Taeho Yoon

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6894987/publications.pdf

Version: 2024-02-01

61	2,778	172207	182168
papers	citations	29 h-index	51 g-index

62	62	62	3184
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluoroethylene Carbonate and Vinylene Carbonate Reduction: Understanding Lithium-Ion Battery Electrolyte Additives and Solid Electrolyte Interphase Formation. Chemistry of Materials, 2016, 28, 8149-8159.	3.2	339
2	Systematic Investigation of Binders for Silicon Anodes: Interactions of Binder with Silicon Particles and Electrolytes and Effects of Binders on Solid Electrolyte Interphase Formation. ACS Applied Materials & Interfaces, 2016, 8, 12211-12220.	4.0	204
3	Biological remediation technologies for dyes and heavy metals in wastewater treatment: New insight. Bioresource Technology, 2022, 343, 126154.	4.8	195
4	Failure mechanisms of LiNi0.5Mn1.5O4 electrode at elevated temperature. Journal of Power Sources, 2012, 215, 312-316.	4.0	158
5	Capacity Fading Mechanisms of Silicon Nanoparticle Negative Electrodes for Lithium Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A2325-A2330.	1.3	120
6	Spectroscopic and Density Functional Theory Characterization of Common Lithium Salt Solvates in Carbonate Electrolytes for Lithium Batteries. Journal of Physical Chemistry C, 2017, 121, 2135-2148.	1.5	114
7	Continuous activation of Li2MnO3 component upon cycling in Li1.167Ni0.233Co0.100Mn0.467Mo0.033O2 cathode material for lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 2833.	5.2	109
8	Thermal Decomposition of the Solid Electrolyte Interphase (SEI) on Silicon Electrodes for Lithium Ion Batteries. Chemistry of Materials, 2017, 29, 3237-3245.	3.2	109
9	State-of-the-art developments in carbon quantum dots (CQDs): Photo-catalysis, bio-imaging, and bio-sensing applications. Chemosphere, 2022, 302, 134815.	4.2	81
10	Integrated biohydrogen production via lignocellulosic waste: Opportunity, challenges & future prospects. Bioresource Technology, 2021, 338, 125511.	4.8	67
11	Interfacially Induced Cascading Failure in Graphiteâ€Silicon Composite Anodes. Advanced Science, 2019, 6, 1801007.	5.6	66
12	Effect of Lithium Borate Additives on Cathode Film Formation in LiNi_{0.5}Mn_{1.5}O₄/Li Cells. ACS Applied Materials & Interfaces, 2017, 9, 20467-20475.	4.0	65
13	Li2NiO2 as a sacrificing positive additive for lithium-ion batteries. Electrochimica Acta, 2013, 108, 591-595.	2.6	63
14	Adsorption promoted visible-light-induced photocatalytic degradation of antibiotic tetracycline by tin oxide/cerium oxide nanocomposite. Applied Surface Science, 2021, 565, 150337.	3.1	62
15	Excellent visible-light photocatalytic activity towards the degradation of tetracycline antibiotic and electrochemical sensing of hydrazine by SnO2â€“CdS nanostructures. Journal of Cleaner Production, 2022, 349, 131249.	4.6	61
16	Three-dimensional electronic resistivity mapping of solid electrolyte interphase on Si anode materials. Nano Energy, 2019, 55, 477-485.	8.2	56
17	Mechanism of Co3O4/graphene catalytic activity in Liâ€“O2 batteries using carbonate based electrolytes. Electrochimica Acta, 2013, 90, 63-70.	2.6	48
18	Na,O-co-doped-graphitic-carbon nitride (Na,O-g-C3N4) for nonenzymatic electrochemical sensing of hydrogen peroxide. Applied Surface Science, 2020, 525, 146353.	3.1	45

