# Qin-Fen Gu

List of Publications by Year
in descending order

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|---|---|---|---|
| 235 papers | 13,636 citations | 17440 63 h-index | 27406 106 g-index |
| 241 all docs | 241 docs citations | 241 times ranked | 12759 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A two-dimensional zeolitic imidazolate framework with a cushion-shaped cavity for CO2 adsorption. Chemical Communications, 2013, 49, 9500. | 4.1 | 514 |
| 2 | Transition Metal Borides: Superhard versus Ultraâ€incompressible. Advanced Materials, 2008, 20, 3620-3626. | 21.0 | 467 |
| 3 | Discriminative Separation of Gases by a â€œMolecular Trapdoorâ€•Mechanism in Chabazite Zeolites. Journal of the American Chemical Society, 2012, 134, 19246-19253. | 13.7 | 321 |
| 4 | Atomic cobalt as an efficient electrocatalyst in sulfur cathodes for superior room-temperature sodium-sulfur batteries. Nature Communications, 2018, 9, 4082. | 12.8 | 305 |
| 5 | Hydrogen Storage Materials for Mobile and Stationary Applications: Current State of the Art. ChemSusChem, 2015, 8, 2789-2825. | 6.8 | 302 |
| 6 | Reversible structural evolution of sodium-rich rhombohedral Prussian blue for sodium-ion batteries. Nature Communications, 2020, 11, 980. | 12.8 | 283 |
| 7 | Achieving High-Performance Room-Temperature Sodiumâ€“Sulfur Batteries With S@Interconnected Mesoporous Carbon Hollow Nanospheres. Journal of the American Chemical Society, 2016, 138, 16576-16579. | 13.7 | 280 |
| 8 | NASICON-type air-stable and all-climate cathode for sodium-ion batteries with low cost and high-power density. Nature Communications, 2019, 10, 1480. | 12.8 | 260 |
| 9 | Atomic Engineering Catalyzed MnO<sub>2</sub> Electrolysis Kinetics for a Hybrid Aqueous Battery with High Power and Energy Density. Advanced Materials, 2020, 32, e2001894. | 21.0 | 221 |
| 10 | Comprehensive Determination of Kinetic Parameters in Solid-State Phase Transitions: An Extended Jonhsonâ€“Mehlâ€“Avramiâ€“Kolomogorov Model with Analytical Solutions. Crystal Growth and Design, 2016, 16, 2404-2415. | 3.0 | 206 |
| 11 | The effect of different binders on electrochemical properties of LiNi1/3Mn1/3Co1/3O2 cathode material in lithium ion batteries. Journal of Power Sources, 2013, 225, 172-178. | 7.8 | 202 |
| 12 | Insight into Si poisoning on grain refinement of Al-Si/Al-5Ti-B system. Acta Materialia, 2020, 187, 51-65. | 7.9 | 195 |
| 13 | In Situ Growth of Layered Bimetallic ZnCo Hydroxide Nanosheets for High-Performance All-Solid-State Pseudocapacitor. ACS Nano, 2018, 12, 2968-2979. | 14.6 | 193 |
| 14 | Three-Dimensional MOFs@MXene Aerogel Composite Derived MXene Threaded Hollow Carbon Confined CoS Nanoparticles toward Advanced Alkali-Ion Batteries. ACS Nano, 2021, 15, 3228-3240. | 14.6 | 189 |
| 15 | Sandwichâ€Like Ultrathin TiS<sub>2</sub> Nanosheets Confined within N, S Codoped Porous Carbon as an Effective Polysulfide Promoter in Lithiumâ€Sulfur Batteries. Advanced Energy Materials, 2019, 9, 1901872. | 19.5 | 186 |
| 16 | Ultrathin water-stable metal-organic framework membranes for ion separation. Science Advances, 2020, 6, eaay3998. | 10.3 | 179 |
