

# Enyuan Hu

## List of Publications by Year in descending order

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109  
papers

12,587  
citations

31976

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115  
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115  
docs citations

115  
times ranked

10357  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Structural Changes and Thermal Stability of Charged $\text{LiNi}_{1-x}\text{Mn}_y\text{Co}_z\text{O}_2$ Cathode Materials Studied by Combined <i>In Situ</i> Time-Resolved XRD and Mass Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 22594-22601.               | 8.0  | 731       |
| 2  | Solvation Structure Design for Aqueous Zn Metal Batteries. <i>Journal of the American Chemical Society</i> , 2020, 142, 21404-21409.  | 13.7 | 680       |
| 3  | Evolution of redox couples in Li- and Mn-rich cathode materials and mitigation of voltage fade by reducing oxygen release. <i>Nature Energy</i> , 2018, 3, 690-698.   | 39.5 | 675       |
| 4  | Trace doping of multiple elements enables stable battery cycling of $\text{LiCoO}_2$ at 4.6%V. <i>Nature Energy</i> , 2019, 4, 594-603.   | 39.5 | 572       |
| 5  | Fluorinated interphase enables reversible aqueous zinc battery chemistries. <i>Nature Nanotechnology</i> , 2021, 16, 902-910.   | 31.5 | 560       |
| 6  | Reversible planar gliding and microcracking in a single-crystalline Ni-rich cathode. <i>Science</i> , 2020, 370, 1313-1317.   | 12.6 | 472       |
| 7  | Combining <i>In Situ</i> Synchrotron X-Ray Diffraction and Absorption Techniques with Transmission Electron Microscopy to Study the Origin of Thermal Instability in Overcharged Cathode Materials for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 1047-1063. | 14.9 | 458       |
| 8  | Single-Crystalline Ultrathin $\text{Co}_3\text{O}_4$ Nanosheets with Massive Vacancy Defects for Enhanced Electrocatalysis. <i>Advanced Energy Materials</i> , 2018, 8, 1701694.  | 19.5 | 451       |
| 9  | A highly active and stable hydrogen evolution catalyst based on pyrite-structured cobalt phosphosulfide. <i>Nature Communications</i> , 2016, 7, 10771.   | 12.8 | 418       |
| 10 | Correlating Structural Changes and Gas Evolution during the Thermal Decomposition of Charged $\text{Li}_{1-x}\text{Ni}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Cathode Materials. <i>Chemistry of Materials</i> , 2013, 25, 337-351.   | 6.7  | 317       |
| 11 | Structure-Induced Reversible Anionic Redox Activity in Na Layered Oxide Cathode. <i>Joule</i> , 2018, 2, 125-140.   | 24.0 | 311       |
| 12 | Designing Air-Stable O3-Type Cathode Materials by Combined Structure Modulation for Na-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2017, 139, 8440-8443.   | 13.7 | 303       |
| 13 | Anionic Redox Reaction-Induced High-Capacity and Low-Strain Cathode with Suppressed Phase Transition. <i>Joule</i> , 2019, 3, 503-517.  | 24.0 | 262       |
| 14 | A rechargeable aqueous $\text{Zn}^{2+}$ -battery with high power density and a long cycle-life. <i>Energy and Environmental Science</i> , 2018, 11, 3168-3175.  | 30.8 | 258       |
| 15 | High-Voltage Charging-Induced Strain, Heterogeneity, and Micro-Cracks in Secondary Particles of a Nickel-Rich Layered Cathode Material. <i>Advanced Functional Materials</i> , 2019, 29, 1900247.   | 14.9 | 219       |
| 16 | A Redox-Active 2D Metal-Organic Framework for Efficient Lithium Storage with Extraordinary High Capacity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5273-5277.   | 13.8 | 189       |
| 17 | Influence of Cation Ordering and Lattice Distortion on the Charge-Discharge Behavior of $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ Spinel between 5.0 and 2.0 V. <i>Chemistry of Materials</i> , 2012, 24, 3610-3620.   | 6.7  | 180       |
| 18 | Tuning charge-discharge induced unit cell breathing in layer-structured cathode materials for lithium-ion batteries. <i>Nature Communications</i> , 2014, 5, 5381.  | 12.8 | 180       |

