Jaecheol Choi

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1857654/publications.pdf Version: 2024-02-01



INECHEOL CHOL

#	Article	IF	CITATIONS
1	Competition between metal-catalysed electroreduction of dinitrogen, protons, and nitrogen oxides: a DFT perspective. Catalysis Science and Technology, 2022, 12, 2856-2864.	4.1	8
2	Reassessment of the catalytic activity of bismuth for aqueous nitrogen electroreduction. Nature Catalysis, 2022, 5, 382-384.	34.4	14
3	Nitrogen reduction to ammonia at high efficiency and rates based on a phosphonium proton shuttle. Science, 2021, 372, 1187-1191.	12.6	289
4	Synergistic Amplification of Oxygen Generation in (Photo)Catalytic Water Splitting by a PEDOT/Nano o 3 O 4 /MWCNT Thin Film Composite. ChemCatChem, 2020, 12, 1580-1584.	3.7	6
5	Mechanical robustness of composite electrode for lithium ion battery: Insight into entanglement & crystallinity of polymeric binder. Electrochimica Acta, 2020, 332, 135471.	5.2	23
6	Liquefied Sunshine: Transforming Renewables into Fertilizers and Energy Carriers with Electromaterials. Advanced Materials, 2020, 32, e1904804.	21.0	49
7	Identification and elimination of false positives in electrochemical nitrogen reduction studies. Nature Communications, 2020, 11, 5546.	12.8	264
8	A Roadmap to the Ammonia Economy. Joule, 2020, 4, 1186-1205.	24.0	782
9	Highly ordered mesoporous carbon/iron porphyrin nanoreactor for the electrochemical reduction of CO ₂ . Journal of Materials Chemistry A, 2020, 8, 14966-14974.	10.3	19
10	Unraveling the cohesive and interfacial adhesive strengths of electrodes for automotive fuel cells. Journal of Power Sources, 2020, 455, 227928.	7.8	5
11	Synergistic amplification of (photo)catalytic oxygen and hydrogen generation from water by thin-film polypyrrole composites. Molecular Catalysis, 2020, 490, 110955.	2.0	6
12	Electroreduction of Nitrates, Nitrites, and Gaseous Nitrogen Oxides: A Potential Source of Ammonia in Dinitrogen Reduction Studies. ACS Energy Letters, 2020, 5, 2095-2097.	17.4	170
13	Energy efficient electrochemical reduction of CO ₂ to CO using a three-dimensional porphyrin/graphene hydrogel. Energy and Environmental Science, 2019, 12, 747-755.	30.8	125
14	Steric Modification of a Cobalt Phthalocyanine/Graphene Catalyst To Give Enhanced and Stable Electrochemical CO ₂ Reduction to CO. ACS Energy Letters, 2019, 4, 666-672.	17.4	183
15	Room temperature CO2 reduction to solid carbon species on liquid metals featuring atomically thin ceria interfaces. Nature Communications, 2019, 10, 865.	12.8	179
16	Elucidating the Polymeric Binder Distribution within Lithiumâ€lon Battery Electrodes Using SAICAS. ChemPhysChem, 2018, 19, 1627-1634.	2.1	18
17	Synergistic amplification of catalytic hydrogen generation by a thin-film conducting polymer composite. Catalysis Science and Technology, 2018, 8, 4169-4179.	4.1	7
18	A Porphyrin/Graphene Framework: A Highly Efficient and Robust Electrocatalyst for Carbon Dioxide Reduction. Advanced Energy Materials, 2018, 8, 1801280.	19.5	88

JAECHEOL CHOI

#	Article	IF	CITATIONS
19	Synergistic Amplification of Water Oxidation Catalysis on Pt by a Thin-Film Conducting Polymer Composite. ACS Applied Energy Materials, 2018, 1, 4235-4246.	5.1	8
20	High Performance Fe Porphyrin/Ionic Liquid Coâ€catalyst for Electrochemical CO ₂ Reduction. Chemistry - A European Journal, 2016, 22, 14158-14161.	3.3	55
21	Comparative study on experiments and simulation of blended cathode active materials for lithium ion batteries. Electrochimica Acta, 2016, 187, 422-432.	5.2	48
22	Effect of back-side-coated electrodes on electrochemical performances of lithium-ion batteries. Journal of Power Sources, 2015, 275, 712-719.	7.8	12
23	Highly Adhesive and Soluble Copolyimide Binder: Improving the Long-Term Cycle Life of Silicon Anodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 14851-14858.	8.0	96
24	A comparative investigation of carbon black (Super-P) and vapor-grown carbon fibers (VGCFs) as conductive additives for lithium-ion battery cathodes. RSC Advances, 2015, 5, 95073-95078.	3.6	57
25	Effect of LiFePO4 cathode density and thickness on electrochemical performance of lithium metal polymer batteries prepared by in situ thermal polymerization. Electrochimica Acta, 2015, 154, 149-156.	5.2	17
26	Binder-free metal fibril-supported Fe2O3 anodes for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 2906.	10.3	15
27	Measurement and Analysis of Adhesion Property of Lithium-Ion Battery Electrodes with SAICAS. ACS Applied Materials & Interfaces, 2014, 6, 526-531.	8.0	88
28	Improved high-temperature performance of lithium-ion batteries through use of a thermally stable co-polyimide-based cathode binder. Journal of Power Sources, 2014, 252, 138-143.	7.8	38
29	Electrospun Three-Dimensional Mesoporous Silicon Nanofibers as an Anode Material for High-Performance Lithium Secondary Batteries. ACS Applied Materials & Interfaces, 2013, 5, 12005-12010.	8.0	82
30	Effect of cathode/anode area ratio on electrochemical performance ofÂlithium-ion batteries. Journal of Power Sources, 2013, 243, 641-647.	7.8	51
31	Effect of LiCoO ₂ Cathode Density and Thickness on Electrochemical Performance of Lithium-Ion Batteries. Journal of Electrochemical Science and Technology, 2013, 4, 27-33.	2.2	21