# Jian Liu

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7542784/publications.pdf

Version: 2024-02-01

| 136 | 14,256 | 34076 52 | 19169 118 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 138 | 138 | 138 | 17399 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Graphitic carbon nitride materials: controllable synthesis and applications in fuel cells and photocatalysis. Energy and Environmental Science, 2012, 5, 6717. | 15.6 | 1,552 |
| 2 | Platinum single-atom and cluster catalysis of the hydrogen evolution reaction. Nature Communications, 2016, 7, 13638. | 5.8 | 1,521 |
| 3 | Nanoporous Graphitic-C<sub>3</sub>N<sub>4</sub>@Carbon Metal-Free Electrocatalysts for Highly Efficient Oxygen Reduction. Journal of the American Chemical Society, 2011, 133, 20116-20119. | 6.6 | 958 |
| 4 | Tailoring grain boundary structures and chemistry of Ni-rich layered cathodes for enhanced cycle stability of lithium-ion batteries. Nature Energy, 2018, 3, 600-605. | 19.8 | 613 |
| 5 | A facile soft-template synthesis of mesoporous polymeric and carbonaceous nanospheres. Nature Communications, 2013, 4, . | 5.8 | 555 |
| 6 | Nitrogen doping effects on the structure of graphene. Applied Surface Science, 2011, 257, 9193-9198. | 3.1 | 476 |
| 7 | Tin Oxide with Controlled Morphology and Crystallinity by Atomic Layer Deposition onto Graphene Nanosheets for Enhanced Lithium Storage. Advanced Functional Materials, 2012, 22, 1647-1654. | 7.8 | 384 |
| 8 | Mesoporous LiFePO<sub>4</sub>/C Nanocomposite Cathode Materials for High Power Lithium Ion Batteries with Superior Performance. Advanced Materials, 2010, 22, 4944-4948. | 11.1 | 380 |
| 9 | Atomic layer deposition of solid-state electrolyte coated cathode materials with superior high-voltage cycling behavior for lithium ion battery application. Energy and Environmental Science, 2014, 7, 768-778. | 15.6 | 363 |
| 10 | Highly stable Zn metal anodes enabled by atomic layer deposited Al<sub>2</sub>O<sub>3</sub> coating for aqueous zinc-ion batteries. Journal of Materials Chemistry A, 2020, 8, 7836-7846. | 5.2 | 323 |
| 11 | Tuning Zn2+ coordination environment to suppress dendrite formation for high-performance Zn-ion batteries. Nano Energy, 2021, 80, 105478. | 8.2 | 318 |
| 12 | Transitionâ€Metal Phosphides: Activity Origin, Energyâ€Related Electrocatalysis Applications, and Synthetic Strategies. Advanced Functional Materials, 2020, 30, 2004009. | 7.8 | 309 |
| 13 | Ultrafine Pt Nanoparticleâ€Decorated Pyriteâ€Type CoS<sub>2</sub> Nanosheet Arrays Coated on Carbon Cloth as a Bifunctional Electrode for Overall Water Splitting. Advanced Energy Materials, 2018, 8, 1800935. | 10.2 | 286 |
| 14 | Nitrogen-doped carbon nanotubes as cathode for lithiumâ€“air batteries. Electrochemistry Communications, 2011, 13, 668-672. | 2.3 | 261 |
| 15 | Extremely Stable Platinum Nanoparticles Encapsulated in a Zirconia Nanocage by Areaâ€Selective Atomic Layer Deposition for the Oxygen Reduction Reaction. Advanced Materials, 2015, 27, 277-281. | 11.1 | 238 |
| 16 | Significant impact on cathode performance of lithium-ion batteries by precisely controlled metal oxide nanocoatings via atomic layer deposition. Journal of Power Sources, 2014, 247, 57-69. | 4.0 | 212 |
| 17 | Highly compact TiO<sub>2</sub>layer for efficient hole-blocking in perovskite solar cells. Applied Physics Express, 2014, 7, 052301. | 1.1 | 199 |