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|----|--|------|-----------|
| 19 | Identification of LiH and nanocrystalline LiF in the solidâ€ electrolyte interphase of lithium metal anodes. <i>Nature Nanotechnology</i> , 2021, 16, 549-554.   | 31.5 | 171       |
| 20 | Designing In-Situ-Formed Interphases Enables Highly Reversible Cobalt-Free LiNiO <sub>2</sub> Cathode for Li-ion and Li-metal Batteries. <i>Joule</i> , 2019, 3, 2550-2564.  | 24.0 | 167       |
| 21 | Visualizing non-equilibrium lithiation of spinel oxide via in situ transmission electron microscopy. <i>Nature Communications</i> , 2016, 7, 11441.  | 12.8 | 162       |
| 22 | In situ Visualization of State-of-Charge Heterogeneity within a LiCoO <sub>2</sub> Particle that Evolves upon Cycling at Different Rates. <i>ACS Energy Letters</i> , 2017, 2, 1240-1245.  | 17.4 | 159       |
| 23 | Structure and Interface Design Enable Stable Li-Rich Cathode. <i>Journal of the American Chemical Society</i> , 2020, 142, 8918-8927.  | 13.7 | 151       |
| 24 | Highly Reversible Aqueous Zinc Batteries enabled by Zincophilicâ€ Zincophobic Interfacial Layers and Interrupted Hydrogenâ€Bond Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18845-18851.                            | 13.8 | 150       |
| 25 | Achieving High Energy Density through Increasing the Output Voltage: A Highly Reversible 5.3ÂV Battery. <i>CheM</i> , 2019, 5, 896-912.  | 11.7 | 145       |
| 26 | Understanding the Degradation Mechanism of Lithium Nickel Oxide Cathodes for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 31677-31683.   | 8.0  | 144       |
| 27 | Additive engineering for robust interphases to stabilize high-Ni layered structures at ultra-high voltage of 4.8â€V. <i>Nature Energy</i> , 2022, 7, 484-494.  | 39.5 | 138       |
| 28 | Empowering the Lithium Metal Battery through a Silicon-Based Superionic Conductor. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1812-A1817.   | 2.9  | 137       |
| 29 | High energy-density and reversibility of iron fluoride cathode enabled via an intercalation-extrusion reaction. <i>Nature Communications</i> , 2018, 9, 2324.  | 12.8 | 136       |
| 30 | A Replacement Reaction Enabled Interdigitated Metal/Solid Electrolyte Architecture for Battery Cycling at 20 mA cm <sup>-2</sup> and 20 mAh cm <sup>-2</sup> . <i>Journal of the American Chemical Society</i> , 2021, 143, 3143-3152.             | 13.7 | 132       |
| 31 | Layered double hydroxides with atomic-scale defects for superior electrocatalysis. <i>Nano Research</i> , 2018, 11, 4524-4534.   | 10.4 | 130       |
| 32 | How Water Accelerates Bivalent Ion Diffusion at the Electrolyte/Electrode Interface. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11978-11981.   | 13.8 | 123       |
| 33 | Advanced Characterization Techniques for Sodiumâ€Ion Battery Studies. <i>Advanced Energy Materials</i> , 2018, 8, 1702588.   | 19.5 | 122       |
| 34 | A novel P3-type Na <sub>2/3</sub> Mg <sub>1/3</sub> Mn <sub>2/3</sub> O <sub>2</sub> as high capacity sodium-ion cathode using reversible oxygen redox. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1491-1498.                              | 10.3 | 122       |
| 35 | Atomically Dispersed Nickel(I) on an Alloyâ€Encapsulated Nitrogenâ€Doped Carbon Nanotube Array for Highâ€Performance Electrochemical CO <sub>2</sub> Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12055-12061. | 13.8 | 117       |
| 36 | Activating Layered Double Hydroxide with Multivacancies by Memory Effect for Energy-Efficient Hydrogen Production at Neutral pH. <i>ACS Energy Letters</i> , 2019, 4, 1412-1418.   | 17.4 | 115       |

