

# Ju-hsiang Cheng

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8526759/publications.pdf>

Version: 2024-02-01

43  
papers

4,229  
citations

186265  
28  
h-index

254184  
43  
g-index

46  
all docs

46  
docs citations

46  
times ranked

7763  
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of shuttle-free sulfurized polyacrylonitrile in lithium-sulfur batteries. Journal of Power Sources, 2021, 492, 229508.	7.8	33
2	Revealing the effect of polyethylenimine on zinc metal anodes in alkaline electrolyte solution for zinc-air batteries: mechanism studies of dendrite suppression and corrosion inhibition. Journal of Materials Chemistry A, 2020, 8, 20637-20649.	10.3	39
3	Scalable Synthesis of Micron Size Crystals of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> at Room Temperature in Acetonitrile via Rapid Reactive Crystallization. ChemistrySelect, 2020, 5, 3266-3271.	1.5	1
4	Enabling Thin and Flexible Solid-State Composite Electrolytes by the Scalable Solution Process. ACS Applied Energy Materials, 2019, 2, 6542-6550.	5.1	96
5	Revealing Nanoscale Solid-Solid Interfacial Phenomena for Long-Life and High-Energy All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2019, 11, 43138-43145.	8.0	122
6	Nucleation and Growth Mechanism of Lithium Metal Electroplating. Journal of the American Chemical Society, 2019, 141, 18612-18623.	13.7	144
7	Surface Area of Lithium-Metal Electrodes Measured by Argon Adsorption. Journal of the Electrochemical Society, 2019, 166, A3250-A3253.	2.9	16
8	Polyethylene oxide film coating enhances lithium cycling efficiency of an anode-free lithium-metal battery. Nanoscale, 2018, 10, 6125-6138.	5.6	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.	8.0	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.	7.8	71
11	Revealing the mitigation of intrinsic structure transformation and oxygen evolution in a layered Li <sub>1.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> cathode using restricted charging protocols. Journal of Power Sources, 2017, 359, 539-548.	7.8	38
12	Visualization of Lithium Plating and Stripping via <i>in Operando</i> Transmission X-ray Microscopy. Journal of Physical Chemistry C, 2017, 121, 7761-7766.	3.1	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.	10.3	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.	8.0	72
15	Dual-Confined Sulfur in Hybrid Nanostructured Materials for Enhancement of Lithium-Sulfur Battery Cathode Capacity Retention. ChemElectroChem, 2017, 4, 636-647.	3.4	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.	10.3	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.	7.8	57
18	Resilient Yolk-Shell Silicon-Reduced Graphene Oxide/Amorphous Carbon Anode Material from a Synergistic Dual-Coating Process for Lithium-Ion Batteries. ChemElectroChem, 2016, 3, 1446-1454.	3.4	25