| 18 | Highly stable Li 1.2 Mn 0.54 Co 0.13 Ni 0.13 O 2 enabled by novel atomic layer deposited AlPO 4 coating. Nano Energy, 2017, 34, 120-130. | 8.2 | 188 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Rational Design of Atomicâ€Layerâ€Deposited LiFePO<sub>4</sub> as a Highâ€Performance Cathode for Lithiumâ€Ion Batteries. Advanced Materials, 2014, 26, 6472-6477. | 11.1 | 161 |
| 20 | High concentration nitrogen doped carbon nanotube anodes with superior Li+ storage performance for lithium rechargeable battery application. Journal of Power Sources, 2012, 197, 238-245. | 4.0 | 158 |
| 21 | Safe and Durable High-Temperature Lithiumâ€“Sulfur Batteries via Molecular Layer Deposited Coating. Nano Letters, 2016, 16, 3545-3549. | 4.5 | 157 |
| 22 | Engineering interfacial layers to enable Zn metal anodes for aqueous zinc-ion batteries. Energy Storage Materials, 2021, 43, 317-336. | 9.5 | 154 |
| 23 | Facile controlled synthesis and growth mechanisms of flower-like and tubular MnO2 nanostructures by microwave-assisted hydrothermal method. Journal of Colloid and Interface Science, 2012, 369, 123-128. | 5.0 | 141 |
| 24 | Hierarchically porous LiFePO4/nitrogen-doped carbon nanotubes composite as a cathode for lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 7537. | 6.7 | 135 |
| 25 | Enhanced Performance of P2â€Na<sub>0.66</sub>(Mn<sub>0.54</sub>Co<sub>0.13</sub>Ni<sub>0.13</sub>)O<sub>2</sub> Cathode for Sodiumâ€Ion Batteries by Ultrathin Metal Oxide Coatings via Atomic Layer Deposition. Advanced Functional Materials, 2017, 27, 1701870. | 7.8 | 128 |
| 26 | Atomic Layer Deposition of Lithium Tantalate Solid-State Electrolytes. Journal of Physical Chemistry C, 2013, 117, 20260-20267. | 1.5 | 123 |
| 27 | Elegant design of electrode and electrode/electrolyte interface in lithium-ion batteries by atomic layer deposition. Nanotechnology, 2015, 26, 024001. | 1.3 | 123 |
| 28 | Chemical Structure of Nitrogen-Doped Graphene with Single Platinum Atoms and Atomic Clusters as a Platform for the PEMFC Electrode. Journal of Physical Chemistry C, 2014, 118, 3890-3900. | 1.5 | 121 |
| 29 | Atomic scale enhancement of metalâ€“support interactions between Pt and ZrC for highly stable electrocatalysts. Energy and Environmental Science, 2015, 8, 1450-1455. | 15.6 | 120 |
| 30 | Nanoscale Manipulation of Spinel Lithium Nickel Manganese Oxide Surface by Multisite Ti Occupation as Highâ€Performance Cathode. Advanced Materials, 2017, 29, 1703764. | 11.1 | 119 |
| 31 | Pseudocapacitive Co9S8/graphene electrode for high-rate hybrid supercapacitors. Carbon, 2019, 141, 134-142. | 5.4 | 110 |
| 32 | Atomic/molecular layer deposition for energy storage and conversion. Chemical Society Reviews, 2021, 50, 3889-3956. | 18.7 | 109 |
| 33 | Unravelling the Role of Electrochemically Active FePO<sub>4</sub> Coating by Atomic Layer Deposition for Increased Highâ€Voltage Stability of LiNi<sub>0.5</sub>Mn<sub>1.5</sub>O<sub>4</sub> Cathode Material. Advanced Science, 2015, 2, 1500022. | 5.6 | 108 |
| 34 | Structurally tailored graphene nanosheets as lithium ion battery anodes: an insight to yield exceptionally high lithium storage performance. Nanoscale, 2013, 5, 12607. | 2.8 | 107 |
| 35 | Tunable porous structure of metal organic framework derived carbon and the application in lithiumâ€“sulfur batteries. Journal of Power Sources, 2016, 302, 174-179. | 4.0 | 100 |
| 36 | Ultrathin atomic layer deposited ZrO2 coating to enhance the electrochemical performance of Li4Ti5O12 as an anode material. Electrochimica Acta, 2013, 93, 195-201. | 2.6 | 99 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Highly Stable Na<sub>2/3</sub>(Mn<sub>0.54</sub>Ni<sub>0.13</sub>Co<sub>0.13</sub>)O<sub>2</sub> Cathode Modified by Atomic Layer Deposition for Sodiumâ€ion Batteries. ChemSusChem, 2015, 8, 2537-2543. | 3.6 | 97 |
