

Sang-Don Han

List of Publications by Year in descending order

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citations

361413

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times ranked

3169
citing authors

#	ARTICLE	IF	CITATIONS
1	A High Power Rechargeable Nonaqueous Multivalent Zn/V ₂ O ₅ Battery. <i>Advanced Energy Materials</i> , 2016, 6, 1600826.	19.5	284
2	Electrolyte Solvation and Ionic Association II. Acetonitrile-Lithium Salt Mixtures: Highly Dissociated Salts. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1489-A1500.	2.9	269
3	Mechanism of Zn Insertion into Nanostructured γ -MnO ₂ : A Nonaqueous Rechargeable Zn Metal Battery. <i>Chemistry of Materials</i> , 2017, 29, 4874-4884.	6.7	225
4	Origin of Electrochemical, Structural, and Transport Properties in Nonaqueous Zinc Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3021-3031.	8.0	181
5	Direct Observation of Reversible Magnesium Ion Intercalation into a Spinel Oxide Host. <i>Advanced Materials</i> , 2015, 27, 3377-3384.	21.0	178
6	Directing the Lithium-Sulfur Reaction Pathway via Sparingly Solvating Electrolytes for High Energy Density Batteries. <i>ACS Central Science</i> , 2017, 3, 605-613.	11.3	164
7	Electrolyte Solvation and Ionic Association III. Acetonitrile-Lithium Salt Mixtures-Transport Properties. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1061-A1070.	2.9	136
8	Nickel hexacyanoferrate, a versatile intercalation host for divalent ions from nonaqueous electrolytes. <i>Journal of Power Sources</i> , 2016, 325, 646-652.	7.8	90
9	Robust Solid/Electrolyte Interphase (SEI) Formation on Si Anodes Using Glyme-Based Electrolytes. <i>ACS Energy Letters</i> , 2021, 6, 1684-1693.	17.4	87
10	“Rocking-Chair”-Type Metal Hybrid Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30853-30862.	8.0	86
11	Intercalation of Magnesium into a Layered Vanadium Oxide with High Capacity. <i>ACS Energy Letters</i> , 2019, 4, 1528-1534.	17.4	75
12	Degradation Mechanisms of Magnesium Metal Anodes in Electrolytes Based on (CF ₃ SO ₂) ₂ N ⁺ at High Current Densities. <i>Langmuir</i> , 2017, 33, 9398-9406.	3.5	70
13	Practical Stability Limits of Magnesium Electrolytes. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2253-A2257.	2.9	59
14	Advanced hybrid battery with a magnesium metal anode and a spinel LiMn ₂ O ₄ cathode. <i>Chemical Communications</i> , 2016, 52, 9961-9964.	4.1	50
15	Enhanced Interfacial Stability of Si Anodes for Li-Ion Batteries via Surface SiO ₂ Coating. <i>ACS Applied Energy Materials</i> , 2020, 3, 8842-8849.	5.1	38
16	Solvate Structures and Computational/Spectroscopic Characterization of LiBF ₄ Electrolytes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18377-18386.	3.1	37
17	Understanding Degradation at the Lithium-Ion Battery Cathode/Electrolyte Interface: Connecting Transition-Metal Dissolution Mechanisms to Electrolyte Composition. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11930-11939.	8.0	31
18	A simple method for producing bio-based anode materials for lithium-ion batteries. <i>Green Chemistry</i> , 2020, 22, 7093-7108.	9.0	27

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19	Effect of Water Concentration in LiPF ₆ -Based Electrolytes on the Formation, Evolution, and Properties of the Solid Electrolyte Interphase on Si Anodes. ACS Applied Materials & Interfaces, 2020, 12, 49563-49573.	8.0	27
20	Probing the Evolution of Surface Chemistry at the Silicon-Electrolyte Interphase via In Situ Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 286-291.	4.6	23
21	Mechanical Properties and Chemical Reactivity of Li _x SiO _y Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 38558-38564.	8.0	21
22	Intrinsic Properties of Individual Inorganic Silicon-Electrolyte Interphase Constituents. ACS Applied Materials & Interfaces, 2019, 11, 46993-47002.	8.0	21
23	Structural Stabilization of P2-Type Sodium Iron Manganese Oxides by Electrochemically Inactive Mg Substitution: Insights of Redox Behavior and Voltage Decay. ChemSusChem, 2020, 13, 5972-5982.	6.8	19
24	In Situ ATR-FTIR Study of the Cathode-Electrolyte Interphase: Electrolyte Solution Structure, Transition Metal Redox, and Surface Layer Evolution. Batteries and Supercaps, 2021, 4, 778-784.	4.7	12
25	Improving Interface Stability of Si Anodes by Mg Coating in Li-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 11534-11539.	5.1	10
26	Three-Dimensional Mapping of Resistivity and Microstructure of Composite Electrodes for Lithium-Ion Batteries. Nano Letters, 2020, 20, 8081-8088.	9.1	7
27	Reducing Side Reactions Using PF6-based Electrolytes in Multivalent Hybrid Cells. Materials Research Society Symposia Proceedings, 2015, 1773, 27-32.	0.1	4
28	Intercalation of Mg into a Few-Layer Phyllosilicate in Nonaqueous Electrolytes at Room Temperature. Chemistry of Materials, 2020, 32, 6014-6025.	6.7	3