| 17 | Hydrothermal Synthesis of Metalâ€“Polyphenol Coordination Crystals and Their Derived Metal/Nâ€doped Carbon Composites for Oxygen Electrocatalysis. Angewandte Chemie - International Edition, 2016, 55, 12470-12474. | 13.8 | 178 |
| 18 | Hydrogenation Synthesis of Blue TiO<sub>2</sub> for High-Performance Lithium-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 8824-8830. | 3.1 | 167 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Multifunctional conducing polymer coated Na1+MnFe(CN)6 cathode for sodium-ion batteries with superior performance via a facile and one-step chemistry approach. Nano Energy, 2015, 13, 200-207. | 16.0 | 165 |
| 20 | Facile Method To Synthesize Na-Enriched Na<sub>1+x</sub>FeFe(CN)<sub>6</sub> Frameworks as Cathode with Superior Electrochemical Performance for Sodium-Ion Batteries. Chemistry of Materials, 2015, 27, 1997-2003. | 6.7 | 163 |
| 21 | Molten Salt-Directed Catalytic Synthesis of 2D Layered Transition-Metal Nitrides for Efficient Hydrogen Evolution. CheM, 2020, 6, 2382-2394. | 11.7 | 163 |
| 22 | Carbonâ€Coated Na<sub>3.32</sub>Fe<sub>2.34</sub>(P<sub>2</sub>O<sub>7</sub>)<sub>2</sub> Cathode Material for Highâ€Rate and Longâ€Life Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1605535. | 21.0 | 161 |
| 23 | Ultrathin VSe<sub>2</sub> Nanosheets with Fast Ion Diffusion and Robust Structural Stability for Rechargeable Zincâ€Ion Battery Cathode. Small, 2020, 16, e2000698. | 10.0 | 154 |
| 24 | Electronâ€State Confinement of Polysulfides for Highly Stable Sodiumâ€“Sulfur Batteries. Advanced Materials, 2020, 32, e1907557. | 21.0 | 150 |
| 25 | Nickel sulfide nanocrystals on nitrogen-doped porous carbon nanotubes with high-efficiency electrocatalysis for room-temperature sodium-sulfur batteries. Nature Communications, 2019, 10, 4793. | 12.8 | 147 |
| 26 | Facile Synthesis of Hierarchical Hollow CoP@C Composites with Superior Performance for Sodium and Potassium Storage. Angewandte Chemie - International Edition, 2020, 59, 5159-5164. | 13.8 | 142 |
| 27 | Multi-shell hollow structured Sb2S3 for sodium-ion batteries with enhanced energy density. Nano Energy, 2019, 60, 591-599. | 16.0 | 136 |
| 28 | Charge Transfer in Ultrafine LDH Nanosheets/Graphene Interface with Superior Capacitive Energy Storage Performance. ACS Applied Materials & Interfaces, 2017, 9, 37645-37654. | 8.0 | 134 |
| 29 | Thermally treated zeolitic imidazolate framework-8 (ZIF-8) for visible light photocatalytic degradation of gaseous formaldehyde. Chemical Science, 2020, 11, 6670-6681. | 7.4 | 130 |
| 30 | Atomically Dispersed Iron Metal Site in a Porphyrin-Based Metalâ€“Organic Framework for Photocatalytic Nitrogen Fixation. ACS Nano, 2021, 15, 9670-9678. | 14.6 | 127 |
| 31 | A Highâ€Kinetics Sulfur Cathode with a Highly Efficient Mechanism for Superior Roomâ€Temperature Naâ€“S Batteries. Advanced Materials, 2020, 32, e1906700. | 21.0 | 126 |
| 32 | The influence of Ni and Zn additions on microstructure and phase transformations in Snâ€“0.7Cu/Cu solder joints. Acta Materialia, 2015, 83, 357-371. | 7.9 | 119 |
| 33 | Faster Activation and Slower Capacity/Voltage Fading: A Bifunctional Urea Treatment on Lithiumâ€Rich Cathode Materials. Advanced Functional Materials, 2020, 30, 1909192. | 14.9 | 117 |
