# Ju-hsiang Cheng

List of Publications by Year
in descending order

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| 43 | 4,229 | 212478 | 286692 |
|---|---|---|---|
| papers | citations | 28 h-index | 43 g-index |

| 46 | 46 | 46 | 9152 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Origin of shuttle-free sulfurized polyacrylonitrile in lithium-sulfur batteries. Journal of Power Sources, 2021, 492, 229508. | 4.0 | 33 |
| 2 | Revealing the effect of polyethylenimine on zinc metal anodes in alkaline electrolyte solution for zincâ€“air batteries: mechanism studies of dendrite suppression and corrosion inhibition. Journal of Materials Chemistry A, 2020, 8, 20637-20649. | 5.2 | 39 |
| 3 | Scalable Synthesis of Micron Size Crystals of CH 3 NH 3 PbI 3 at Room Temperature in Acetonitrile via Rapid Reactive Crystallization. ChemistrySelect, 2020, 5, 3266-3271. | 0.7 | 1 |
| 4 | Enabling Thin and Flexible Solid-State Composite Electrolytes by the Scalable Solution Process. ACS Applied Energy Materials, 2019, 2, 6542-6550. | 2.5 | 96 |
| 5 | Revealing Nanoscale Solidâ€“Solid Interfacial Phenomena for Long-Life and High-Energy All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2019, 11, 43138-43145. | 4.0 | 122 |
| 6 | Nucleation and Growth Mechanism of Lithium Metal Electroplating. Journal of the American Chemical Society, 2019, 141, 18612-18623. | 6.6 | 144 |
| 7 | Surface Area of Lithium-Metal Electrodes Measured by Argon Adsorption. Journal of the Electrochemical Society, 2019, 166, A3250-A3253. | 1.3 | 16 |
| 8 | Polyethylene oxide film coating enhances lithium cycling efficiency of an anode-free lithium-metal battery. Nanoscale, 2018, 10, 6125-6138. | 2.8 | 215 |
| 9 | Designed Synergetic Effect of Electrolyte Additives to Improve Interfacial Chemistry of MCMB Electrode in Propylene Carbonate-Based Electrolyte for Enhanced Low and Room Temperature Performance. ACS Applied Materials & Interfaces, 2018, 10, 25252-25262. | 4.0 | 31 |
| 10 | Controllable embedding of sulfur in high surface area nitrogen doped three dimensional reduced graphene oxide by solution drop impregnation method for high performance lithium-sulfur batteries. Journal of Power Sources, 2017, 353, 298-311. | 4.0 | 71 |
| 11 | Revealing the mitigation of intrinsic structure transformation and oxygen evolution in a layered Li1.2Ni0.2Mn0.6O2 cathode using restricted charging protocols. Journal of Power Sources, 2017, 359, 539-548. | 4.0 | 38 |
| 12 | Visualization of Lithium Plating and Stripping via in Operando Transmission X-ray Microscopy. Journal of Physical Chemistry C, 2017, 121, 7761-7766. | 1.5 | 123 |
| 13 | Capacity retention of lithium sulfur batteries enhanced with nano-sized TiO<sub>2</sub>-embedded polyethylene oxide. Journal of Materials Chemistry A, 2017, 5, 6708-6715. | 5.2 | 66 |
| 14 | Improved Interfacial Properties of MCMB Electrode by 1-(Trimethylsilyl)imidazole as New Electrolyte Additive To Suppress LiPF<sub>6</sub>Decomposition. ACS Applied Materials & Interfaces, 2017, 9, 2410-2420. | 4.0 | 72 |
| 15 | Dualâ€Confined Sulfur in Hybrid Nanostructured Materials for Enhancement of Lithiumâ€Sulfur Battery Cathode Capacity Retention. ChemElectroChem, 2017, 4, 636-647. | 1.7 | 31 |
| 16 | Identification of the physical origin behind disorder, heterogeneity, and reconstruction and their correlation with the photoluminescence lifetime in hybrid perovskite thin films. Journal of Materials Chemistry A, 2017, 5, 21002-21015. | 5.2 | 10 |
| 17 | Hybrid nanostructured microporous carbon-mesoporous carbon doped titanium dioxide/sulfur composite positive electrode materials for rechargeable lithium-sulfur batteries. Journal of Power Sources, 2016, 324, 239-252. | 4.0 | 57 |
| 18 | Resilient Yolkâ€“Shell Siliconâ€“Reduced Graphene Oxide/Amorphous Carbon Anode Material from a Synergistic Dualâ€Coating Process for Lithiumâ€Ion Batteries. ChemElectroChem, 2016, 3, 1446-1454. | 1.7 | 25 |