#	Article	IF	Citations
19	A tetradentate Ni(II) complex cation as a single redox couple for non-aqueous flow batteries. Journal of Power Sources, 2015, 283, 300-304.	4.0	41
20	1,3,5-Trihydroxybenzene as a film-forming additive for high-voltage positive electrode. Electrochemistry Communications, 2013, 27, 26-28.	2.3	39
21	Lithium Salt Effects on Silicon Electrode Performance and Solid Electrolyte Interphase (SEI) Structure, Role of Solution Structure on SEI Formation. Journal of the Electrochemical Society, 2017, 164, A2082-A2088.	1.3	38
22	A sensitive electrochemical detection of hydrazine based on SnO2/CeO2 nanostructured oxide. Microchemical Journal, 2021, 171, 106784.	2.3	38
23	A Comparative Study on Thermal Stability of Two Solid Electrolyte Interphase (SEI) Films on Graphite Negative Electrode. Journal of the Electrochemical Society, 2013, 160, A1539-A1543.	1.3	37
24	Increase of both solubility and working voltage by acetyl substitution on ferrocene for non-aqueous flow battery. Electrochemistry Communications, 2016, 69, 72-75.	2.3	37
25	Passivation Failure of Al Current Collector in LiPF₆â€Based Electrolytes for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2022, 32, .	7.8	37
26	Fabrication of binary SnO2/TiO2 nanocomposites under a sonication-assisted approach: Tuning of band-gap and water depollution applications under visible light irradiation. Ceramics International, 2021, 47, 15073-15081.	2.3	36
27	Ag-modified SnO2-graphitic-carbon nitride nanostructures for electrochemical sensor applications. Ceramics International, 2021, 47, 23578-23589.	2.3	36
28	Dissolution of cathodeâ€“electrolyte interphase deposited on LiNi0.5Mn1.5O4 for lithium-ion batteries. Journal of Power Sources, 2021, 503, 230051.	4.0	35
29	Low-Temperature Performance Improvement of Graphite Electrode by Allyl Sulfide Additive and Its Film-Forming Mechanism. Journal of the Electrochemical Society, 2016, 163, A1798-A1804.	1.3	34
30	Compositional Change of Surface Film Deposited on LiNi0.5Mn1.5O4Positive Electrode. Journal of the Electrochemical Society, 2014, 161, A519-A523.	1.3	31
31	A Firstâ€Cycle Coulombic Efficiency Higher than 100â€‰% Observed for a Li₂MO₃ (M=Mo or Ru) Electrode. Angewandte Chemie - International Edition, 2014, 53, 10654-10657.	7.2	26
32	Thermal Behavior of Solid Electrolyte Interphase Films Deposited on Graphite Electrodes with Different States-of-Charge. Journal of the Electrochemical Society, 2015, 162, A892-A896.	1.3	25
33	A methodological review on material growth and synthesis of solar-driven water splitting photoelectrochemical cells. RSC Advances, 2019, 9, 30112-30124.	1.7	24
34	An azamacrocyclic electrolyte additive to suppress metal deposition in lithium-ion batteries. Electrochemistry Communications, 2015, 58, 25-28.	2.3	23
35	Tris(pentafluorophenyl)silane as an Electrolyte Additive for 5 V LiNi_{0.5}Mn_{1.5}O₄Positive Electrode. Journal of the Electrochemical Society, 2016, 163, A898-A903.	1.3	23
36	Electrochemical reactivity of polyimide and feasibility as a conductive binder for silicon negative electrodes. Journal of Materials Science, 2017, 52, 3613-3621.	1.7	23