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|----|--|------|-----------|
| 37 | Understanding the Low-Voltage Hysteresis of Anionic Redox in $\text{Na}_2\text{Mn}_3\text{O}_7$ . <i>Chemistry of Materials</i> , 2019, 31, 3756-3765.   | 6.7  | 112       |
| 38 | High-Rate Charging Induced Intermediate Phases and Structural Changes of Layered Structured Cathode for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600597.  | 19.5 | 110       |
| 39 | A chemically stabilized sulfur cathode for lean electrolyte lithium sulfur batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14712-14720.   | 7.1  | 102       |
| 40 | Local structure adaptability through multi cations for oxygen redox accommodation in Li-Rich layered oxides. <i>Energy Storage Materials</i> , 2020, 24, 384-393.  | 18.0 | 101       |
| 41 | Rejuvenating zinc batteries. <i>Nature Materials</i> , 2018, 17, 480-481.  | 27.5 | 88        |
| 42 | Utilizing $\text{Co}^{2+}/\text{Co}^{3+}$ Redox Couple in $\text{P}_2$ -Layered $\text{Na}_{0.66}\text{Co}_{0.22}\text{Mn}_{0.44}\text{Ti}_{0.34}\text{O}_2$ Cathode for Sodium-Ion Batteries. <i>Advanced Science</i> , 2017, 4, 1700219.                 | 11.2 | 85        |
| 43 | Phase transition behavior of $\text{NaCrO}_2$ during sodium extraction studied by synchrotron-based X-ray diffraction and absorption spectroscopy. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11130.   | 10.3 | 84        |
| 44 | Probing the Complexities of Structural Changes in Layered Oxide Cathode Materials for Li-Ion Batteries during Fast Charge-Discharge Cycling and Heating. <i>Accounts of Chemical Research</i> , 2018, 51, 290-298.   | 15.6 | 78        |
| 45 | Oxygen-Release-Related Thermal Stability and Decomposition Pathways of $\text{Li}_x\text{Ni}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathode Materials. <i>Chemistry of Materials</i> , 2014, 26, 1108-1118.   | 6.7  | 75        |
| 46 | Characterization of the structure and chemistry of the solid-electrolyte interface by cryo-EM leads to high-performance solid-state Li-metal batteries. <i>Nature Nanotechnology</i> , 2022, 17, 768-776.  | 31.5 | 75        |
| 47 | Unexpected high power performance of atomic layer deposition coated $\text{Li}[\text{Ni}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}]\text{O}_2$ cathodes. <i>Journal of Power Sources</i> , 2014, 254, 190-197.   | 7.8  | 73        |
| 48 | Explore the Effects of Microstructural Defects on Voltage Fade of Li- and Mn-Rich Cathodes. <i>Nano Letters</i> , 2016, 16, 5999-6007.   | 9.1  | 64        |
| 49 | Controlling Surface Phase Transition and Chemical Reactivity of $\text{O}_3$ -Layered Metal Oxide Cathodes for High-Performance Na-Ion Batteries. <i>ACS Energy Letters</i> , 2020, 5, 1718-1725.  | 17.4 | 64        |
| 50 | Sol-Gel Synthesis of Aliovalent Vanadium-Doped $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathodes with Excellent Performance at High Temperatures. <i>ChemSusChem</i> , 2014, 7, 829-834.   | 6.8  | 60        |
| 51 | Anomalous metal segregation in lithium-rich material provides design rules for stable cathode in lithium-ion battery. <i>Nature Communications</i> , 2019, 10, 1650.   | 12.8 | 60        |
| 52 | Vacancy-Enabled $\text{O}_3$ Phase Stabilization for Manganese-Rich Layered Sodium Cathodes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8258-8267.   | 13.8 | 59        |
| 53 | Probing Reversible Multielectron Transfer and Structure Evolution of $\text{Li}_{1.2}\text{Cr}_{0.4}\text{Mn}_{0.4}\text{O}_2$ Cathode Material for Li-Ion Batteries in a Voltage Range of 1.0-4.8 V. <i>Chemistry of Materials</i> , 2015, 27, 5238-5252. | 6.7  | 57        |
| 54 | Oxygen-redox reactions in $\text{LiCoO}_2$ cathode without $\text{O}^{\bullet}$ bonding during charge-discharge. <i>Joule</i> , 2021, 5, 720-736.  | 24.0 | 56        |