| 34 | Incorporation of Homochirality into a Zeolitic Imidazolate Framework Membrane for Efficient Chiral Separation. Angewandte Chemie - International Edition, 2018, 57, 17130-17134. | 13.8 | 113 |
| 35 | MXene derived TiS2 nanosheets for high-rate and long-life sodium-ion capacitors. Energy Storage Materials, 2020, 26, 550-559. | 18.0 | 108 |
| 36 | Multiangular Rod-Shaped Na<sub>0.44</sub>MnO<sub>2</sub> as Cathode Materials with High Rate and Long Life for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 3644-3652. | 8.0 | 107 |

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|---|---|---|---|
| 37 | Maximizing sinusoidal channels of HZSM-5 for high shape-selectivity to p-xylene. Nature Communications, 2019, 10, 4348. | 12.8 | 102 |
| 38 | P2-type Na<sub>2/3</sub>Ni<sub>1/3</sub>Mn<sub>2/3</sub>O<sub>2</sub> as a cathode material with high-rate and long-life for sodium ion storage. Journal of Materials Chemistry A, 2019, 7, 9215-9221. | 10.3 | 102 |
| 39 | A Novel Graphene Oxide Wrapped Na<sub>2</sub>Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>/C Cathode Composite for Long Life and High Energy Density Sodiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1800944. | 19.5 | 101 |
| 40 | Development and Investigation of a NASICONâ€Type Highâ€Voltage Cathode Material for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 2449-2456. | 13.8 | 101 |
| 41 | Electrocatalyzing S Cathodes via Multisulfiphilic Sites for Superior Room-Temperature Sodiumâ€“Sulfur Batteries. ACS Nano, 2020, 14, 7259-7268. | 14.6 | 100 |
| 42 | The cycling stability of the in situ formed Mg-based nanocomposite catalyzed by YH<sub>2</sub>. Journal of Materials Chemistry A, 2017, 5, 17532-17543. | 10.3 | 93 |
| 43 | Origin of large electric-field-induced strain in pseudo-cubic BiFeO3â€“BaTiO3 ceramics. Acta Materialia, 2020, 197, 1-9. | 7.9 | 93 |
| 44 | A Hydrostable Cathode Material Based on the Layered P2@P3 Composite that Shows Redox Behavior for Copper in Highâ€Rate and Longâ€Cycling Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2019, 58, 1412-1416. | 13.8 | 92 |
| 45 | Facile synthesis of CuBTC and its graphene oxide composites as efficient adsorbents for CO2 capture. Chemical Engineering Journal, 2020, 393, 124666. | 12.7 | 85 |
| 46 | A 12R long-period stacking-ordered structure in a Mg-Ni-Y alloy. Journal of Materials Science and Technology, 2018, 34, 2235-2239. | 10.7 | 83 |
| 47 | Structure and decomposition of zinc borohydride ammonia adduct: towards a pure hydrogen release. Energy and Environmental Science, 2012, 5, 7590. | 30.8 | 82 |
| 48 | In-situ observation of grain refinement dynamics of hypoeutectic Al-Si alloy inoculated by Al-Ti-Nb-B alloy. Scripta Materialia, 2020, 187, 142-147. | 5.2 | 82 |
| 49 | Self-Assembled Hydrophobic/Hydrophilic Porphyrin-Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> MXene Janus Membrane for Dual-Functional Enabled Photothermal Desalination. ACS Applied Materials & Interfaces, 2021, 13, 3762-3770. | 8.0 | 82 |
| 50 | The mechanism for the enhanced piezoelectricity in multi-elements doped (K,Na)NbO3 ceramics. Nature Communications, 2021, 12, 881. | 12.8 | 82 |