#	Article	IF	Citations
37	Effective passivation of a high-voltage positive electrode by 5-hydroxy-1H-indazole additives. Journal of Materials Chemistry A, 2014, 2, 14628-14633.	5.2	21
38	Spatial Molecular Layer Deposition of Ultrathin Polyamide To Stabilize Silicon Anodes in Lithium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 4135-4143.	2.5	20
39	Biohydrogen production via integrated sequential fermentation using magnetite nanoparticles treated crude enzyme to hydrolyze sugarcane bagasse. International Journal of Hydrogen Energy, 2022, 47, 30861-30871.	3.8	18
40	Carbon fabric as a current collector for electroless-plated Cu6Sn5 negative electrode for lithium-ion batteries. Journal of Alloys and Compounds, 2017, 692, 583-588.	2.8	16
41	The Investigation of Electrolyte Oxidation and Film Deposition Characteristics at High Potentials in a Carbonate-Based Electrolyte Using Pt Electrode. Journal of the Electrochemical Society, 2018, 165, A1095-A1098.	1.3	14
42	Electrochemically induced fractures in crystalline silicon anodes. Journal of Power Sources, 2019, 425, 44-49.	4.0	14
43	Hydrogen Evolution Reaction by Atomic Layerâ€Deposited MoN_x on Porous Carbon Substrates: The Effects of Porosity and Annealing on Catalyst Activity and Stability. ChemSusChem, 2020, 13, 4159-4168.	3.6	14
44	Reinforcement of an electrically conductive network with ethanol as a dispersing agent in the slurry preparation step. Journal of Power Sources, 2015, 287, 359-362.	4.0	12
45	Fabrication of Electrochemical Sensor Using SnO₂-Modified-TiO₂Nanocomposite for Detection of Hydrazine. Journal of the Electrochemical Society, 2021, 168, 067518.	1.3	12
46	Biogenic enabled in-vitro synthesis of nickel cobaltite nanoparticle and its application in single stage hybrid biohydrogen production. Bioresource Technology, 2021, 342, 126006.	4.8	11
47	Cobalt-ferrite/Ag-fMWCNT hybrid nanocomposite catalyst for efficient degradation of synthetic organic dyes via peroxymonosulfate activation. Environmental Research, 2022, 205, 112424.	3.7	10
48	Concentration Gradient Induced Delithiation Failure of MoO₃ for Li-Ion Batteries. Nano Letters, 2022, 22, 761-767.	4.5	10
49	Synergistic performance of <scp> Fe ₃ O ₄ </scp> / <scp> SnO ₂ </scp> / <scp>rGO</scp> nanocomposite for supercapacitor and visible lightâ€responsive photocatalysis. International Journal of Energy Research, 2022, 46, 6517-6528.	2.2	10
50	Surface Modification of LiCoO₂ by NASICON-Type Ceramic Materials for Lithium Ion Batteries. Journal of Nanoscience and Nanotechnology, 2017, 17, 4977-4982.	0.9	9
51	Graphiticâ€carbon nitride based mixed-phase bismuth nanostructures: Tuned optical and structural properties with boosted photocatalytic performance for wastewater decontamination under visible-light irradiation. NanoImpact, 2021, 23, 100345.	2.4	8
52	The Effects of Radio Frequency Sputtering of TiO₂ on Li[Li_{0.07}Ni_{0.38}Co_{0.15}Mn_{0.40}]O<S Cathode for Lithium Ion Batteries. Journal of Nanoscience and Nanotechnology, 2013, 13, 7924-7931.		
53	Design for a longer photoinduced charge separation and improved visible-light-driven H2 generation through structure reversal and oxygen vacancies via Ni substitution into ZnFe2O4 spinel. Ceramics International, 2021, 47, 20317-20334.	2.3	7
54	Co-activated Conversion Reaction of MoO2:CoMoO3 as a Negative Electrode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 9814-9819.	4.0	6

#	Article	IF	Citations
55	Re-Deposition of Aluminum Species after Dissolution to Improve Electrode Performances of Lithium Manganese Oxide. Journal of the Electrochemical Society, 2014, 161, A2020-A2025.	1.3	4
56	Effective alkaline water electrolysis on nwMnO2-nsNi(OH)2 composite electrode via lattice oxygen participant adsorbate evolving mechanism. Applied Surface Science, 2021, 567, 150281.	3.1	4
57	Tris(pentafluorophenyl)silane as a Solid Electrolyte Interphase (SEI)-Forming Agent for Graphite Electrodes. Journal of the Electrochemical Society, 2017, 164, A1887-A1892.	1.3	2
58	Microstructure Study on Initial Lithiation/Delithiation Cycle of Crystalline Silicon Wafer. Microscopy and Microanalysis, 2019, 25, 2098-2099.	0.2	1
59	Aerogel and its composites for sensing, adsorption, and photocatalysis. , 2021, , 125-144.		1
60	Microstructure Study on Initial Lithiation/Delithiation Cycle of Crystalline Silicon Waferâ€"ADDENDUM. Microscopy and Microanalysis, 2020, 26, 183-183.	0.2	0
61	Improved production of thermo-alkali-tolerant fungal cellulolytic cocktail following Co-fermentation of sugarcane bagasse and secondary sewage sludge. Biomass Conversion and Biorefinery, 2024, 14, 6849-6854.	2.9	0