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|---|---|---|---|
| 19 | Enhancement of Electrochemical Properties by Freeze-dried Graphene Oxide via Glucose-assisted Reduction. Electrochimica Acta, 2016, 197, 146-151. | 2.6 | 16 |
| 20 | Organometal halide perovskite solar cells: degradation and stability. Energy and Environmental Science, 2016, 9, 323-356. | 15.6 | 1,457 |
| 21 | O3â€“Na<sub>x</sub>Mn<sub>1/3</sub>Fe<sub>2/3</sub>O<sub>2</sub>as a positive electrode material for Na-ion batteries: structural evolutions and redox mechanisms upon Na<sup>+</sup>(de)intercalation. Journal of Materials Chemistry A, 2015, 3, 10976-10989. | 5.2 | 113 |
| 22 | Stabilizing Nanosized Si Anodes with the Synergetic Usage of Atomic Layer Deposition and Electrolyte Additives for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 13801-13807. | 4.0 | 39 |
| 23 | An unexpected large capacity of ultrafine manganese oxide as a sodium-ion battery anode. Nanoscale, 2015, 7, 20075-20081. | 2.8 | 38 |
| 24 | Solid-state polymer nanocomposite electrolyte of TiO2/PEO/NaClO4 for sodium ion batteries. Journal of Power Sources, 2015, 278, 375-381. | 4.0 | 249 |
| 25 | Hierarchical Copperâ€Decorated Nickel Nanocatalysts Supported on La<sub>2</sub>O<sub>3</sub> for Lowâ€Temperature Steam Reforming of Ethanol. ChemSusChem, 2014, 7, 570-576. | 3.6 | 18 |
| 26 | Understanding the Role of Ni in Stabilizing the Lithium-Rich High-Capacity Cathode Material Li[NixLi(1â€“2x)/3Mn(2â€“x)/3]O2(0 â‰¤xâ‰¤ 0.5). Chemistry of Materials, 2014, 26, 6919-6927. | 3.2 | 72 |
| 27 | Simultaneous Reduction of Co<sup>3+</sup> and Mn<sup>4+</sup> in P2-Na<sub>2/3</sub>Co<sub>2/3</sub>Mn<sub>1/3</sub>O<sub>2</sub> As Evidenced by X-ray Absorption Spectroscopy during Electrochemical Sodium Intercalation. Chemistry of Materials, 2014, 26, 1219-1225. | 3.2 | 94 |
| 28 | Effect of Mg doping on the local structure of LiMgyCo1âˆ’yO2 cathode material investigated by X-ray absorption spectroscopy. Journal of Power Sources, 2014, 252, 292-297. | 4.0 | 29 |
| 29 | Mechanistic Basis of Enhanced Capacity Retention Found with Novel Sulfate-Based Additive in High-Voltage Li-Ion Batteries. Journal of Physical Chemistry C, 2013, 117, 22619-22626. | 1.5 | 37 |
| 30 | DFT+U Calculations and XAS Study: Further Confirmation of the Presence of CoO5 Square-Based Pyramids with IS-Co3+ in Li-Overstoichiometric LiCoO2. Journal of Physical Chemistry C, 2013, 117, 26493-26500. | 1.5 | 17 |
| 31 | Transport Properties of Nanoâ€sized TiO<sub>2</sub>â€based Composite Polymer Electrolyte Prepared by a Green Method. Journal of the Chinese Chemical Society, 2012, 59, 1250-1257. | 0.8 | 12 |
| 32 | Advanced nanoelectrocatalyst for methanol oxidation and oxygen reduction reaction, fabricated as one-dimensional pt nanowires on nanostructured robust Ti0.7Ru0.3O2 support. Nano Energy, 2012, 1, 687-695. | 8.2 | 40 |
| 33 | Defect-free graphene metal oxide composites: formed by lithium mediated exfoliation of graphite. Journal of Materials Chemistry, 2012, 22, 14722. | 6.7 | 8 |
| 34 | Combined effects of ceramic filler size and ethylene oxide length on the ionic transport properties of solid polymer electrolyte derivatives of PEGMEMA. Journal of Solid State Electrochemistry, 2012, 16, 157-163. | 1.2 | 10 |
| 35 | Electronic, Structural, and Electrochemical Properties of LiNi<sub>x</sub>Cu<sub>y</sub>Mn<sub>2â€“xâ€“y</sub>O<sub>4</sub> (0) Tj ETQq1 1 0.784314 r<br>23, 2832-2841. | 3.2 | 122 |
| 36 | Facile synthesis of SnO2-embedded carbon nanomaterials via glucose-mediated oxidation of Sn particles. Journal of Materials Chemistry, 2011, 21, 10705. | 6.7 | 11 |

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|---|---|---|---|
| 37 | The P2-Na2/3Co2/3Mn1/3O2 phase: structure, physical properties and electrochemical behavior as positive electrode in sodium battery. Dalton Transactions, 2011, 40, 9306. | 1.6 | 225 |
| 38 | Controlled Synthesis of CdSe Quantum Dots by a Microwaveâ€Enhanced Process: A Green Approach for Mass Production. Chemistry - A European Journal, 2011, 17, 5737-5744. | 1.7 | 44 |
| 39 | Preparation of nano-sized Cu from a rod-like CuFe2O4: Suitable for high performance catalytic applications. Applied Catalysis B: Environmental, 2011, 106, 650-656. | 10.8 | 53 |
| 40 | An investigation of the salt dissociation effects on solid electrolyte interface (SEI) formation using linear carbonate-based electrolytes in lithium ion batteries. Solid State Ionics, 2010, 180, 1660-1666. | 1.3 | 19 |
| 41 | Direct growth of high-rate capability and high capacity copper sulfide nanowire array cathodes for lithium-ion batteries. Journal of Materials Chemistry, 2010, 20, 6638. | 6.7 | 174 |
| 42 | The network gel polymer electrolyte based on poly(acrylate-co-imide) and its transport properties in lithium ion batteries. Journal of Solid State Electrochemistry, 2009, 13, 1425-1431. | 1.2 | 10 |
| 43 | Oriented growth of large-scale nickel sulfide nanowire arrays via a general solution route for lithium-ion battery cathode applications. Journal of Materials Chemistry, 2009, 19, 7277. | 6.7 | 132 |