| 51 | Revealing the Origin of Improved Reversible Capacity of Dual-Shell Bismuth Boxes Anode for Potassium-Ion Batteries. Matter, 2019, 1, 1681-1693. | 10.0 | 81 |
| 52 | General Synthesis of Singleâ€Atom Catalysts for Hydrogen Evolution Reactions and Roomâ€Temperature Naâ€S Batteries. Angewandte Chemie - International Edition, 2020, 59, 22171-22178. | 13.8 | 80 |
| 53 | A Mo5N6 electrocatalyst for efficient Na2S electrodeposition in room-temperature sodium-sulfur batteries. Nature Communications, 2021, 12, 7195. | 12.8 | 80 |
| 54 | A Cation and Anion Dual Doping Strategy for the Elevation of Titanium Redox Potential for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 12076-12083. | 13.8 | 78 |

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|---|---|---|---|
| 55 | Enhancing the High Rate Capability and Cycling Stability of LiMn<sub>2</sub>O<sub>4</sub> by Coating of Solid-State Electrolyte LiNbO<sub>3</sub>. ACS Applied Materials & Interfaces, 2014, 6, 22155-22165. | 8.0 | 75 |
| 56 | Impact of pressure on physicochemical properties of starch dispersions. Food Hydrocolloids, 2017, 68, 164-177. | 10.7 | 74 |
| 57 | Directly anchoring Fe3C nanoclusters and FeNx sites in ordered mesoporous nitrogen-doped graphitic carbons to boost electrocatalytic oxygen reduction. Carbon, 2017, 121, 143-153. | 10.3 | 71 |
| 58 | In-situ synchrotron X-ray diffraction investigation on hydrogen-induced decomposition of long period stacking ordered structure in Mgâ€“Niâ€“Y system. Scripta Materialia, 2017, 127, 102-107. | 5.2 | 70 |
| 59 | Transition metal cation-exchanged SSZ-13 zeolites for CO2 capture and separation from N2. Chemical Engineering Journal, 2019, 370, 1450-1458. | 12.7 | 70 |
| 60 | Efficient Gating of Ion Transport in Threeâ€Dimensional Metalâ€“Organic Framework Subâ€Nanochannels with Confined Lightâ€Responsive Azobenzene Molecules. Angewandte Chemie - International Edition, 2020, 59, 13051-13056. | 13.8 | 70 |
| 61 | Photocatalytic Bacterial Inactivation by a Rape Pollen-MoS<sub>2</sub> Biohybrid Catalyst: Synergetic Effects and Inactivation Mechanisms. Environmental Science & Technology, 2020, 54, 537-549. | 10.0 | 69 |
| 62 | Achievement in grain-refining hypoeutectic Al-Si alloys with Nb. Scripta Materialia, 2019, 160, 75-80. | 5.2 | 68 |
| 63 | Ice-Assisted Synthesis of Highly Crystallized Prussian Blue Analogues for All-Climate and Long-Calendar-Life Sodium Ion Batteries. Nano Letters, 2022, 22, 1302-1310. | 9.1 | 68 |
| 64 | Thermodynamic investigation on phase formation in the Alâ€“Si rich region of Alâ€“Siâ€“Ti system. Materials and Design, 2016, 102, 78-90. | 7.0 | 67 |
| 65 | Solving Key Challenges in Battery Research Using In Situ Synchrotron and Neutron Techniques. Advanced Energy Materials, 2017, 7, 1602831. | 19.5 | 67 |
| 66 | Achieving superior cycling stability byin situforming NdH<sub>2</sub>â€“Mgâ€“Mg<sub>2</sub>Ni nanocomposites. Journal of Materials Chemistry A, 2018, 6, 23308-23317. | 10.3 | 67 |
| 67 | Stress Distortion Restraint to Boost the Sodium Ion Storage Performance of a Novel Binary Hexacyanoferrate. Advanced Energy Materials, 2020, 10, 1903006. | 19.5 | 67 |
