-216 | 16.7 | 180 |
| 81 | Ultra-thin Fe ₃ C nanosheets promote the adsorption and conversion of polysulfides in lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2019 , 18, 338-348 | 19.4 | 95 |
| 80 | Supercapacitor based on electropolymerized polythiophene and multi-walled carbon nanotubes composites. <i>Materials Chemistry and Physics</i> , 2012 , 132, 596-600 | 4.4 | 92 |
| 79 | Facile preparation of high-quality graphene scrolls from graphite oxide by a microexplosion method. <i>Advanced Materials</i> , 2011 , 23, 4929-32 | 24 | 87 |
| 78 | Co ₉ S ₈ nanoparticles embedded in a N, S co-doped graphene-unzipped carbon nanotube composite as a high performance electrocatalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1014-1021 | 13 | 86 |
| 77 | Facile preparation of nitrogen/sulfur co-doped and hierarchical porous graphene hydrogel for high-performance electrochemical capacitor. <i>Journal of Power Sources</i> , 2017 , 345, 146-155 | 8.9 | 84 |
| 76 | Supercapacitors based on high-quality graphene scrolls. <i>Nanoscale</i> , 2012 , 4, 3997-4001 | 7.7 | 81 |
| 75 | Fe ₃ O ₄ /carbon nanofibres with necklace architecture for enhanced electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14245-14253 | 13 | 77 |
| 74 | Preparation of Pd/MnO ₂ -reduced graphene oxide nanocomposite for methanol electro-oxidation in alkaline media. <i>Electrochemistry Communications</i> , 2013 , 26, 63-66 | 5.1 | 75 |
| 73 | Electrochemical co-reduction synthesis of graphene/Au nanocomposites in ionic liquid and their electrochemical activity. <i>Chemical Physics Letters</i> , 2010 , 499, 250-253 | 2.5 | 74 |
| 72 | Hydrothermal preparation of nitrogen, boron co-doped curved graphene nanoribbons with high dopant amounts for high-performance lithium sulfur battery cathodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7403-7415 | 13 | 70 |
| 71 | Three-Dimensional Porous Nitrogen doped Graphene Hydrogel for High Energy Density supercapacitors. <i>Electrochimica Acta</i> , 2016 , 213, 291-297 | 6.7 | 70 |
| 70 | Supercapacitor based on graphene and ionic liquid electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 2581-2585 | 2.6 | 63 |
| 69 | The 2021 battery technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 183001 | 3 | 63 |
| 68 | A novel method to prepare a nanotubes@mesoporous carbon composite material based on waste biomass and its electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3875-3887 | 13 | 61 |
| 67 | A novel dual-graphite aluminum-ion battery. <i>Energy Storage Materials</i> , 2018 , 12, 119-127 | 19.4 | 61 |
| 66 | Production of hollow and porous Fe ₂ O ₃ from industrial mill scale and its potential for large-scale electrochemical energy storage applications. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2597-2604 | 13 | 61 |

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|----|--|------|----|
| 65 | Defect-engineered MnO ₂ enhancing oxygen reduction reaction for high performance Al-air batteries. <i>Energy Storage Materials</i> , 2019 , 18, 34-42 | 19.4 | 59 |
| 64 | Preparation of well-dispersed PdAu bimetallic nanoparticles on reduced graphene oxide sheets with excellent electrochemical activity for ethanol oxidation in alkaline media. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1781-1785 | | 58 |
| 63 | A novel design of engineered multi-walled carbon nanotubes material and its improved performance in simultaneous detection of Cd(II) and Pb(II) by square wave anodic stripping voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2016 , 236, 144-152 | 8.5 | 57 |
| 62 | Hierarchical porous carbon spheres/graphene composite for supercapacitor with both aqueous solution and ionic liquid. <i>Electrochimica Acta</i> , 2017 , 235, 340-347 | 6.7 | 49 |
