## Daiwon Choi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effects of waterâ€based binders on electrochemical performance of manganese dioxide cathode in mild aqueous zinc batteries. , 2021, 3, 473-481.		44
2	Lithium-ion battery physics and statistics-based state of health model. Journal of Power Sources, 2021, 501, 230032.	7.8	23
3	Li-ion battery technology for grid application. Journal of Power Sources, 2021, 511, 230419.	7.8	87
4	Mechanistic investigation of redox processes in Zn–MnO <sub>2</sub> battery in mild aqueous electrolytes. Journal of Materials Chemistry A, 2021, 9, 20766-20775.	10.3	18
5	(Invited) Comparative Reliability Testing of Li-Ion Battery Chemistries Under Grid Services. ECS Meeting Abstracts, 2020, MA2020-02, 1064-1064.	0.0	0
6	Lithium Insertion Mechanism in Iron Fluoride Nanoparticles Prepared by Catalytic Decomposition of Fluoropolymer. ACS Applied Energy Materials, 2019, 2, 1832-1843.	5.1	21
7	Synthesis, surface chemistry and pseudocapacitance mechanisms of VN nanocrystals derived by a simple two-step halide approach. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 230, 8-19.	3.5	8
8	Lifecycle comparison of selected Li-ion battery chemistries under grid and electric vehicle duty cycle combinations. Journal of Power Sources, 2018, 380, 185-193.	7.8	49
9	Exploring Lithium Deficiency in Layered Oxide Cathode for Liâ€ <del>l</del> on Battery. Advanced Sustainable Systems, 2017, 1, 1700026.	5.3	1
10	Li″on Batteries: Exploring Lithium Deficiency in Layered Oxide Cathode for Li″on Battery (Adv.) Tj ETQq0 0 0	rgBT_/Ove	rlock 10 Tf 5
11	Electrochemically Controlled Ionâ€exchange Property of Carbon Nanotubes/Polypyrrole Nanocomposite in Various Electrolyte Solutions. Electroanalysis, 2017, 29, 929-936.	2.9	14
12	Rechargeable Mg–Li hybrid batteries: status and challenges. Journal of Materials Research, 2016, 31, 3125-3141.	2.6	92
13	LiCoPO4 cathode from a CoHPO4·xH2O nanoplate precursor for high voltage Li-ion batteries. Heliyon, 2016, 2, e00081.	3.2	10
14	Toward the design of high voltage magnesium–lithium hybrid batteries using dual-salt electrolytes. Chemical Communications, 2016, 52, 5379-5382.	4.1	60
15	In situ electrochemical-electron spin resonance investigations of multi-electron redox reaction for organic radical cathodes. Journal of Power Sources, 2016, 306, 812-816.	7.8	16

16	Controlling Porosity in Ligninâ€Derived Nanoporous Carbon for Supercapacitor Applications. ChemSusChem, 2015, 8, 411-411.	6.8	7

17Controlling Porosity in Ligninâ€Derived Nanoporous Carbon for Supercapacitor Applications.6.819617ChemSusChem, 2015, 8, 428-432.6.8196	
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Nanomaterials-Enhanced Electrically Switched Ion Exchange Process for Water Treatment., 2014, , 271-280.

