

Weidong Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2182226/publications.pdf>

Version: 2024-02-01

27
papers

2,130
citations

361045

20
h-index

552369

26
g-index

27
all docs

27
docs citations

27
times ranked

2316
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A cation-anion regulation synergistic anode host for dendrite-free lithium metal batteries. <i>Science Advances</i> , 2018, 4, eaar4410. | 4.7 | 241 |
| 2 | Synergistic Dual-Additive Electrolyte Enables Practical Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14935-14941. | 7.2 | 210 |
| 3 | Stable Lithium Electrodeposition at Ultra-High Current Densities Enabled by 3D PMF/Li Composite Anode. <i>Advanced Energy Materials</i> , 2018, 8, 1703360. | 10.2 | 194 |
| 4 | Colossal Granular Lithium Deposits Enabled by the Grain-Coarsening Effect for High-Efficiency Lithium Metal Full Batteries. <i>Advanced Materials</i> , 2020, 32, e2001740. | 11.1 | 157 |
| 5 | Design Principles of Functional Polymer Separators for High-Energy, Metal-Based Batteries. <i>Small</i> , 2018, 14, e1703001. | 5.2 | 155 |
| 6 | Enabling Stable Lithium Metal Anode via 3D Inorganic Skeleton with Superlithiophilic Interphase. <i>Advanced Energy Materials</i> , 2018, 8, 1802350. | 10.2 | 147 |
| 7 | Hierarchical Co ₃ O ₄ Nanofiber-Carbon Sheet Skeleton with Superior Na/Li-Philic Property Enabling Highly Stable Alkali Metal Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1808847. | 7.8 | 147 |
| 8 | Tuning the LUMO Energy of an Organic Interphase to Stabilize Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2019, 4, 644-650. | 8.8 | 129 |
| 9 | Dual-salt-additive electrolyte enables high-voltage lithium metal full batteries capable of fast-charging ability. <i>Nano Energy</i> , 2021, 89, 106353. | 8.2 | 90 |
| 10 | Design Principles of the Anode-Electrolyte Interface for All Solid-State Lithium Metal Batteries. <i>Small Methods</i> , 2020, 4, 1900592. | 4.6 | 88 |
| 11 | Dynamic interphase-mediated assembly for deep cycling metal batteries. <i>Science Advances</i> , 2021, 7, eabl3752. | 4.7 | 81 |
| 12 | Engineering Wavy-Nanostructured Anode Interphases with Fast Ion Transfer Kinetics: Toward Practical Li-Metal Full Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2003800. | 7.8 | 63 |
| 13 | Tailored Electrolytes Enabling Practical Lithium-Sulfur Full Batteries via Interfacial Protection. <i>ACS Energy Letters</i> , 2021, 6, 2673-2681. | 8.8 | 52 |
| 14 | Outside-In Nanostructure Fabricated on LiCoO ₂ Surface for High-Voltage Lithium-Ion Batteries. <i>Advanced Science</i> , 2022, 9, e2104841. | 5.6 | 51 |
| 15 | Tuning the Interfacial Electronic Conductivity by Artificial Electron Tunneling Barriers for Practical Lithium Metal Batteries. <i>Nano Letters</i> , 2020, 20, 6606-6613. | 4.5 | 43 |
| 16 | Stable Li-Metal Deposition via a 3D Nanodiamond Matrix with Ultrahigh Young's Modulus. <i>Small Methods</i> , 2019, 3, 1900325. | 4.6 | 40 |
| 17 | High-Efficacy and Polymeric Solid-Electrolyte Interphase for Closely Packed Li Electrodeposition. <i>Advanced Science</i> , 2021, 8, 2003240. | 5.6 | 39 |
| 18 | Fabrication of metal-organic framework-based nanofibrous separator via one-pot electrospinning strategy. <i>Nano Research</i> , 2021, 14, 1465-1470. | 5.8 | 32 |

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|----|--|-----|-----------|
| 19 | Synergistic Dual-Additive Electrolyte Enables Practical Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2020, 132, 15045-15051. | 1.6 | 26 |
| 20 | Ionic liquid-reinforced carbon nanofiber matrix enabled lean-electrolyte Li-S batteries via electrostatic attraction. <i>Energy Storage Materials</i> , 2020, 26, 378-384. | 9.5 | 25 |
| 21 | Inhibiting Dendrite Growth via Regulating the Electrified Interface for Fast-Charging Lithium Metal Anode. <i>ACS Central Science</i> , 2021, 7, 2029-2038. | 5.3 | 24 |
| 22 | Pressure-fluctuation analysis of a Gas-Solid fluidized bed using the wigner distribution. <i>AICHE Journal</i> , 1997, 43, 345-356. | 1.8 | 20 |
| 23 | In-situ polymerization with dual-function electrolyte additive toward future lithium metal batteries. <i>Materials Today Energy</i> , 2022, 26, 100984. | 2.5 | 18 |
| 24 | Modeling pressure fluctuations via correlation structure in a gas-solids fluidized bed. <i>AICHE Journal</i> , 1997, 43, 1914-1920. | 1.8 | 16 |
| 25 | Recent Advances of Composite Solid-State Electrolytes for Lithium-Based Batteries. <i>Energy & Fuels</i> , 2021, 35, 11118-11140. | 2.5 | 16 |
| 26 | Constructing a Phosphating-Nitriding Interface for Practically Used Lithium Metal Anode. , 2020, 2, 1-8. | | 14 |
| 27 | Tuning Ion/Electron Conducting Properties at Electrified Interfaces for Practical All-Solid-State Li-Metal Batteries. <i>Advanced Functional Materials</i> , 2022, 32, . | 7.8 | 12 |