| 61 | One-step facile electrochemical preparation of WO ₃ /graphene nanocomposites with improved electrochromic properties. <i>Electrochimica Acta</i> , 2014 , 117, 139-144 | 6.7 | 49 |
| 60 | Three-dimensional Porous C ₃ N ₄ Nanosheets@Reduced Graphene Oxide Network as Sulfur Hosts for High Performance Lithium-Sulfur Batteries. <i>Electrochimica Acta</i> , 2017 , 256, 1-9 | 6.7 | 46 |
| 59 | Three-Dimensional Pompon-like MnO ₂ /Graphene Hydrogel Composite for Supercapacitor. <i>Electrochimica Acta</i> , 2016 , 210, 804-811 | 6.7 | 46 |
| 58 | Ultra-fast transfer and high storage of Li ⁺ /Na ⁺ in MnO quantum dots@carbon hetero-nanotubes: Appropriate quantum dots to improve the rate. <i>Energy Storage Materials</i> , 2019 , 17, 157-166 | 19.4 | 45 |
| 57 | In situ growth of single-stranded like poly (o-phenylenediamine) onto graphene for high performance supercapacitors. <i>Electrochimica Acta</i> , 2017 , 245, 41-50 | 6.7 | 41 |
| 56 | Insights on the fundamental capacitive behavior: a case study of MnO ₂ . <i>Small</i> , 2014 , 10, 3568-78 | 11 | 41 |
| 55 | Electrochemical performance of pure Al, Al ₅ N, Al ₃ Mg and Al ₂ Mg ₃ N anodes for Al-air batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 808, 151708 | 5.7 | 39 |
| 54 | Comparison of electrodeposition of silver in ionic liquid microemulsions. <i>Electrochemistry Communications</i> , 2008 , 10, 806-809 | 5.1 | 36 |
| 53 | A Rechargeable Al/Fe Battery. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4924-4930 | 6.1 | 34 |
| 52 | Different types of nitrogen species in nitrogen-doped carbon material: The formation mechanism and catalytic role on oxygen reduction reaction. <i>Electrochimica Acta</i> , 2017 , 245, 957-966 | 6.7 | 34 |
| 51 | Integrated and Binder-Free Air Cathodes of CoFe Nanoalloy and CoN Encapsulated in Nitrogen-Doped Carbon Foam with Superior Oxygen Reduction Activity in Flexible Aluminum-Air Batteries. <i>Advanced Science</i> , 2020 , 7, 2000747 | 13.6 | 34 |
| 50 | Three-Dimensional Hierarchical Porous Nitrogen and Sulfur-Codoped Graphene Nanosheets for Oxygen Reduction in Both Alkaline and Acidic Media. <i>ChemCatChem</i> , 2017 , 9, 987-996 | 5.2 | 32 |
| 49 | Space-confined synthesis of CoNi nanoalloy in N-doped porous carbon frameworks as efficient oxygen reduction catalyst for neutral and alkaline aluminum-air batteries. <i>Energy Storage Materials</i> , 2020 , 27, 96-108 | 19.4 | 32 |
| 48 | One step in-situ synthesis of Co@N, S co-doped CNTs composite with excellent HER and ORR bi-functional electrocatalytic performances. <i>Electrochimica Acta</i> , 2017 , 247, 736-744 | 6.7 | 32 |

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| 47 | Facile self-assembly synthesis of PdPt bimetallic nanotubes with good performance for ethanol oxidation in an alkaline medium. <i>Chemistry - A European Journal</i> , 2013 , 19, 13720-5 | 4.8 | 32 |
| 46 | Chemical modification of pristine carbon nanotubes and their exploitation as the carbon hosts for lithium-sulfur batteries. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21850-21860 | 6.7 | 31 |
| 45 | Room temperature solid state dual-ion batteries based on gel electrolytes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4313-4323 | 13 | 29 |
| 44 | Electrochemical and anti-corrosion properties of octadecanethiol and benzotriazole binary self-assembled monolayers on copper. <i>Electrochimica Acta</i> , 2016 , 220, 245-251 | 6.7 | 27 |
| 43 | Synthesis of curly graphene nanoribbon/polyaniline/MnO ₂ composite and its application in supercapacitor. <i>RSC Advances</i> , 2016 , 6, 41142-41150 | 3.7 | 27 |
| 42 | Electrodeposition of gold nanoparticles from ionic liquid microemulsion. <i>Colloid and Polymer Science</i> , 2010 , 288, 1097-1103 | 2.4 | 26 |