| 68 | Effect of Eliminating Water in Prussian Blue Cathode for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2022, 32, . | 14.9 | 66 |
| 69 | Phase transition and hydrogen storage properties of Mg17Ba2 compound. Journal of Alloys and Compounds, 2017, 690, 519-522. | 5.5 | 65 |
| 70 | A New Ammine Dualâ€Cation (Li, Mg) Borohydride: Synthesis, Structure, and Dehydrogenation Enhancement. Chemistry - A European Journal, 2012, 18, 6825-6834. | 3.3 | 62 |
| 71 | Insights into the composition exploration of novel hydrogen storage alloys: evaluation of the Mgâ€“Niâ€“Ndâ€“H phase diagram. Journal of Materials Chemistry A, 2017, 5, 3848-3864. | 10.3 | 62 |
| 72 | General Synthesis of Singleâ€Atom Catalysts for Hydrogen Evolution Reactions and Roomâ€Temperature Naâ€S Batteries. Angewandte Chemie, 2020, 132, 22355-22362. | 2.0 | 62 |

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| 73 | Understanding rhombohedral iron hexacyanoferrate with three different sodium positions for high power and long stability sodium-ion battery. Energy Storage Materials, 2020, 30, 42-51. | 18.0 | 62 |
| 74 | Complex Ammine Titanium(III) Borohydrides as Advanced Solid Hydrogen-Storage Materials with Favorable Dehydrogenation Properties. Chemistry of Materials, 2012, 24, 3370-3379. | 6.7 | 61 |
| 75 | Temperature-regulated guest admission and release in microporous materials. Nature Communications, 2017, 8, 15777. | 12.8 | 60 |
| 76 | A Layered Zn<sub>0.4</sub>VOPO<sub>4</sub>·0.8H<sub>2</sub>O Cathode for Robust and Stable Zn Ion Storage. ACS Applied Energy Materials, 2020, 3, 3919-3927. | 5.1 | 60 |
| 77 | Novel Sub€5 nm Layered Niobium Phosphate Nanosheets for High€Voltage, Cation€Intercalation Typed Electrochemical Energy Storage in Wearable Pseudocapacitors. Advanced Energy Materials, 2019, 9, 1900111. | 19.5 | 57 |
| 78 | In situ study starch gelatinization under ultra-high hydrostatic pressure using synchrotron SAXS. Food Hydrocolloids, 2016, 56, 58-61. | 10.7 | 56 |
| 79 | Phosphorus€Modulation€Triggered Surface Disorder in Titanium Dioxide Nanocrystals Enables Exceptional Sodium€Storage Performance. Angewandte Chemie - International Edition, 2019, 58, 4022-4026. | 13.8 | 56 |
| 80 | Structure and hydrogenstorage properties of the first rare-earth metal borohydride ammoniate: Y(BH<sub>4</sub>)<sub>3</sub>·4NH<sub>3</sub>. Journal of Materials Chemistry, 2012, 22, 1061-1068. | 6.7 | 55 |
| 81 | In-situ investigation of the hydrogen release mechanism in bulk Mg2NiH4. Journal of Power Sources, 2017, 341, 130-138. | 7.8 | 55 |
| 82 | Exfoliated Ni-Al LDH 2D nanosheets for intermediate temperature CO2 capture. Journal of Hazardous Materials, 2019, 374, 365-371. | 12.4 | 55 |
| 83 | Phase Equilibria, Crystal Structure and Hydriding/Dehydriding Mechanism of Nd4Mg80Ni8 Compound. Scientific Reports, 2015, 5, 15385. | 3.3 | 53 |
| 84 | Rapid Amorphization in Metastable CoSeO<sub>3</sub>·H<sub>2</sub>O Nanosheets for Ultrafast Lithiation Kinetics. ACS Nano, 2018, 12, 5011-5020. | 14.6 | 53 |
| 85 | Catalytic Oxidation of K<sub>2</sub>S via Atomic Co and Pyridinic N Synergy in Potassium€“Sulfur Batteries. Journal of the American Chemical Society, 2021, 143, 16902-16907. | 13.7 | 53 |