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|----|--|------|-----------|
| 55 | Suppressing the voltage decay of low-cost P2-type iron-based cathode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20795-20803.   | 10.3 | 54        |
| 56 | Hydrogen production from bio-oil aqueous fraction with in situ carbon dioxide capture. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 2612-2616.  | 7.1  | 52        |
| 57 | A study of building envelope and thermal mass requirements for achieving thermal autonomy in an office building. <i>Energy and Buildings</i> , 2014, 78, 79-88.  | 6.7  | 50        |
| 58 | Prelithiated Li-Enriched Gradient Interphase toward Practical High-Energy NMC-Silicon Full Cell. <i>ACS Energy Letters</i> , 2021, 6, 320-328.   | 17.4 | 50        |
| 59 | Quantifying and Suppressing Proton Intercalation to Enable High-Voltage Zn-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2102016.  | 19.5 | 48        |
| 60 | Surface-to-Bulk Redox Coupling through Thermally Driven Li Redistribution in Li- and Mn-Rich Layered Cathode Materials. <i>Journal of the American Chemical Society</i> , 2019, 141, 12079-12086.  | 13.7 | 47        |
| 61 | Modification of CO <sub>2</sub> Reduction Activity of Nanostructured Silver Electrocatalysts by Surface Halide Anions. <i>ACS Applied Energy Materials</i> , 2019, 2, 102-109.   | 5.1  | 46        |
| 62 | Tuning Sodium Occupancy Sites in P2-Layered Cathode Material for Enhancing Electrochemical Performance. <i>Advanced Energy Materials</i> , 2021, 11, 2003455.  | 19.5 | 46        |
| 63 | Suppressing the chromium disproportionation reaction in O3-type layered cathode materials for high capacity sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5442-5448.  | 10.3 | 45        |
| 64 | Structural integrity—Searching the key factor to suppress the voltage fade of Li-rich layered cathode materials through 3D X-ray imaging and spectroscopy techniques. <i>Nano Energy</i> , 2016, 28, 164-171.  | 16.0 | 44        |
| 65 | Biomass-derived high-performance tungsten-based electrocatalysts on graphene for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18572-18577.   | 10.3 | 43        |
| 66 | Finding a Needle in the Haystack: Identification of Functionally Important Minority Phases in an Operating Battery. <i>Nano Letters</i> , 2017, 17, 7782-7788.   | 9.1  | 42        |
| 67 | Correlations between Transition-Metal Chemistry, Local Structure, and Global Structure in Li <sub>2</sub> Ru <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3</sub> Investigated in a Wide Voltage Window. <i>Chemistry of Materials</i> , 2017, 29, 9053-9065. | 6.7  | 40        |
| 68 | Novel Low-Temperature Electrolyte Using Isoxazole as the Main Solvent for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 24995-25001.  | 8.0  | 38        |
| 69 | Low-Valence Metal Single Atoms on Graphdiyne Promotes Electrochemical Nitrogen Reduction via M <sub>2</sub> N <sub>2</sub> Backdonation. <i>Advanced Functional Materials</i> , 2022, 32, .  | 14.9 | 38        |
| 70 | Toward Higher Voltage Solid-State Batteries by Metastability and Kinetic Stability Design. <i>Advanced Energy Materials</i> , 2020, 10, 2001569.   | 19.5 | 36        |
| 71 | Mesoscale-architecture-based crack evolution dictating cycling stability of advanced lithium ion batteries. <i>Nano Energy</i> , 2021, 79, 105420.   | 16.0 | 36        |
| 72 | Utilizing Environmental Friendly Iron as a Substitution Element in Spinel Structured Cathode Materials for Safer High Energy Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1501662.   | 19.5 | 35        |

