# Xiaowei Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6004902/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 36 papers | 3,185 citations | 172457 29 h-index | 345221 36 g-index |
| 36 all docs | 36 docs citations | 36 times ranked | 4519 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | An Aqueous Rechargeable Zn//Co<sub>3</sub>O<sub>4</sub> Battery with High Energy Density and Good Cycling Behavior. Advanced Materials, 2016, 28, 4904-4911. | 21.0 | 417 |
| 2 | A Quasiâ€Solidâ€State Sodiumâ€Ion Capacitor with High Energy Density. Advanced Materials, 2015, 27, 6962-6968. | 21.0 | 177 |
| 3 | A dense cellulose-based membrane as a renewable host for gel polymer electrolyte of lithium ion batteries. Journal of Membrane Science, 2015, 476, 112-118. | 8.2 | 164 |
| 4 | Lithium Silicide Surface Enrichment: A Solution to Lithium Metal Battery. Advanced Materials, 2018, 30, e1801745. | 21.0 | 163 |
| 5 | Co<sub>3</sub>O<sub>4</sub>@MWCNT Nanocable as Cathode with Superior Electrochemical Performance for Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 2280-2285. | 8.0 | 162 |
| 6 | Single-Atom Coated Separator for Robust Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 25147-25154. | 8.0 | 152 |
| 7 | A Znâ€“NiO rechargeable battery with long lifespan and high energy density. Journal of Materials Chemistry A, 2015, 3, 8280-8283. | 10.3 | 141 |
| 8 | Covalentâ€Organicâ€Frameworkâ€Based Liâ€“CO<sub>2</sub> Batteries. Advanced Materials, 2019, 31, e1905879. | 21.0 | 129 |
| 9 | Recent advances in black-phosphorus-based materials for electrochemical energy storage. Materials Today, 2021, 42, 117-136. | 14.2 | 125 |
| 10 | A conductive polymer coated MoO<sub>3</sub>anode enables an Al-ion capacitor with high performance. Journal of Materials Chemistry A, 2016, 4, 5115-5123. | 10.3 | 120 |
| 11 | Solution-Processable Covalent Organic Framework Electrolytes for All-Solid-State Liâ€“Organic Batteries. ACS Energy Letters, 2020, 5, 3498-3506. | 17.4 | 114 |
| 12 | Green energy storage chemistries based on neutral aqueous electrolytes. Journal of Materials Chemistry A, 2014, 2, 10739-10755. | 10.3 | 113 |
| 13 | Aqueous Rechargeable Zinc/Aluminum Ion Battery with Good Cycling Performance. ACS Applied Materials & Interfaces, 2016, 8, 9022-9029. | 8.0 | 111 |
| 14 | Electrode materials with tailored facets for electrochemical energy storage. Nanoscale Horizons, 2016, 1, 272-289. | 8.0 | 98 |
| 15 | Two-Dimensional Polymer Synthesized via Solid-State Polymerization for High-Performance Supercapacitors. ACS Nano, 2018, 12, 852-860. | 14.6 | 91 |
| 16 | Janus Solidâ€“Liquid Interface Enabling Ultrahigh Charging and Discharging Rate for Advanced Lithium-Ion Batteries. Nano Letters, 2015, 15, 6102-6109. | 9.1 | 90 |
| 17 | From Micropores to Ultra-micropores inside Hard Carbon: Toward Enhanced Capacity in Room-/Low-Temperature Sodium-Ion Storage. Nano-Micro Letters, 2021, 13, 98. | 27.0 | 78 |
| 18 | A Highâ€Performance Lithium Metal Battery with Ionâ€Selective Nanofluidic Transport in a Conjugated Microporous Polymer Protective Layer. Advanced Materials, 2021, 33, e2006323. | 21.0 | 64 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Denseâ€Stacking Porous Conjugated Polymer as Reactiveâ€Type Host for Highâ€Performance Lithium Sulfur Batteries. Angewandte Chemie - International Edition, 2021, 60, 11359-11369. | 13.8 | 62 |
