

Taeho Yoon

List of Publications by Year in descending order

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61
papers

2,778
citations

172207

29
h-index

182168

51
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62
all docs

62
docs citations

62
times ranked

3184
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved production of thermo-alkali-tolerant fungal cellulolytic cocktail following Co-fermentation of sugarcane bagasse and secondary sewage sludge. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 6849-6854.	2.9	0
2	Biohydrogen production via integrated sequential fermentation using magnetite nanoparticles treated crude enzyme to hydrolyze sugarcane bagasse. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 30861-30871.	3.8	18
3	Biological remediation technologies for dyes and heavy metals in wastewater treatment: New insight. <i>Bioresource Technology</i> , 2022, 343, 126154.	4.8	195
4	Cobalt-ferrite/Ag-fMWCNT hybrid nanocomposite catalyst for efficient degradation of synthetic organic dyes via peroxymonosulfate activation. <i>Environmental Research</i> , 2022, 205, 112424.	3.7	10
5	Concentration Gradient Induced Delithiation Failure of MoO ₃ for Li-Ion Batteries. <i>Nano Letters</i> , 2022, 22, 761-767.	4.5	10
6	Excellent visible-light photocatalytic activity towards the degradation of tetracycline antibiotic and electrochemical sensing of hydrazine by SnO ₂ @CdS nanostructures. <i>Journal of Cleaner Production</i> , 2022, 349, 131249.	4.6	61
7	Synergistic performance of Fe ₃ O ₄ / SnO ₂ / rGO nanocomposite for supercapacitor and visible light-responsive photocatalysis. <i>International Journal of Energy Research</i> , 2022, 46, 6517-6528.	2.2	10
8	Passivation Failure of Al Current Collector in LiPF ₆ -Based Electrolytes for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	37
9	State-of-the-art developments in carbon quantum dots (CQDs): Photo-catalysis, bio-imaging, and bio-sensing applications. <i>Chemosphere</i> , 2022, 302, 134815.	4.2	81
10	Co-activated Conversion Reaction of MoO ₂ :CoMoO ₃ as a Negative Electrode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9814-9819.	4.0	6
11	Fabrication of Electrochemical Sensor Using SnO ₂ -Modified-TiO ₂ Nanocomposite for Detection of Hydrazine. <i>Journal of the Electrochemical Society</i> , 2021, 168, 067518.	1.3	12
12	Fabrication of binary SnO ₂ /TiO ₂ nanocomposites under a sonication-assisted approach: Tuning of band-gap and water depollution applications under visible light irradiation. <i>Ceramics International</i> , 2021, 47, 15073-15081.	2.3	36
13	Design for a longer photoinduced charge separation and improved visible-light-driven H ₂ generation through structure reversal and oxygen vacancies via Ni substitution into ZnFe ₂ O ₄ spinel. <i>Ceramics International</i> , 2021, 47, 20317-20334.	2.3	7
14	Graphitic-carbon nitride based mixed-phase bismuth nanostructures: Tuned optical and structural properties with boosted photocatalytic performance for wastewater decontamination under visible-light irradiation. <i>NanoImpact</i> , 2021, 23, 100345.	2.4	8
15	Dissolution of cathode-electrolyte interphase deposited on LiNi _{0.5} Mn _{1.5} O ₄ for lithium-ion batteries. <i>Journal of Power Sources</i> , 2021, 503, 230051.	4.0	35
16	Ag-modified SnO ₂ -graphitic-carbon nitride nanostructures for electrochemical sensor applications. <i>Ceramics International</i> , 2021, 47, 23578-23589.	2.3	36
17	Integrated biohydrogen production via lignocellulosic waste: Opportunity, challenges & future prospects. <i>Bioresource Technology</i> , 2021, 338, 125511.	4.8	67
18	Adsorption promoted visible-light-induced photocatalytic degradation of antibiotic tetracycline by tin oxide/cerium oxide nanocomposite. <i>Applied Surface Science</i> , 2021, 565, 150337.	3.1	62