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|----|--|------|-----------|
| 73 | Synthesis and Characterization of a Molecularly Designed High-Performance Organodisulfide as Cathode Material for Lithium Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900705.  | 19.5 | 34        |
| 74 | A Redox-Active 2D Metal-Organic Framework for Efficient Lithium Storage with Extraordinary High Capacity. <i>Angewandte Chemie</i> , 2020, 132, 5311-5315.   | 2.0  | 34        |
| 75 | Depth-dependent valence stratification driven by oxygen redox in lithium-rich layered oxide. <i>Nature Communications</i> , 2020, 11, 6342.  | 12.8 | 34        |
| 76 | Thermal stability in the blended lithium manganese oxide – Lithium nickel cobalt manganese oxide cathode materials: An in situ time-resolved X-Ray diffraction and mass spectroscopy study. <i>Journal of Power Sources</i> , 2015, 277, 193-197.            | 7.8  | 33        |
| 77 | Anionic redox induced anomalous structural transition in Ni-rich cathodes. <i>Energy and Environmental Science</i> , 2021, 14, 6441-6454.  | 30.8 | 33        |
| 78 | Another Strategy, Detouring Potential Decay by Fast Completion of Cation Mixing. <i>Advanced Energy Materials</i> , 2018, 8, 1703092.  | 19.5 | 30        |
| 79 | Large-Scale Synthesis and Comprehensive Structure Study of $\text{LiMnO}_2$ . <i>Inorganic Chemistry</i> , 2018, 57, 6873-6882.  | 4.0  | 29        |
| 80 | Atomically Dispersed Nickel(I) on an Alloy-Encapsulated Nitrogen-Doped Carbon Nanotube Array for High-Performance Electrochemical $\text{CO}_2$ Reduction Reaction. <i>Angewandte Chemie</i> , 2020, 132, 12153-12159.                                       | 2.0  | 27        |
| 81 | Sodium storage property and mechanism of $\text{NaCr}_{1/4}\text{Fe}_{1/4}\text{Ni}_{1/4}\text{Ti}_{1/4}\text{O}_2$ cathode at various cut-off voltages. <i>Energy Storage Materials</i> , 2020, 24, 417-425.  | 18.0 | 25        |
| 82 | Understanding the Roles of the Electrode/Electrolyte Interface for Enabling Stable $\text{Li}^+$ -Sulfurized Polyacrylonitrile Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 31733-31740.   | 8.0  | 25        |
| 83 | Improved Low Temperature Performance of Graphite/Li Cells Using Isoxazole as a Novel Cosolvent in Electrolytes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 070527.   | 2.9  | 25        |
| 84 | Divalent Iron Nitridophosphates: A New Class of Cathode Materials for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2013, 25, 3929-3931.   | 6.7  | 23        |
| 85 | Pair distribution function analysis: Fundamentals and application to battery materials. <i>Chinese Physics B</i> , 2020, 29, 028802.   | 1.4  | 23        |
| 86 | Expanded lithiation of titanium disulfide: Reaction kinetics of multi-step conversion reaction. <i>Nano Energy</i> , 2019, 63, 103882.   | 16.0 | 21        |
| 87 | Unified View of the Local Cation-Ordered State in Inverse Spinel Oxides. <i>Inorganic Chemistry</i> , 2019, 58, 14389-14402.   | 4.0  | 21        |
| 88 | The Role of Electron Localization in Covalency and Electrochemical Properties of Lithium-Ion Battery Cathode Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2001633.  | 14.9 | 21        |
| 89 | <i>In Situ</i> Neutron Diffraction Studies of the Ion Exchange Synthesis Mechanism of $\text{Li}_2\text{Mg}_2\text{P}_3\text{O}_9\text{N}$ : Evidence for a Hidden Phase Transition. <i>Journal of the American Chemical Society</i> , 2017, 139, 9192-9202. | 13.7 | 19        |
| 90 | Fundamental Linkage Between Structure, Electrochemical Properties, and Chemical Compositions of $\text{LiNi}_{1-x}\text{Mn}_x\text{Co}_y\text{O}_2$ Cathode Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 2622-2629.                  | 8.0  | 19        |