| 86 | Ammine bimetallic (Na, Zn) borohydride for advanced chemical hydrogen storage. Journal of Materials Chemistry, 2012, 22, 7300. | 6.7 | 52 |
| 87 | Bottom-up Approach Design, Band Structure, and Lithium Storage Properties of Atomically Thin Î³-FeOOH Nanosheets. ACS Applied Materials & Interfaces, 2016, 8, 21334-21342. | 8.0 | 49 |
| 88 | Transition€Metal€Containing Porphyrin Metal€“Organic Frameworks as Ï€€Backbonding Adsorbents for NO<sub>2</sub> Removal. Angewandte Chemie - International Edition, 2020, 59, 19680-19683. | 13.8 | 49 |
| 89 | Continuous Carbon Channels Enable Full Na€Ion Accessibility for Superior Room€Temperature Na€“S Batteries. Advanced Materials, 2022, 34, e2108363. | 21.0 | 49 |
| 90 | Three-dimensional-network Li3V2(PO4)3/C composite as high rate lithium ion battery cathode material and its compatibility with ionic liquid electrolytes. Journal of Power Sources, 2014, 246, 124-131. | 7.8 | 48 |

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|---|---|---|---|
| 91 | Kinetics of the polymorphic phase transformation of Cu6Sn5. Acta Materialia, 2014, 69, 135-148. | 7.9 | 48 |
| 92 | Enhanced Potassium Ion Battery by Inducing Interlayer Anionic Ligands in MoS<sub>1.5</sub>Se<sub>0.5</sub> Nanosheets with Exploration of the Mechanism. Advanced Energy Materials, 2020, 10, 1904162. | 19.5 | 48 |
| 93 | In situ study of maize starch gelatinization under ultra-high hydrostatic pressure using X-ray diffraction. Carbohydrate Polymers, 2013, 97, 235-238. | 10.2 | 47 |
| 94 | Light metals decorated covalent triazine-based frameworks as a high capacity hydrogen storage medium. Journal of Materials Chemistry A, 2013, 1, 11705. | 10.3 | 47 |
| 95 | 2D Titaniaâ€“Carbon Superlattices Vertically Encapsulated in 3D Hollow Carbon Nanospheres Embedded with 0D TiO<sub>2</sub> Quantum Dots for Exceptional Sodiumâ€Ion Storage. Angewandte Chemie - International Edition, 2019, 58, 14125-14128. | 13.8 | 47 |
| 96 | A Novel Approach to Highâ€Performance Aliovalentâ€Substituted Catalystsâ€”2D Bimetallic MOFâ€Derived CeCuO<sub>x</sub> Microsheets. Small, 2019, 15, e1903525. | 10.0 | 46 |
| 97 | Architecting Freestanding Sulfur Cathodes for Superior Roomâ€Temperature Naâ€“S Batteries. Advanced Functional Materials, 2021, 31, 2102280. | 14.9 | 46 |
| 98 | A simple electrochemical cell for in-situ fundamental structural analysis using synchrotron X-ray powder diffraction. Journal of Power Sources, 2013, 244, 109-114. | 7.8 | 45 |
| 99 | Converting 3D rigid metalâ€“organic frameworks (MOFs) to 2D flexible networks via ligand exchange for enhanced CO<sub>2</sub>/N<sub>2</sub> and CH<sub>4</sub>/N<sub>2</sub> separation. Chemical Communications, 2015, 51, 14716-14719. | 4.1 | 45 |
| 100 | A novel aided-cation strategy to advance the dehydrogenation of calcium borohydride monoammoniate. Journal of Materials Chemistry, 2012, 22, 5312. | 6.7 | 44 |
| 101 | Selective electrochemical hydrogenation of furfural to 2-methylfuran over a single atom Cu catalyst under mild pH conditions. Green Chemistry, 2021, 23, 3028-3038. | 9.0 | 43 |
| 102 | Hydrothermal Synthesis of Metalâ€“Polyphenol Coordination Crystals and Their Derived Metal/Nâ€doped Carbon Composites for Oxygen Electrocatalysis. Angewandte Chemie, 2016, 128, 12658-12662. | 2.0 | 42 |
