# Jiefu Yin

List of Publications by Year
in descending order



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|---|---|---|---|
| 34 papers | 3,261 citations | 257101 24 h-index | 377514 34 g-index |
| 34 all docs | 34 docs citations | 34 times ranked | 4082 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Reversible epitaxial electrodeposition of metals in battery anodes. Science, 2019, 366, 645-648. | 6.0 | 1,097 |
| 2 | Generation and photocatalytic activities of Bi@Bi2O3 microspheres. Nano Research, 2011, 4, 470-482. | 5.8 | 204 |
| 3 | Cu2O@reduced graphene oxide composite for removal of contaminants from water and supercapacitors. Journal of Materials Chemistry, 2011, 21, 10645. | 6.7 | 200 |
| 4 | Regulating electrodeposition morphology in high-capacity aluminium and zinc battery anodes using interfacial metalâ€“substrate bonding. Nature Energy, 2021, 6, 398-406. | 19.8 | 169 |
| 5 | Spontaneous and field-induced crystallographic reorientation of metal electrodeposits at battery anodes. Science Advances, 2020, 6, eabb1122. | 4.7 | 143 |
| 6 | Improved performances of Î²-Ni(OH)2@reduced-graphene-oxide in Ni-MH and Li-ion batteries. Chemical Communications, 2011, 47, 3159. | 2.2 | 126 |
| 7 | Proton Intercalation/Deâ€‘Intercalation Dynamics in Vanadium Oxides for Aqueous Aluminum Electrochemical Cells. Angewandte Chemie - International Edition, 2020, 59, 3048-3052. | 7.2 | 122 |
| 8 | Self-assembly into magnetic Co<sub>3</sub>O<sub>4</sub>complex nanostructures as peroxidase. Journal of Materials Chemistry, 2012, 22, 527-534. | 6.7 | 116 |
| 9 | SnS2@reduced graphene oxide nanocomposites as anode materials with high capacity for rechargeable lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 23963. | 6.7 | 97 |
| 10 | Mg(OH)<sub>2</sub> Complex Nanostructures with Superhydrophobicity and Flame Retardant Effects. Journal of Physical Chemistry C, 2010, 114, 17362-17368. | 1.5 | 87 |
| 11 | Synthesis and separation of dyesvia Ni@reduced graphene oxide nanostructures. Journal of Materials Chemistry, 2012, 22, 1876-1883. | 6.7 | 83 |
| 12 | Magnesium-ion battery-relevant electrochemistry of MgMn<sub>2</sub>O<sub>4</sub>: crystallite size effects and the notable role of electrolyte water content. Chemical Communications, 2017, 53, 3665-3668. | 2.2 | 79 |
| 13 | Synthesis and Applications of Î³-Tungsten Oxide Hierarchical Nanostructures. Crystal Growth and Design, 2013, 13, 759-769. | 1.4 | 75 |
| 14 | On the crystallography and reversibility of lithium electrodeposits at ultrahigh capacity. Nature Communications, 2021, 12, 6034. | 5.8 | 70 |
| 15 | Textured Electrodes: Manipulating Builtâ€‘In Crystallographic Heterogeneity of Metal Electrodes via Severe Plastic Deformation. Advanced Materials, 2022, 34, e2106867. | 11.1 | 62 |
| 16 | Synthesis and Photocatalytic Activity of Single-Crystalline Hollow rh-In<sub>2</sub>O<sub>3</sub> Nanocrystals. Inorganic Chemistry, 2012, 51, 6529-6536. | 1.9 | 59 |
| 17 | Stabilizing Zinc Electrodeposition in a Battery Anode by Controlling Crystal Growth. Small, 2021, 17, e2101798. | 5.2 | 58 |
| 18 | Ag2Se complex nanostructures with photocatalytic activity and superhydrophobicity. Nano Research, 2010, 3, 863-873. | 5.8 | 55 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | On the Reversibility and Fragility of Sodium Metal Electrodes. Advanced Energy Materials, 2019, 9, 1901651. | 10.2 | 48 |