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19	GeO <sub><i>x</i></sub> /Reduced Graphene Oxide Composite as an Anode for Liâ€lon Batteries: Enhanced Capacity via Reversible Utilization of Li <sub>2</sub> O along with Improved Rate Performance. Advanced Functional Materials, 2014, 24, 1059-1066.	14.9	143
20	Chemically Bonded Phosphorus/Graphene Hybrid as a High Performance Anode for Sodium-Ion Batteries. Nano Letters, 2014, 14, 6329-6335.	9.1	434
21	Li-Ion Battery with LiFePO4 Cathode and Li4Ti5O12 Anode for Stationary Energy Storage. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 21-25.	2.2	38
22	Multi-electron redox reaction of an organic radical cathode induced by a mesopore carbon network with nitroxide polymers. Physical Chemistry Chemical Physics, 2013, 15, 20921.	2.8	40
23	Catalytic templating approaches for three-dimensional hollow carbon/graphene oxide nano-architectures. Nanoscale, 2013, 5, 6291.	5.6	31
24	Simply AlF3-treated Li4Ti5O12 composite anode materials for stable and ultrahigh power lithium-ion batteries. Journal of Power Sources, 2013, 236, 169-174.	7.8	51
25	Amorphous Zn2GeO4 nanoparticles as anodes with high reversible capacity and long cycling life for Li-ion batteries. Nano Energy, 2013, 2, 498-504.	16.0	120
26	Composite organic radical–inorganic hybrid cathode for lithium-ion batteries. Journal of Power Sources, 2013, 233, 69-73.	7.8	11
27	Silicon-Based Anodes for Li-Ion Batteries. , 2013, , 471-504.		4
28	Development of Lithium-Organic Redox Flow Battery. ECS Meeting Abstracts, 2013, , .	0.0	0
29	Anthraquinone with tailored structure for a nonaqueous metal–organic redox flow battery. Chemical Communications, 2012, 48, 6669.	4.1	217
30	Polyanion Type Cathodes for Stationary Lithium Ion Batteries. ECS Meeting Abstracts, 2012, , .	0.0	0
31	Olivine Type Cathodes for Stationary Lithium-Ion Batteries. ECS Meeting Abstracts, 2012, , .	0.0	0
32	Enhanced performance of graphite anode materials by AlF3 coating for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 12745.	6.7	129
33	Highâ€Performance LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Spinel Controlled by Mn <sup>3+</sup> Concentration and Site Disorder. Advanced Materials, 2012, 24, 2109-2116.	21.0	434
34	Silicon-Based Anodes for Li-Ion Batteries. , 2012, , 9293-9316.		4
35	Template free synthesis of LiV <sub>3</sub> O <sub>8</sub> nanorods as a cathode material for high-rate secondary lithium batteries. Journal of Materials Chemistry, 2011, 21, 1153-1161.	6.7	105
36	In Situ Transmission Electron Microscopy Observation of Microstructure and Phase Evolution in a SnO <sub>2</sub> Nanowire during Lithium Intercalation. Nano Letters, 2011, 11, 1874-1880.	9.1	266

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37	Thermal stability and phase transformation of electrochemically charged/discharged LiMnPO4 cathode for Li-ion batteries. Energy and Environmental Science, 2011, 4, 4560.	30.8	107
38	Electrochemical performances of LiMnPO4 synthesized from non-stoichiometric Li/Mn ratio. Physical Chemistry Chemical Physics, 2011, 13, 18099.	2.8	31
39	Synthesis and Characterization of Nanostructured Niobium and Molybdenum Nitrides by a Two-Step Transition Metal Halide Approach. Journal of the American Ceramic Society, 2011, 94, 2371-2378.	3.8	71
40	Electrochemical Energy Storage for Green Grid. Chemical Reviews, 2011, 111, 3577-3613.	47.7	4,276
41	High-rate cathodes based on Li3V2(PO4)3 nanobelts prepared via surfactant-assisted fabrication. Journal of Power Sources, 2011, 196, 3646-3649.	7.8	100
42	Reversible Sodium Ion Insertion in Single Crystalline Manganese Oxide Nanowires with Long Cycle Life. Advanced Materials, 2011, 23, 3155-3160.	21.0	638
43	LiMnPO <sub>4</sub> Nanoplate Grown via Solid-State Reaction in Molten Hydrocarbon for Li-Ion Battery Cathode. Nano Letters, 2010, 10, 2799-2805.	9.1	354
44	Exfoliated MoS <sub>2</sub> Nanocomposite as an Anode Material for Lithium Ion Batteries. Chemistry of Materials, 2010, 22, 4522-4524.	6.7	714
45	Effect of entropy change of lithium intercalation in cathodes and anodes on Li-ion battery thermal management. Journal of Power Sources, 2010, 195, 3720-3729.	7.8	313
46	Lithium-ion batteries for stationary energy storage. Jom, 2010, 62, 24-30.	1.9	59
47	Vapor-induced solid–liquid–solid process for silicon-based nanowire growth. Journal of Power Sources, 2010, 195, 1691-1697.	7.8	16
48	Li-ion batteries from LiFePO4 cathode and anatase/graphene composite anode for stationary energy storage. Electrochemistry Communications, 2010, 12, 378-381.	4.7	145
49	Full Cell Design and Performance for Stationary Li-Ion Battery System. ECS Meeting Abstracts, 2010, , .	0.0	0
50	In situ transmission electron microscopy and spectroscopy studies of interfaces in Li ion batteries: Challenges and opportunities. Journal of Materials Research, 2010, 25, 1541-1547.	2.6	112
51	Synthesis and Characterization of Lithium Manganese Phosphate by a Precipitation Method. Journal of the Electrochemical Society, 2010, 157, A142.	2.9	76
52	Ternary Self-Assembly of Ordered Metal Oxideâ^'Graphene Nanocomposites for Electrochemical Energy Storage. ACS Nano, 2010, 4, 1587-1595.	14.6	795
53	Stabilization of Silicon Anode for Li-Ion Batteries. Journal of the Electrochemical Society, 2010, 157, A1047.	2.9	108
54	Crystal and electronic structure of lithiated nanosized rutile TiO2 by electron diffraction and electron energy-loss spectroscopy. Applied Physics Letters, 2009, 94, .	3.3	21