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19	Effective alkaline water electrolysis on $\text{nwMnO}_2\text{-nsNi(OH)}_2$ composite electrode via lattice oxygen participant adsorbate evolving mechanism. <i>Applied Surface Science</i> , 2021, 567, 150281.	3.1	4
20	Biogenic enabled in-vitro synthesis of nickel cobaltite nanoparticle and its application in single stage hybrid biohydrogen production. <i>Bioresource Technology</i> , 2021, 342, 126006.	4.8	11
21	A sensitive electrochemical detection of hydrazine based on $\text{SnO}_2/\text{CeO}_2$ nanostructured oxide. <i>Microchemical Journal</i> , 2021, 171, 106784.	2.3	38
22	Aerogel and its composites for sensing, adsorption, and photocatalysis. , 2021, , 125-144.		1
23	Microstructure Study on Initial Lithiation/Delithiation Cycle of Crystalline Silicon Wafer. ADDENDUM. <i>Microscopy and Microanalysis</i> , 2020, 26, 183-183.	0.2	0
24	Hydrogen Evolution Reaction by Atomic Layer Deposited MoN on Porous Carbon Substrates: The Effects of Porosity and Annealing on Catalyst Activity and Stability. <i>ChemSusChem</i> , 2020, 13, 4159-4168.	3.6	14
25	Na_2O -co-doped-graphitic-carbon nitride ($\text{Na}_2\text{O-g-C}_3\text{N}_4$) for nonenzymatic electrochemical sensing of hydrogen peroxide. <i>Applied Surface Science</i> , 2020, 525, 146353.	3.1	45
26	Microstructure Study on Initial Lithiation/Delithiation Cycle of Crystalline Silicon Wafer. <i>Microscopy and Microanalysis</i> , 2019, 25, 2098-2099.	0.2	1
27	Spatial Molecular Layer Deposition of Ultrathin Polyamide To Stabilize Silicon Anodes in Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 4135-4143.	2.5	20
28	Electrochemically induced fractures in crystalline silicon anodes. <i>Journal of Power Sources</i> , 2019, 425, 44-49.	4.0	14
29	A methodological review on material growth and synthesis of solar-driven water splitting photoelectrochemical cells. <i>RSC Advances</i> , 2019, 9, 30112-30124.	1.7	24
30	Interfacially Induced Cascading Failure in Graphite-Silicon Composite Anodes. <i>Advanced Science</i> , 2019, 6, 1801007.	5.6	66
31	Three-dimensional electronic resistivity mapping of solid electrolyte interphase on Si anode materials. <i>Nano Energy</i> , 2019, 55, 477-485.	8.2	56
32	The Investigation of Electrolyte Oxidation and Film Deposition Characteristics at High Potentials in a Carbonate-Based Electrolyte Using Pt Electrode. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1095-A1098.	1.3	14
33	Effect of Lithium Borate Additives on Cathode Film Formation in $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4/\text{Li}$ Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20467-20475.	4.0	65
34	Surface Modification of LiCoO_2 by NASICON-Type Ceramic Materials for Lithium Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4977-4982.	0.9	9
35	Thermal Decomposition of the Solid Electrolyte Interphase (SEI) on Silicon Electrodes for Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2017, 29, 3237-3245.	3.2	109
36	Spectroscopic and Density Functional Theory Characterization of Common Lithium Salt Solvates in Carbonate Electrolytes for Lithium Batteries. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2135-2148.	1.5	114

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37	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
38	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
39	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
40	Carbon fabric as a current collector for electroless-plated Cu ₆ Sn ₅ negative electrode for lithium-ion batteries. Journal of Alloys and Compounds, 2017, 692, 583-588.	2.8	16
41	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
42	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
43	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
44	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
45	Tris(pentafluorophenyl)silane as an Electrolyte Additive for 5 V LiNi _{0.5} Mn _{1.5} O ₄ Positive Electrode. Journal of the Electrochemical Society, 2016, 163, A898-A903.	1.3	23
46	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
47	An azamacrocyclic electrolyte additive to suppress metal deposition in lithium-ion batteries. Electrochemistry Communications, 2015, 58, 25-28.	2.3	23
48	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
49	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
50	Capacity Fading Mechanisms of Silicon Nanoparticle Negative Electrodes for Lithium Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A2325-A2330.	1.3	120
51	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
52	Compositional Change of Surface Film Deposited on LiNi _{0.5} Mn _{1.5} O ₄ Positive Electrode. Journal of the Electrochemical Society, 2014, 161, A519-A523.	1.3	31
53	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
54	A First-Cycle Coulombic Efficiency Higher than 100% Observed for a Li ₂ MO ₃ (M=Mo or Ru) Electrode. Angewandte Chemie - International Edition, 2014, 53, 10654-10657.	7.2	26

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55	Mechanism of Co ₃ O ₄ /graphene catalytic activity in Li ⁺ O ₂ batteries using carbonate based electrolytes. <i>Electrochimica Acta</i> , 2013, 90, 63-70.	2.6	48
56	Li ₂ NiO ₂ as a sacrificing positive additive for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 108, 591-595.	2.6	63
57	1,3,5-Trihydroxybenzene as a film-forming additive for high-voltage positive electrode. <i>Electrochemistry Communications</i> , 2013, 27, 26-28.	2.3	39
58	Continuous activation of Li ₂ MnO ₃ component upon cycling in Li _{1.167} Ni _{0.233} Co _{0.100} Mn _{0.467} Mo _{0.033} O ₂ cathode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2833.	5.2	109
59	The Effects of Radio Frequency Sputtering of TiO ₂ on Li _{0.07} Ni _{0.38} Co _{0.15} Mn _{0.40} O ₂ Cathode for Lithium Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 7924-7931.	4.0	105
60	A Comparative Study on Thermal Stability of Two Solid Electrolyte Interphase (SEI) Films on Graphite Negative Electrode. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1539-A1543.	1.3	37
61	Failure mechanisms of LiNi _{0.5} Mn _{1.5} O ₄ electrode at elevated temperature. <i>Journal of Power Sources</i> , 2012, 215, 312-316.	4.0	158