| 20 | Production of fast-charge Zn-based aqueous batteries via interfacial adsorption of ion-oligomer complexes. Nature Communications, 2022, 13, 2283. | 5.8 | 47 |
| 21 | MgCO<sub>3</sub>Â·3H<sub>2</sub>O and MgO complex nanostructures: controllable biomimetic fabrication and physical chemical properties. Physical Chemistry Chemical Physics, 2011, 13, 5047-5052. | 1.3 | 45 |
| 22 | Biomineralization Strategy to Î±-Mn<sub>2</sub>O<sub>3</sub> Hierarchical Nanostructures. Journal of Physical Chemistry C, 2012, 116, 21109-21115. | 1.5 | 36 |
| 23 | Glucosan controlled biomineralization of SrCO3 complex nanostructures with superhydrophobicity and adsorption properties. Journal of Materials Chemistry, 2011, 21, 8734. | 6.7 | 32 |
| 24 | Communicationâ€"Sol-Gel Synthesized Magnesium Vanadium Oxide, Mg<sub>x</sub>V<sub>2</sub>O<sub>5</sub>Â· nH<sub>2</sub>O: The Role of Structural Mg<sup>2+</sup>on Battery Performance. Journal of the Electrochemical Society, 2016, 163, A1941-A1943. | 1.3 | 28 |
| 25 | The early-stage growth and reversibility of Li electrodeposition in Br-rich electrolytes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 26 |
| 26 | Achieving Uniform Lithium Electrodeposition in Cross-Linked Poly(ethylene oxide) Networks: â€œSoftâ€• Polymers Prevent Metal Dendrite Proliferation. Macromolecules, 2020, 53, 5445-5454. | 2.2 | 22 |
| 27 | Ionic liquid hybrids: Progress toward non-corrosive electrolytes with high-voltage oxidation stability for magnesium-ion based batteries. Electrochimica Acta, 2016, 219, 267-276. | 2.6 | 14 |
| 28 | Understanding the Effect of Preparative Approaches in the Formation of â€œFlower-likeâ€• Li4Ti5O12â€"Multiwalled Carbon Nanotube Composite Motifs with Performance as High-Rate Anode Materials for Li-Ion Battery Applications. Journal of the Electrochemical Society, 2017, 164, A524-A534. | 1.3 | 14 |
| 29 | Proton Intercalation/Deâ€Intercalation Dynamics in Vanadium Oxides for Aqueous Aluminum Electrochemical Cells. Angewandte Chemie, 2020, 132, 3072-3076. | 1.6 | 13 |
| 30 | Synthetic control of manganese birnessite: Impact of crystallite size on Li, Na, and Mg based electrochemistry. Inorganica Chimica Acta, 2016, 453, 230-237. | 1.2 | 11 |
| 31 | Reversible Electrochemical Lithium-Ion Insertion into the Rhenium Cluster Chalcogenideâ€“Halide Re<sub>6</sub>Se<sub>8</sub>Cl<sub>2</sub>. Inorganic Chemistry, 2018, 57, 4812-4815. | 1.9 | 8 |
| 32 | Synthesis and Characterization of 2 Ã— 4 Tunnel Structured Manganese Dioxides as Cathodes in Rechargeable Li, Na, and Mg Batteries. Journal of the Electrochemical Society, 2019, 166, A670-A678. | 1.3 | 8 |
| 33 | Rate Dependent Multi-Mechanism Discharge of Ag<sub>0.50</sub>VOPO<sub>4</sub>Â·1.8H<sub>2</sub>O: Insights from In Situ Energy Dispersive X-ray Diffraction. Journal of the Electrochemical Society, 2017, 164, A6007-A6016. | 1.3 | 4 |
| 34 | Electrochemically Induced Phase Evolution of Lithium Vanadium Oxide: Complementary Insights Gained via Ex-Situ, In-Situ, and Operando Experiments and Density Functional Theory. MRS Advances, 2018, 3, 1255-1260. | 0.5 | 3 |