| 41 | Electrosynthesis of polyaniline films on titanium by pulse potentiostatic method. <i>Synthetic Metals</i> , 2007 , 157, 98-103 | 3.6 | 25 |
| 40 | Preparation of self-ordered nanoporous anodic aluminum oxide membranes by combination of hard anodization and mild anodization. <i>Thin Solid Films</i> , 2014 , 552, 75-81 | 2.2 | 23 |
| 39 | Hydrothermal synthesis of boron-doped unzipped carbon nanotubes/sulfur composite for high-performance lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2017 , 232, 156-163 | 6.7 | 22 |
| 38 | Study on AgPd bimetallic nanoparticles for electrocatalytic reduction of benzyl chloride. <i>Electrochemistry Communications</i> , 2011 , 13, 1413-1416 | 5.1 | 22 |
| 37 | Volatilisation of ferrocene from ionic liquids: kinetics and mechanism. <i>Chemical Communications</i> , 2011 , 47, 7083-5 | 5.8 | 21 |
| 36 | Toward Low-Cost Grid Scale Energy Storage: Supercapacitors Based on Up-Cycled Industrial Mill Scale Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2831-2838 | 8.3 | 19 |
| 35 | Polar Ultrathin Self-Doping Carbon Nitride Nanosheets with Intrinsic Polysulfide Adsorption for High Performance Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2018 , 1, 192-201 | 5.6 | 19 |
| 34 | Interface engineering of Co ₃ Fe ₇ -Fe ₃ C heterostructure as an efficient oxygen reduction reaction electrocatalyst for aluminum-air batteries. <i>Chemical Engineering Journal</i> , 2021 , 404, 127124 | 14.7 | 19 |
| 33 | Preparation, Characterization, and Lithium Intercalation Behavior of LiVO ₃ Cathode Material for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3242-3249 | 3.8 | 17 |
| 32 | Fabrication of AAO films with controllable nanopore size by changing electrolytes and electrolytic parameters. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 1931-1938 | 2.6 | 17 |
| 31 | The kinetics of ferrocene volatilisation from an ionic liquid. <i>ChemPhysChem</i> , 2011 , 12, 1708-13 | 3.2 | 16 |
| 30 | Challenges and Strategies of Low-Cost Aluminum Anodes for High-Performance Al-Based Batteries. <i>Advanced Materials</i> , 2021 , e2102026 | 24 | 15 |

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|----|--|------|----|
| 29 | Engineering defect-enabled 3D porous MoS ₂ /C architectures for high performance lithium-ion batteries. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4453-4462 | 3.8 | 14 |
| 28 | Rationalization on high-loading iron and cobalt dual metal single atoms and mechanistic insight into the oxygen reduction reaction. <i>Nano Energy</i> , 2022 , 93, 106793 | 17.1 | 14 |
| 27 | K-doped Li ₃ V ₂ (PO ₄) ₃ : A novel cathode material for high performance lithium-ion batteries. <i>Materials Letters</i> , 2017 , 198, 73-75 | 3.3 | 13 |
| 26 | Research on electrochemical properties of nonaqueous ionic liquid microemulsions. <i>Colloid and Polymer Science</i> , 2008 , 286, 1499-1504 | 2.4 | 13 |
| 25 | Novel cathode materials Li _x Na _{2-x} V ₂ O ₆ (x=1.2, 1.4, 1, 0) for high-performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2017 , 344, 25-31 | 8.9 | 11 |
| 24 | Evaluation of Impurities in Aluminum Anodes for Al-Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 2300-2308 | 8.3 | 10 |
| 23 | Dimensional engineering of carbon dots derived sulfur and nitrogen co-doped carbon as efficient oxygen reduction reaction electrocatalysts for aluminum-air batteries. <i>Chemical Engineering Journal</i> , 2021 , 425, 130603 | 14.7 | 10 |
| 22 | Constructing light-weight polar boron-doped carbon nitride nanosheets with increased active sites and conductivity for high performance lithium-sulfur batteries. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 14940-14952 | 6.7 | 9 |