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55	EQCM immunoassay for phosphorylated acetylcholinesterase as a biomarker for organophosphate exposures based on selective zirconia adsorption and enzyme-catalytic precipitation. Biosensors and Bioelectronics, 2009, 24, 2377-2383.	10.1	65
56	Nanostructures and lithium electrochemical reactivity of lithium titanites and titanium oxides: A review. Journal of Power Sources, 2009, 192, 588-598.	7.8	804
57	Self-Assembled TiO <sub>2</sub> –Graphene Hybrid Nanostructures for Enhanced Li-Ion Insertion. ACS Nano, 2009, 3, 907-914.	14.6	1,596
58	Nanomaterials-Enhanced Electrically Switched Ion Exchange Process for Water Treatment. , 2009, , 179-189.		2
59	In-Situ and Ex-situ TEM Imaging and Spectroscopy Study of Li-Ion Battery. Microscopy and Microanalysis, 2009, 15, 726-727.	0.4	1
60	Synthesis and Li-Ion Insertion Properties of Highly Crystalline Mesoporous Rutile TiO <sub>2</sub> . Chemistry of Materials, 2008, 20, 3435-3442.	6.7	254
61	Direct detection of Pb in urine and Cd, Pb, Cu, and Ag in natural waters using electrochemical sensors immobilized with DMSA functionalized magnetic nanoparticles. Analyst, The, 2008, 133, 348.	3.5	100
62	Porous LiFePO4 for High Rate Li-ion Cathode by Carboxylic Surfactant Assisted Mechanochemical Approach. ECS Meeting Abstracts, 2008, , .	0.0	0
63	Effect of assisted ion energy on properties of silicon oxide thin film deposited by dual ion-beam sputtering. Journal of Applied Polymer Science, 2007, 105, 2444-2452.	2.6	3
64	Mechano-chemical synthesis and characterization of nanostructured Î <sup>2</sup> -TCP powder. Materials Science and Engineering C, 2007, 27, 377-381.	7.3	66
65	Surfactant based sol–gel approach to nanostructured LiFePO4 for high rate Li-ion batteries. Journal of Power Sources, 2007, 163, 1064-1069.	7.8	309
66	Synthesis, Structure, and Electrochemical Characterization of Nanocrystalline Tantalum and Tungsten Nitrides. Journal of the American Ceramic Society, 2007, 90, 3113-3120.	3.8	97
67	An Alternative Chemical Route for the Synthesis and Thermal Stability of Chemically Enriched Hydroxyapatite. Journal of the American Ceramic Society, 2006, 89, 444-449.	3.8	46
68	Fast and Reversible Surface Redox Reaction in Nanocrystalline Vanadium Nitride Supercapacitors. Advanced Materials, 2006, 18, 1178-1182.	21.0	720
69	Nanocrystalline TiN Derived by a Two-Step Halide Approach for Electrochemical Capacitors. Journal of the Electrochemical Society, 2006, 153, A2298.	2.9	165
70	Transparent oxygen impermeable AlOx thin films on polycarbonate deposited by reactive ion beam sputtering. Applied Surface Science, 2005, 249, 60-64.	6.1	4
71	Nanostructured calcium phosphates for biomedical applications: novel synthesis and characterization. Acta Biomaterialia, 2005, 1, 65-83.	8.3	325
72	Synthesis of Nanostructured TiN Using a Two‣tep Transition Metal Halide Approach. Journal of the American Ceramic Society, 2005, 88, 2030-2035.	3.8	32

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73	Chemically Synthesized Nanostructured VN for Pseudocapacitor Application. Electrochemical and Solid-State Letters, 2005, 8, A418.	2.2	81
74	Chemical synthesis of hydroxyapatite/poly(ε-caprolactone) composites. Materials Research Bulletin, 2004, 39, 417-432.	5.2	101
75	Nanostructured ceramics in medical devices: Applications and prospects. Jom, 2004, 56, 38-43.	1.9	73