| 38 | Controllable synthesis of graphene-based titanium dioxide nanocomposites by atomic layer deposition. Nanotechnology, 2011, 22, 165602. | 1.3 | 90 |
| 39 | Atomic layer deposition of lithium phosphates as solid-state electrolytes for all-solid-state microbatteries. Nanotechnology, 2014, 25, 504007. | 1.3 | 87 |
| 40 | Suppressing Zn dendrite growth by molecular layer deposition to enable long-life and deeply rechargeable aqueous Zn anodes. Journal of Materials Chemistry A, 2020, 8, 22100-22110. | 5.2 | 82 |
| 41 | Atomic layer deposited coatings to significantly stabilize anodes for Li ion batteries: effects of coating thickness and the size of anode particles. Journal of Materials Chemistry A, 2014, 2, 2306. | 5.2 | 78 |
| 42 | Non-Aqueous Approach to Synthesize Amorphous/Crystalline Metal Oxide-Graphene Nanosheet Hybrid Composites. Journal of Physical Chemistry C, 2010, 114, 18330-18337. | 1.5 | 75 |
| 43 | Self-stacked nitrogen-doped carbon nanotubes as long-life air electrode for sodium-air batteries: Elucidating the evolution of discharge product morphology. Nano Energy, 2015, 12, 698-708. | 8.2 | 75 |
| 44 | Perspectives on the Active Sites and Catalyst Design for the Hydrogenation of Dimethyl Oxalate. ACS Catalysis, 2020, 10, 4465-4490. | 5.5 | 69 |
| 45 | Enabling High-Energy-Density Cathode for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 23094-23102. | 4.0 | 67 |
| 46 | Structural and interface design of hierarchical porous carbon derived from soybeans as anode materials for potassium-ion batteries. Journal of Power Sources, 2020, 463, 228172. | 4.0 | 67 |
| 47 | Size-dependent surface phase change of lithium iron phosphate during carbon coating. Nature Communications, 2014, 5, 3415. | 5.8 | 66 |
| 48 | Toward a Sodiumâ€“â€œAirâ€•Battery: Revealing the Critical Role of Humidity. Journal of Physical Chemistry C, 2015, 119, 13433-13441. | 1.5 | 66 |
| 49 | Microwave-assisted hydrothermal synthesis of nanostructured spinel Li4Ti5O12 as anode materials for lithium ion batteries. Electrochimica Acta, 2012, 63, 100-104. | 2.6 | 59 |
| 50 | Atomic Layer Deposited Lithium Silicates as Solid-State Electrolytes for All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2017, 9, 31786-31793. | 4.0 | 58 |
| 51 | Superior stable sulfur cathodes of Liâ€“S batteries enabled by molecular layer deposition. Chemical Communications, 2014, 50, 9757. | 2.2 | 56 |
| 52 | Controlled synthesis of Zirconium Oxide on graphene nanosheets by atomic layer deposition and its growth mechanism. Carbon, 2013, 52, 74-82. | 5.4 | 55 |
| 53 | Atomic layer deposited Li4Ti5O12 on nitrogen-doped carbon nanotubes. RSC Advances, 2013, 3, 7285. | 1.7 | 54 |
| 54 | High stability and activity of Pt electrocatalyst on atomic layer deposited metal oxide/nitrogen-doped graphene hybrid support. International Journal of Hydrogen Energy, 2014, 39, 15967-15974. | 3.8 | 51 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Enhanced reversibility and electrochemical window of Zn-ion batteries with an acetonitrile/water-in-salt electrolyte. Chemical Communications, 2021, 57, 1246-1249. | 2.2 | 50 |
| 56 | Nitrogen-doped carbon nanotubes with tunable structure and high yield produced by ultrasonic spray pyrolysis. Applied Surface Science, 2011, 257, 7837-7844. | 3.1 | 46 |