| 21 | Porous nitrogen-doped graphene for high energy density supercapacitors in an ionic liquid electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 759-766 | 2.6 | 9 |
| 20 | Partial self-sacrificing templates synthesis of sandwich-like mesoporous C N@Fe ₃ O ₄ @C N hollow spheres for high-performance Li-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 1816-1826 | 6.7 | 9 |
| 19 | Improved catalytic performance of Pd nanowires for ethanol oxidation by monolayer of Pt. <i>Chemical Physics Letters</i> , 2013 , 585, 128-132 | 2.5 | 8 |
| 18 | Hierarchical Porous Manganese- and Nitrogen-Codoped Carbon Nanosheets Derived from Surface Modified Biomass as Efficient Oxygen Reduction Catalysts for Al-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 110552 | 3.9 | 8 |
| 17 | Structure and Interface Modification of Carbon Dots for Electrochemical Energy Application. <i>Small</i> , 2021 , 17, e2102091 | 11 | 8 |
| 16 | Preparation and characterization of porous sponge-like Pd@Pt nanotubes with high catalytic activity for ethanol oxidation. <i>Materials Letters</i> , 2016 , 173, 43-46 | 3.3 | 7 |
| 15 | Highly Conductive and Reusable Electrolyte Based on Sodium Polyacrylate Composite for Flexible Al-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 080502 | 3.9 | 7 |
| 14 | A high-performance dual-ion cell utilizing Si nanosphere@graphene anode. <i>Electrochimica Acta</i> , 2018 , 282, 946-954 | 6.7 | 6 |
| 13 | Volatilisation of substituted ferrocene compounds of different sizes from room temperature ionic liquids: a kinetic and mechanistic study. <i>New Journal of Chemistry</i> , 2012 , 36, 774 | 3.6 | 6 |
| 12 | Innovative methods to couple earth-abundant biomass waste with air batteries. <i>Current Opinion in Electrochemistry</i> , 2019 , 15, 133-139 | 7.2 | 5 |

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| 11 | High performance aluminum foam-graphite dual-ion batteries and failure analysis. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155640 | 5.7 | 5 |
| 10 | Ni-based aligned plate intermetallic nanostructures as effective catalysts for hydrogen evolution reaction. <i>Materials Letters</i> , 2020 , 272, 127831 | 3.3 | 5 |
| 9 | Electrochemical Performance of Aluminum Anodes with Different Grain Sizes for Al-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 040514 | 3.9 | 5 |
| 8 | A Low-cost and Air-Stable Rechargeable Aluminum-Ion Battery. <i>Advanced Materials</i> , 2021 , e2106511 | 2.4 | 5 |
| 7 | Plasma-Assisted Synthesis of Defect-Rich O and N Codoped Carbon Nanofibers Loaded with Manganese Oxides as an Efficient Oxygen Reduction Electrocatalyst for Aluminum-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37123-37132 | 9.5 | 3 |
| 6 | Electrochemistry of Zirconium Tetrachloride in the Ionic Liquid N-Butyl-N-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide: Formation of Zr(III) and Exploitation of ZrCl ₄ as a Facile Ionic Liquid Drying Agent. <i>Electroanalysis</i> , 2012 , 24, 210-213 | 3 | 2 |
| 5 | Heterostructural Interface in FeC-TiN Quantum Dots Boosts Oxygen Reduction Reaction for Al-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47440-47448 | 9.5 | 1 |
| 4 | Spray-formed commercial aluminum alloy anodes with suppressed self-corrosion for Al-Air batteries. <i>Journal of Power Sources</i> , 2022 , 524, 231082 | 8.9 | 0 |
| 3 | The correlation between chemical effect and segregation behavior in metallic Al liquid. <i>Computational Materials Science</i> , 2020 , 175, 109611 | 3.2 | |
| 2 | Effects of a pre-existed anodic alumina on successive anodization behavior of aluminum and structure of its oxide film. <i>Materials Chemistry and Physics</i> , 2013 , 139, 339-344 | 4.4 | |
| 1 | Al -Air Batteries 2022 , 299-316 | | |