| 20 | Site-selective alkene borylation enabled by synergistic hydrometallation and borometallation. Nature Catalysis, 2020, 3, 585-592. | 34.4 | 60 |
| 21 | A Se/C composite as cathode material for rechargeable lithium batteries with good electrochemical performance. RSC Advances, 2014, 4, 9086-9091. | 3.6 | 59 |
| 22 | Enhanced capacitive desalination of MnO<sub>2</sub> by forming composite with multi-walled carbon nanotubes. RSC Advances, 2016, 6, 6730-6736. | 3.6 | 59 |
| 23 | Aqueous Rechargeable Battery Based on Zinc and a Composite of LiNi<sub>1/3</sub>Co<sub>1/3</sub>Mn<sub>1/3</sub>O<sub>2</sub>. ChemElectroChem, 2015, 2, 1024-1030. | 3.4 | 58 |
| 24 | Orientated Co<sub>3</sub>O<sub>4</sub>Nanocrystals on MWCNTs as Superior Battery-Type Positive Electrode Material for a Hybrid Capacitor. Journal of the Electrochemical Society, 2015, 162, A1966-A1971. | 2.9 | 52 |
| 25 | Hybrid system for rechargeable magnesium battery with high energy density. Scientific Reports, 2015, 5, 11931. | 3.3 | 48 |
| 26 | Stabilizing a Lithium Metal Battery by an In Situ Li<sub>2</sub>S-modified Interfacial Layer via Amorphous-Sulfide Composite Solid Electrolyte. Nano Letters, 2020, 20, 8273-8281. | 9.1 | 47 |
| 27 | Composites of porous Co<sub>3</sub>O<sub>4</sub>grown on Li<sub>2</sub>MnO<sub>3</sub>microspheres as cathode materials for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 4840-4845. | 10.3 | 45 |
| 28 | A gel polymer electrolyte based on composite of nonwoven fabric and methyl cellulose with good performance for lithium ion batteries. RSC Advances, 2015, 5, 52382-52387. | 3.6 | 44 |
| 29 | Enhancing performance of sandwich-like cobalt sulfide and carbon for quasi-solid-state hybrid electrochemical capacitors. Journal of Materials Chemistry A, 2017, 5, 8981-8988. | 10.3 | 32 |
| 30 | Boron Nitrideâ€Based Release Agent Coating Stabilizes Li<sub>1.3</sub>Al<sub>0.3</sub>Ti<sub>1.7</sub>(PO<sub>4</sub>)<sub>3</sub>/Li Interface with Superior Leanâ€Lithium Electrochemical Performance and Thermal Stability. Advanced Functional Materials, 2022, 32, . | 14.9 | 27 |
| 31 | An acid-free rechargeable battery based on PbSO<sub>4</sub>and spinel LiMn<sub>2</sub>O<sub>4</sub>. Chemical Communications, 2014, 50, 13714-13717. | 4.1 | 21 |
| 32 | Para-Substituted Triphenylamine as a Catholyte for Zincâ€“Organic Aqueous Redox Flow Batteries. ACS Applied Energy Materials, 2021, 4, 3612-3621. | 5.1 | 18 |
| 33 | A hybrid of CoOOH nanorods with carbon nanotubes as a superior positive electrode material for supercapacitors. RSC Advances, 2014, 4, 59088-59093. | 3.6 | 17 |
| 34 | Unveiling the role of Co-O-Mg bond in magnetic anisotropy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Pt</mml:mi><mml:mo>/</mml:mo><mml:mi>Co</mml:m using atomically controlled deposition and in situ electrical measurement. Physical Review B, 2017, 95, . | 3.2 | 11 |
| 35 | Denseâ€Stacking Porous Conjugated Polymer as Reactiveâ€Type Host for Highâ€Performance Lithium Sulfur Batteries. Angewandte Chemie, 2021, 133, 11460-11470. | 2.0 | 11 |
| 36 | Na<sub>0.35</sub>MnO<sub>2</sub>/CNT Nanocomposite from a Hydrothermal Method as Electrode Material for Aqueous Supercapacitors. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 2908-2913. | 1.2 | 5 |