| 57 | Modulating the Electronic Metalâ€Support Interactions in Singleâ€Atom Pt<sub>1</sub>â^'CuO Catalyst for Boosting Acetone Oxidation. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 46 |
| 58 | Formation of size-dependent and conductive phase on lithium iron phosphate during carbon coating. Nature Communications, 2018, 9, 929. | 5.8 | 45 |
| 59 | Atomic layer deposition of amorphous iron phosphates on carbon nanotubes as cathode materials for lithium-ion batteries. Electrochimica Acta, 2015, 162, 275-281. | 2.6 | 44 |
| 60 | Improving LiNi0.9Co0.08Mn0.02O2â€™s cyclic stability via abating mechanical damages. Energy Storage Materials, 2020, 28, 1-9. | 9.5 | 44 |
| 61 | Potassium-ion battery cathodes: Past, present, and prospects. Journal of Power Sources, 2021, 484, 229307. | 4.0 | 43 |
| 62 | Synthesis and characterization of phosphorusâ€“nitrogen doped multiwalled carbon nanotubes. Carbon, 2011, 49, 5014-5021. | 5.4 | 42 |
| 63 | Benchmarking Three Ruthenium Phosphide Phases for Electrocatalysis of the Hydrogen Evolution Reaction: Experimental and Theoretical Insights. Chemistry - A European Journal, 2019, 25, 7826-7830. | 1.7 | 42 |
| 64 | Emerging applications of spark plasma sintering in all solid-state lithium-ion batteries and beyond. Journal of Power Sources, 2018, 391, 10-25. | 4.0 | 40 |
| 65 | Eutectic Electrolytes Chemistry for Rechargeable Zn Batteries. Small, 2022, 18, e2200550. | 5.2 | 40 |
| 66 | Hierarchically porous carbon from waste coffee grounds for high-performance Liâ€“Se batteries. Electrochimica Acta, 2019, 325, 134931. | 2.6 | 39 |
| 67 | Materials design and fundamental understanding of tellurium-based electrochemistry for rechargeable batteries. Energy Storage Materials, 2021, 40, 166-188. | 9.5 | 39 |
| 68 | Nanoscale stabilization of Liâ€“sulfur batteries by atomic layer deposited Al2O3. RSC Advances, 2014, 4, 27126. | 1.7 | 38 |
| 69 | The roles of electrolyte chemistry in hard carbon anode for potassium-ion batteries. Chemical Engineering Journal, 2022, 427, 130972. | 6.6 | 36 |
| 70 | Lignin-derived hard carbon anode for potassium-ion batteries: Interplay among lignin molecular weight, material structures, and storage mechanisms. Chemical Engineering Journal, 2022, 427, 131547. | 6.6 | 36 |
| 71 | Crystallinity-Controlled Synthesis of Zirconium Oxide Thin Films on Nitrogen-Doped Carbon Nanotubes by Atomic Layer Deposition. Journal of Physical Chemistry C, 2012, 116, 14656-14664. | 1.5 | 34 |
| 72 | Atomic Layer Deposited Nonâ€Noble Metal Oxide Catalyst for Sodiumâ€“Air Batteries: Tuning the Morphologies and Compositions of Discharge Product. Advanced Functional Materials, 2017, 27, 1606662. | 7.8 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Atomically precise growth of sodium titanates as anode materials for high-rate and ultralong cycle-life sodium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 24281-24288. | 5.2 | 32 |
| 74 | Visualizing the Oxidation Mechanism and Morphological Evolution of the Cubicâ€Shaped Superoxide Discharge Product in Naâ€“Air Batteries. Advanced Functional Materials, 2019, 29, 1808332. | 7.8 | 30 |
| 75 | A durable lithiumâ€“tellurium battery: Effects of carbon pore structure and tellurium content. Carbon, 2021, 173, 11-21. | 5.4 | 30 |
| 76 | Pseudocapacitive Crystalline MnCo<sub>2</sub>O<sub>4.5</sub> and Amorphous MnCo<sub>2</sub>S<sub>4</sub> Core/Shell Heterostructure with Graphene for High-Performance K-Ion Hybrid Capacitors. ACS Applied Materials & Interfaces, 2020, 12, 54773-54781. | 4.0 | 29 |