| 103 | Phase stability and thermal expansion behavior of Cu6Sn5 intermetallics doped with Zn, Au and In. Intermetallics, 2013, 43, 85-98. | 3.9 | 41 |
| 104 | Facile Synthesis of Unsolvated Alkali Metal Octahydrotriborate Salts MB<sub>3</sub>H<sub>8</sub> (M=K, Rb, and Cs), Mechanisms of Formation, and the Crystal Structure of KB<sub>3</sub>H<sub>8</sub>. Angewandte Chemie - International Edition, 2019, 58, 2720-2724. | 13.8 | 39 |
| 105 | Sustainable S cathodes with synergic electrocatalysis for room-temperature Naâ€“S batteries. Journal of Materials Chemistry A, 2021, 9, 566-574. | 10.3 | 39 |
| 106 | Novel M (Mg/Ni/Cu)-Al-CO3 layered double hydroxides synthesized by aqueous miscible organic solvent treatment (AMOST) method for CO2 capture. Journal of Hazardous Materials, 2019, 373, 285-293. | 12.4 | 38 |
| 107 | Manipulating Molecular Structure and Morphology to Invoke Highâ€Performance Sodium Storage of Copper Phosphide. Advanced Energy Materials, 2020, 10, 1903542. | 19.5 | 38 |
| 108 | The influence of ageing on the stabilisation of interfacial (Cu,Ni)6(Sn,Zn)5 and (Cu,Au,Ni)6Sn5 intermetallics in Pb-free Ball Grid Array (BGA) solder joints. Journal of Alloys and Compounds, 2016, 685, 471-482. | 5.5 | 37 |

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|---|---|---|---|
| 109 | Scandium and vanadium borohydride ammoniates: Enhanced dehydrogenation behavior upon coordinative expansion and establishment of HÎ´+â‹¯â´Î´H interactions. Acta Materialia, 2013, 61, 3110-3119. | 7.9 | 35 |
| 110 | Stabilization of NaZn(BH<sub>4</sub>)<sub>3</sub>via nanoconfinement in SBA-15 towards enhanced hydrogen release. Journal of Materials Chemistry A, 2013, 1, 250-257. | 10.3 | 34 |
| 111 | Synthesis, structure and dehydrogenation of zirconium borohydride octaammoniate. Chemical Communications, 2015, 51, 2794-2797. | 4.1 | 34 |
| 112 | Characterisation of lithium-ion battery anodes fabricated via in-situ Cu6Sn5 growth on a copper current collector. Journal of Power Sources, 2019, 415, 50-61. | 7.8 | 34 |
| 113 | Synthesis, structures and hydrogen storage properties of two new H-enriched compounds: Mg(BH4)2(NH3BH3)2 and Mg(BH4)2Â·(NH3)2(NH3BH3). Dalton Transactions, 2013, 42, 14365. | 3.3 | 33 |
| 114 | Temperature controlled invertible selectivity for adsorption of N2 and CH4 by molecular trapdoor chabazites. Chemical Communications, 2014, 50, 4544. | 4.1 | 33 |
| 115 | Controlled-Size Hollow Magnesium Sulfide Nanocrystals Anchored on Graphene for Advanced Lithium Storage. ACS Nano, 2018, 12, 12741-12750. | 14.6 | 33 |
| 116 | Electrochemical Hydrogenation of Furfural in Aqueous Acetic Acid Media with Enhanced 2â€Methylfuran Selectivity Using CuPd Bimetallic Catalysts. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 33 |
| 117 | Epitaxial growth of an atom-thin layer on a LiNi0.5Mn1.5O4 cathode for stable Li-ion battery cycling. Nature Communications, 2022, 13, 1565. | 12.8 | 32 |
| 118 | Li<sup>+</sup>/ZSM-25 Zeolite as a CO<sub>2</sub> Capture Adsorbent with High Selectivity and Improved Adsorption Kinetics, Showing CO<sub>2</sub>-Induced Framework Expansion. Journal of Physical Chemistry C, 2018, 122, 18933-18941. | 3.1 | 31 |