#	ARTICLE	IF	CITATIONS
19	Enhancement of Electrochemical Properties by Freeze-dried Graphene Oxide via Glucose-assisted Reduction. <i>Electrochimica Acta</i> , 2016, 197, 146-151.	5.2	16
20	Organometal halide perovskite solar cells: degradation and stability. <i>Energy and Environmental Science</i> , 2016, 9, 323-356.	30.8	1,457
21	$\text{O}_3\text{Na}_x\text{Mn}_{1/3}\text{Fe}_{2/3}\text{O}_2$ as a positive electrode material for Na-ion batteries: structural evolutions and redox mechanisms upon $\text{Na}^+$ intercalation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10976-10989.	10.3	113
22	Stabilizing Nanosized Si Anodes with the Synergetic Usage of Atomic Layer Deposition and Electrolyte Additives for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 13801-13807.	8.0	39
23	An unexpected large capacity of ultrafine manganese oxide as a sodium-ion battery anode. <i>Nanoscale</i> , 2015, 7, 20075-20081.	5.6	38
24	Solid-state polymer nanocomposite electrolyte of $\text{TiO}_2/\text{PEO}/\text{NaClO}_4$ for sodium ion batteries. <i>Journal of Power Sources</i> , 2015, 278, 375-381.	7.8	249
25	Hierarchical Copper-Decorated Nickel Nanocatalysts Supported on $\text{La}_2\text{O}_3$ for Low-Temperature Steam Reforming of Ethanol. <i>ChemSusChem</i> , 2014, 7, 570-576.	6.8	18
26	Understanding the Role of Ni in Stabilizing the Lithium-Rich High-Capacity Cathode Material $\text{Li}[\text{Ni}_x\text{Li}_{1-2x}/3\text{Mn}_{2-2x}/3]\text{O}_2$ ( $0 \leq x \leq 0.5$ ). <i>Chemistry of Materials</i> , 2014, 26, 6919-6927.	6.7	72
27	Simultaneous Reduction of $\text{Co}^{3+}$ and $\text{Mn}^{4+}$ in $\text{P}_2\text{Na}_{2/3}\text{Co}_{2/3}\text{Mn}_{1/3}\text{O}_2$ As Evidenced by X-ray Absorption Spectroscopy during Electrochemical Sodium Intercalation. <i>Chemistry of Materials</i> , 2014, 26, 1219-1225.	6.7	94
28	Effect of Mg doping on the local structure of $\text{LiMg}_y\text{Co}_{1-y}\text{O}_2$ cathode material investigated by X-ray absorption spectroscopy. <i>Journal of Power Sources</i> , 2014, 252, 292-297.	7.8	29
29	Mechanistic Basis of Enhanced Capacity Retention Found with Novel Sulfate-Based Additive in High-Voltage Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22619-22626.	3.1	37
30	DFT+U Calculations and XAS Study: Further Confirmation of the Presence of $\text{CoO}_5$ Square-Based Pyramids with $\text{IS-Co}^{3+}$ in Li-Overstoichiometric $\text{LiCoO}_2$ . <i>Journal of Physical Chemistry C</i> , 2013, 117, 26493-26500.	3.1	17
31	Transport Properties of Nano-sized $\text{TiO}_2$ -based Composite Polymer Electrolyte Prepared by a Green Method. <i>Journal of the Chinese Chemical Society</i> , 2012, 59, 1250-1257.	1.4	12
32	Advanced nanoelectrocatalyst for methanol oxidation and oxygen reduction reaction, fabricated as one-dimensional Pt nanowires on nanostructured robust $\text{TiO}_2/\text{RuO}_2$ support. <i>Nano Energy</i> , 2012, 1, 687-695.	16.0	40
33	Defect-free graphene metal oxide composites: formed by lithium mediated exfoliation of graphite. <i>Journal of Materials Chemistry</i> , 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. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 157-163.	2.5	10
35	Electronic, Structural, and Electrochemical Properties of $\text{LiNi}_x\text{Cu}_y\text{Mn}_{2-x-y}\text{O}_4$ ( $0 \leq x+y \leq 1$ ). <i>Journal of Materials Chemistry</i> , 2011, 21, 2832-2841.	6.7	122
36	Facile synthesis of $\text{SnO}_2$ -embedded carbon nanomaterials via glucose-mediated oxidation of Sn particles. <i>Journal of Materials Chemistry</i> , 2011, 21, 10705.	6.7	11

#	ARTICLE	IF	CITATIONS
37	The P2-Na <sub>2</sub> /3Co <sub>2</sub> /3Mn <sub>1</sub> /3O <sub>2</sub> phase: structure, physical properties and electrochemical behavior as positive electrode in sodium battery. Dalton Transactions, 2011, 40, 9306.	3.3	225
38	Controlled Synthesis of CdSe Quantum Dots by a Microwave-Enhanced Process: A Green Approach for Mass Production. Chemistry - A European Journal, 2011, 17, 5737-5744.	3.3	44
39	Preparation of nano-sized Cu from a rod-like CuFe <sub>2</sub> O <sub>4</sub> : Suitable for high performance catalytic applications. Applied Catalysis B: Environmental, 2011, 106, 650-656.	20.2	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.	2.7	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.	2.5	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