| 77 | The effect of rapid solidification on the microstructure and hydrogen storage properties of V35Ti25Cr40 hydrogen storage alloy. International Journal of Hydrogen Energy, 2009, 34, 8094-8100. | 3.8 | 28 |
| 78 | Tracking the Effect of Sodium Insertion/Extraction in Amorphous and Anatase TiO<sub>2</sub> Nanotubes. Journal of Physical Chemistry C, 2017, 121, 11773-11782. | 1.5 | 28 |
| 79 | Activation-free synthesis of microporous carbon from polyvinylidene fluoride as host materials for lithium-selenium batteries. Journal of Power Sources, 2019, 438, 227059. | 4.0 | 27 |
| 80 | Study on the hydrogen desorption mechanism of a Mgâ€“V composite prepared by SPS. International Journal of Hydrogen Energy, 2012, 37, 984-989. | 3.8 | 26 |
| 81 | Atomic layer deposited aluminium phosphate thin films on N-doped CNTs. RSC Advances, 2013, 3, 4492. | 1.7 | 26 |
| 82 | Titanium Dioxide/Lithium Phosphate Nanocomposite Derived from Atomic Layer Deposition as a Highâ€Performance Anode for Lithium Ion Batteries. Advanced Materials Interfaces, 2016, 3, 1600369. | 1.9 | 26 |
| 83 | Origin of phase inhomogeneity in lithium iron phosphate during carbon coating. Nano Energy, 2018, 45, 52-60. | 8.2 | 26 |
| 84 | Intercalation-pseudocapacitance hybrid anode for high rate and energy lithium-ion capacitors. Journal of Energy Chemistry, 2021, 55, 459-467. | 7.1 | 26 |
| 85 | High-temperature treatment to engineer the single-atom Pt coordination environment towards highly efficient hydrogen evolution. Journal of Energy Chemistry, 2021, 59, 212-219. | 7.1 | 26 |
| 86 | High-performance sodiumâ€“selenium batteries enabled by microporous carbon/selenium cathode and fluoroethylene carbonate electrolyte additive. Journal of Power Sources, 2020, 453, 227855. | 4.0 | 25 |
| 87 | Improving hydrogen storage properties of Laves phase related BCC solid solution alloy by SPS preparation method. International Journal of Hydrogen Energy, 2009, 34, 8597-8602. | 3.8 | 24 |
| 88 | Toward 3D Solid-State Batteries via Atomic Layer Deposition Approach. Frontiers in Energy Research, 2018, 6, . | 1.2 | 23 |
| 89 | Role of graphene in enhancing the mechanical properties of TiO<sub>2</sub>/graphene heterostructures. Nanoscale, 2017, 9, 11678-11684. | 2.8 | 22 |
| 90 | Atomic Layer Deposition of Hierarchical CNTs@FePO<sub>4</sub> Architecture as a 3D Electrode for Lithiumâ€Ion and Sodiumâ€Ion Batteries. Advanced Materials Interfaces, 2016, 3, 1600468. | 1.9 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Template-assisted molten-salt synthesis of hierarchical lithium-rich layered oxide nanowires as high-rate and long-cycling cathode materials. Electrochimica Acta, 2020, 333, 135558. | 2.6 | 20 |
| 92 | Materials and Structure Design for Solid-State Zinc-Ion Batteries: A Mini-Review. Frontiers in Energy Research, 2021, 8, . | 1.2 | 19 |
| 93 | Minimizing Polysulfide Shuttle Effect in Lithium-Ion Sulfur Batteries by Anode Surface Passivation. ACS Applied Materials & Interfaces, 2018, 10, 21965-21972. | 4.0 | 18 |
| 94 | Low temperature induced highly stable Zn metal anodes for aqueous zinc-ion batteries. Chemical Communications, 2021, 57, 11477-11480. | 2.2 | 18 |
| 95 | Atomic layer deposited aluminum oxynitride coating for high-performance Si anode in lithium-ion batteries. Applied Surface Science, 2022, 578, 151982. | 3.1 | 18 |
| 96 | Polyacrylonitrileâ€Reinforced Composite Gel Polymer Electrolytes for Stable Potassium Metal Anodes. Small, 2022, 18, e2107186. | 5.2 | 18 |