| 119 | Experimental study and thermodynamic evaluation of Mgâ€“Laâ€“Zn system. Journal of Alloys and Compounds, 2020, 814, 152297. | 5.5 | 31 |
| 120 | Three-Dimensional Electronic Network Assisted by TiN Conductive Pillars and Chemical Adsorption to Boost the Electrochemical Performance of Red Phosphorus. ACS Nano, 2020, 14, 4609-4617. | 14.6 | 31 |
| 121 | Adsorption and visible-light photocatalytic degradation of organic pollutants by functionalized biochar: Role of iodine doping and reactive species. Environmental Research, 2021, 197, 111026. | 7.5 | 31 |
| 122 | Atomically dispersed S-Fe-N4 for fast kinetics sodium-sulfur batteries via a dual function mechanism. Cell Reports Physical Science, 2021, 2, 100531. | 5.6 | 31 |
| 123 | Nanoconfinement significantly improves the thermodynamics and kinetics of co-infiltrated 2LiBH4â€“LiAlH4 composites: Stable reversibility of hydrogen absorption/resorption. Acta Materialia, 2013, 61, 6882-6893. | 7.9 | 30 |
| 124 | Surface Stabilization of O3-type Layered Oxide Cathode to Protect the Anode of Sodium Ion Batteries for Superior Lifespan. IScience, 2019, 19, 244-254. | 4.1 | 29 |
| 125 | Properties of CuGa2 Formed Between Liquid Ga and Cu Substrates at Room Temperature. Journal of Electronic Materials, 2020, 49, 128-139. | 2.2 | 29 |
| 126 | A P3-Type K<sub>1/2</sub>Mn<sub>5/6</sub>Mg<sub>1/12</sub>Ni<sub>1/12</sub>O<sub>2</sub> Cathode Material for Potassium-Ion Batteries with High Structural Reversibility Secured by the Mgâ€“Ni Pinning Effect. ACS Applied Materials & Interfaces, 2021, 13, 28369-28377. | 8.0 | 29 |

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|---|---|---|---|
| 127 | Metal cation-promoted hydrogen generation in activated aluminium borohydride ammoniates. Acta Materialia, 2013, 61, 4787-4796. | 7.9 | 28 |
| 128 | Precipitation mechanism of Mg2Ni in Mg-Ni-Y studied by STEM, 3DAP and first-principles calculations. Journal of Alloys and Compounds, 2018, 750, 117-123. | 5.5 | 28 |
| 129 | A GBH/LiBH4 coordination system with favorable dehydrogenation. Journal of Materials Chemistry, 2011, 21, 7138. | 6.7 | 27 |
| 130 | A synergistic strategy established by the combination of two H-enriched Bâ€“N based hydrides towards superior dehydrogenation. Journal of Materials Chemistry A, 2013, 1, 10155. | 10.3 | 26 |
| 131 | Phase equilibria of Ceâ€“Mgâ€“Ni ternary system at 673ÂK and hydrogen storage properties of selected alloy. International Journal of Hydrogen Energy, 2016, 41, 1725-1735. | 7.1 | 26 |
| 132 | Development and Investigation of a NASICONâ€Type Highâ€Voltage Cathode Material for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie, 2020, 132, 2470-2477. | 2.0 | 26 |
| 133 | Nano-confined multi-synthesis of a Liâ€“Mgâ€“Nâ€“H nanocomposite towards low-temperature hydrogen storage with stable reversibility. Journal of Materials Chemistry A, 2015, 3, 12646-12652. | 10.3 | 25 |
| 134 | Confining Ultrathin 2D Superlattices in Mesoporous Hollow Spheres Renders Ultrafast and Highâ€Capacity Naâ€Ion Storage. Advanced Energy Materials, 2020, 10, 2001033. | 19.5 | 25 |
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