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| 91  | How Water Accelerates Bivalent Ion Diffusion at the Electrolyte/Electrode Interface. <i>Angewandte Chemie</i> , 2018, 130, 12154-12157.   | 2.0  | 17        |
| 92  | Engineering and characterization of interphases for lithium metal anodes. <i>Chemical Science</i> , 2022, 13, 1547-1568.  | 7.4  | 17        |
| 93  | Oxygen redox chemistry in $P2\text{-Na}_{0.6}\text{Li}_{0.11}\text{Fe}_{0.27}\text{Mn}_{0.62}\text{O}_2$ cathode for high-energy Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27651-27659.  | 10.3 | 16        |
| 94  | Imaging the surface morphology, chemistry and conductivity of $\text{LiNi}_{1/3}\text{Fe}_{1/3}\text{Mn}_{4/3}\text{O}_4$ crystalline facets using scanning transmission X-ray microscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22789-22793.  | 2.8  | 14        |
| 95  | Vacancy-Enabled O3 Phase Stabilization for Manganese-Rich Layered Sodium Cathodes. <i>Angewandte Chemie</i> , 2021, 133, 8339-8348.   | 2.0  | 14        |
| 96  | Strategies to curb structural changes of lithium/transition metal oxide cathode materials & the changes' effects on thermal & cycling stability. <i>Chinese Physics B</i> , 2016, 25, 018205.   | 1.4  | 13        |
| 97  | A new carbon-incorporated lithium phosphate solid electrolyte. <i>Journal of Power Sources</i> , 2021, 514, 230603.   | 7.8  | 13        |
| 98  | Few-Atom Copper Catalyst for the Electrochemical Reduction of CO to Acetate: Synergetic Catalysis between Neighboring Cu Atoms. <i>CCS Chemistry</i> , 2023, 5, 1176-1188.  | 7.8  | 13        |
| 99  | Highly Reversible Aqueous Zinc Batteries enabled by Zincophilic-Zincophobic Interfacial Layers and Interrupted Hydrogen-Bond Electrolytes. <i>Angewandte Chemie</i> , 2021, 133, 18993-18999.   | 2.0  | 11        |
| 100 | Preparation and Cyclic Performance of $\text{Li}_{1.2}(\text{Fe}_{0.16}\text{Mn}_{0.32}\text{Ni}_{0.32})\text{O}_2$ Layered Cathode Material by the Mixed Hydroxide Method. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 1995-2000.   | 1.9  | 9         |
| 101 | Cathode Materials: Combining In Situ Synchrotron X-Ray Diffraction and Absorption Techniques with Transmission Electron Microscopy to Study the Origin of Thermal Instability in Overcharged Cathode Materials for Lithium-Ion Batteries ( <i>Adv. Funct. Mater.</i> 8/2013). <i>Advanced Functional Materials</i> , 2013, 23, 1046-1046. | 14.9 | 7         |
| 102 | Reversible dual anionic-redox chemistry in NaCrSSe with fast charging capability. <i>Journal of Power Sources</i> , 2021, 502, 230022.  | 7.8  | 5         |
| 103 | Isoxazole-Based Electrolytes for Lithium Metal Protection and Lithium-Sulfurized Polyacrylonitrile (SPAN) Battery Operating at Low Temperature. <i>Journal of the Electrochemical Society</i> , 2022, 169, 030513.  | 2.9  | 4         |
| 104 | Anionic Redox Reaction-Induced High-Capacity and Low-Strain Cathode with Suppressed Phase Transition. <i>Joule</i> , 2019, 3, 612.  | 24.0 | 3         |
| 105 | Exploring Lithium Deficiency in Layered Oxide Cathode for Li-Ion Battery. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700026.   | 5.3  | 1         |
| 106 | Mechanistic Insights into the Interplay between Ion Intercalation and Water Electrolysis in Aqueous Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 12130-12139.   | 8.0  | 1         |
| 107 | Li-Ion Batteries: Exploring Lithium Deficiency in Layered Oxide Cathode for Li-Ion Battery (Adv.) <i>Tj ETQq1 1 0.784314 rgBT_0/Overlook</i>  | 5.3  | 0         |
| 108 | Synchrotron Radiation Nanoscale X-ray Imaging Technology And Scientific Big Data Mining Assist Energy Materials Research. <i>Microscopy and Microanalysis</i> , 2018, 24, 542-543.  | 0.4  | 0         |

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|-----|--|-----|-----------|
| 109 | Titelbild: A Redox-Active 2D Metal-Organic Framework for Efficient Lithium Storage with Extraordinary High Capacity (Angew. Chem. 13/2020). <i>Angewandte Chemie</i> , 2020, 132, 5005-5005. | 2.0 | 0         |