| 97 | Hydrogen storage performance of Mg-based composites prepared by spark plasma sintering. Journal of Alloys and Compounds, 2009, 486, 338-342. | 2.8 | 17 |
| 98 | Enhanced Potassium Storage Performance for K-Te Batteries via Electrode Design and Electrolyte Salt Chemistry. ACS Applied Materials & Interfaces, 2021, 13, 16345-16354. | 4.0 | 17 |
| 99 | A novel approach in controlling the conductivity of thin films using molecular layer deposition. Applied Surface Science, 2015, 357, 1319-1324. | 3.1 | 15 |
| 100 | A facile and low-cost Al<sub>2</sub>O<sub>3</sub> coating as an artificial solid electrolyte interphase layer on graphite/silicon composites for lithium-ion batteries. Nanotechnology, 2021, 32, 144001. | 1.3 | 15 |
| 101 | Spark Plasma Sintering of Lithium Aluminum Germanium Phosphate Solid Electrolyte and its Electrochemical Properties. Nanomaterials, 2019, 9, 1086. | 1.9 | 14 |
| 102 | Deciphering pitting behavior of lithium metal anodes in lithium sulfur batteries. Journal of Energy Chemistry, 2020, 49, 257-261. | 7.1 | 14 |
| 103 | Orientation and Ordering of Organic and Hybrid Inorganicâ€“Organic Polyurea Films Using Molecular Layer Deposition. Journal of Physical Chemistry C, 2017, 121, 11757-11764. | 1.5 | 13 |
| 104 | Artificial Cathode-Electrolyte Interphase towards High-Performance Lithium-Ion Batteries: A Case Study of Î²-AgVO3. Nanomaterials, 2021, 11, 569. | 1.9 | 12 |
| 105 | The role of carbon pore structure in tellurium/carbon cathodes for lithium-tellurium batteries. Electrochimica Acta, 2021, 388, 138621. | 2.6 | 12 |
| 106 | Morphology- and lattice stability-dependent performance of nanostructured Li4Ti5O12 probed by in situ high-pressure Raman spectroscopy and synchrotron X-ray diffraction. CrystEngComm, 2016, 18, 736-743. | 1.3 | 11 |
| 107 | Nanoscale Al2O3 coating to stabilize selenium cathode for sodiumâ€“selenium batteries. Journal of Materials Research, 2020, 35, 747-755. | 1.2 | 11 |
| 108 | Protic ethers as highly efficient hydrogen-bond regulators for aqueous eutectic electrolytes. Journal of Materials Chemistry A, 2022, 10, 13711-13718. | 5.2 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Surface modification of nitrogen-doped carbon nanotubes by ozone via atomic layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, . | 0.9 | 9 |
| 110 | Durable Lithium/Selenium Batteries Enabled by the Integration of MOF-Derived Porous Carbon and Alucone Coating. Nanomaterials, 2021, 11, 1976. | 1.9 | 9 |
| 111 | Quasi-solid-state lithium-tellurium batteries based on flexible gel polymer electrolytes. Journal of Colloid and Interface Science, 2022, 605, 547-555. | 5.0 | 9 |
| 112 | 3D Nano-heterostructure of ZnMn<sub>2</sub>O<sub>4</sub>@Graphene-Carbon Microtubes for High-Performance Li-Ion Capacitors. ACS Applied Materials & Interfaces, 2021, 13, 52542-52548. | 4.0 | 9 |
| 113 | Characteristics of interface between solid electrolyte and electrode in all-solid-state batteries prepared by spark plasma sintering. Journal of Power Sources, 2022, 521, 230964. | 4.0 | 9 |
| 114 | Molecular-layer-deposited tincone: a new hybrid organicâ€“inorganic anode material for three-dimensional microbatteries. Chemical Communications, 2020, 56, 13221-13224. | 2.2 | 8 |
| 115 | Water/acetonitrile hybrid electrolyte enables using smaller ions for achieving superior energy density in carbon-based supercapacitors. Journal of Power Sources, 2021, 498, 229905. | 4.0 | 8 |
| 116 | The role of spark plasma sintering on the improvement of hydrogen storage properties of Mg-based composites. International Journal of Hydrogen Energy, 2010, 35, 8080-8087. | 3.8 | 7 |
| 117 | Highâ€Performance Potassiumâ€Tellurium Batteries Stabilized by Interface Engineering. Small, 2022, 18, e2200085. | 5.2 | 7 |
| 118 | Hydrogen storage properties of Mgâ€“50vol.%V7.4Zr7.4Ti7.4Ni composite prepared by spark plasma sintering. International Journal of Hydrogen Energy, 2009, 34, 4365-4370. | 3.8 | 6 |
| 119 | Microstructure and ionic conductivity of Li1.5Al0.5Ge1.5(PO4)3 solid electrolyte prepared by spark plasma sintering. Ceramics International, 2020, 46, 7634-7641. | 2.3 | 6 |
| 120 | Waste to Value-Added Product: Developing Electrically Conductive Nanocomposites Using a Non-Recyclable Plastic Waste Containing Vulcanized Rubber. Polymers, 2021, 13, 2427. | 2.0 | 5 |
| 121 | A Stable Lithium-ion Selenium Batteries Enabled by Microporous Carbon/Se and Fluoroethylene Carbonate Additive. ECS Transactions, 2020, 97, 279-288. | 0.3 | 4 |
| 122 | New Hybrid Organic-Inorganic Thin Films by Molecular Layer Deposition for Rechargeable Batteries. Frontiers in Energy Research, 2021, 9, . | 1.2 | 4 |
| 123 | Modulating the Electronic Metalâ€Support Interactions in Singleâ€Atom Pt<sub>1</sub>â^'CuO Catalyst for Boosting Acetone Oxidation. Angewandte Chemie, 2022, 134, . | 1.6 | 4 |
| 124 | Investigation of amorphous to crystalline phase transition of sodium titanate by X-ray absorption spectroscopy and scanning transmission X-ray microscopy. Canadian Journal of Chemistry, 2017, 95, 1163-1169. | 0.6 | 2 |
| 125 | Improving the Stability of Lithium Aluminum Germanium Phosphate with Lithium Metal by Interface Engineering. Nanomaterials, 2022, 12, 1912. | 1.9 | 2 |
| 126 | Platinum single-atom and cluster catalysis of the hydrogen evolution reaction. , 0, . | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Editorial: Energy Storage Systems Beyond Li-Ion Intercalation Chemistry. Frontiers in Energy Research, 2021, 9, . | 1.2 | 0 |
| 128 | Electrode and Interface Design for High-Performance Lithium/Sodium-Selenium Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 470-470. | 0.0 | 0 |
| 129 | Tincone-New Hybrid Organic-Inorganic Anode Material for High Performance Li-Ion Battery. ECS Meeting Abstracts, 2020, MA2020-02, 374-374. | 0.0 | 0 |
| 130 | Investigation of Cathode Structure and Electrolyte Chemistry for Emerging Metal-Tellurium Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 567-567. | 0.0 | 0 |
| 131 | â€œTri-Solvent-in-Saltâ€•Electrolytes for High-Performance Supercapacitors. ECS Meeting Abstracts, 2022, MA2022-01, 1412-1412. | 0.0 | 0 |
| 132 | Synthesizing Microporous Carbon from Soybean and Use It to Develop Cathode Material for High Performance Lithium-Selenium Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 337-337. | 0.0 | 0 |
| 133 | An in-Depth Study of How Zinc Metal Surface Morphology Determines Aqueous Zinc-Ion Battery Stability. ECS Meeting Abstracts, 2022, MA2022-01, 14-14. | 0.0 | 0 |
| 134 | NiO Modified CN Film As Photoanodes for Photoelectrochemical Water Oxidation. ECS Meeting Abstracts, 2022, MA2022-01, 1592-1592. | 0.0 | 0 |
| 135 | Optimization of Loading Content of Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub>-Hard Carbon Composite Anode for the Fast Charging Li-Ion Battery. ECS Meeting Abstracts, 2022, MA2022-01, 226-226. | 0.0 | 0 |
| 136 | Investigation and Design of Soybean-Derived Carbon Anode Materials for Potassium-Ion Battery Applications. ECS Meeting Abstracts, 2022, MA2022-01, 535-535. | 0.0 | 0 |