Sang-Don Han

List of Publications by Year
in descending order

28	2,234	361413 20	501196 28
papers	citations	h-index	g-index

28	28	28	3169
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	<i>In Situ</i> ATRâ€FTIR Study of the Cathodeâ€“Electrolyte Interphase: Electrolyte Solution Structure, Transition Metal Redox, and Surface Layer Evolution. Batteries and Supercaps, 2021, 4, 778-784.	4.7	12
2	Understanding Degradation at the Lithium-Ion Battery Cathode/Electrolyte Interface: Connecting Transition-Metal Dissolution Mechanisms to Electrolyte Composition. ACS Applied Materials & Interfaces, 2021, 13, 11930-11939.	8.0	31
3	Robust Solid/Electrolyte Interphase (SEI) Formation on Si Anodes Using Glyme-Based Electrolytes. ACS Energy Letters, 2021, 6, 1684-1693.	17.4	87
4	Probing the Evolution of Surface Chemistry at the Siliconâ€“Electrolyte Interphase via In Situ Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 286-291.	4.6	23
5	A simple method for producing bio-based anode materials for lithium-ion batteries. Green Chemistry, 2020, 22, 7093-7108.	9.0	27
6	Effect of Water Concentration in LiPF₆-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
7	Structural Stabilization of P2â€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
8	Improving Interface Stability of Si Anodes by Mg Coating in Li-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 11534-11539.	5.1	10
9	Three-Dimensional Mapping of Resistivity and Microstructure of Composite Electrodes for Lithium-Ion Batteries. Nano Letters, 2020, 20, 8081-8088.	9.1	7
10	Enhanced Interfacial Stability of Si Anodes for Li-Ion Batteries via Surface SiO₂ Coating. ACS Applied Energy Materials, 2020, 3, 8842-8849.	5.1	38
11	Intercalation of Mg into a Few-Layer Phyllomanganate in Nonaqueous Electrolytes at Room Temperature. Chemistry of Materials, 2020, 32, 6014-6025.	6.7	3
12	Intercalation of Magnesium into a Layered Vanadium Oxide with High Capacity. ACS Energy Letters, 2019, 4, 1528-1534.	17.4	75
13	Intrinsic Properties of Individual Inorganic Siliconâ€“Electrolyte Interphase Constituents. ACS Applied Materials & Interfaces, 2019, 11, 46993-47002.	8.0	21
14	Mechanical Properties and Chemical Reactivity of Li_{<i>x</i>}SiO_{<i>y</i>} Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 38558-38564.	8.0	21
15	Mechanism of Zn Insertion into Nanostructured Î´-MnO₂: A Nonaqueous Rechargeable Zn Metal Battery. Chemistry of Materials, 2017, 29, 4874-4884.	6.7	225
16	Directing the Lithiumâ€“Sulfur Reaction Pathway via Sparingly Solvating Electrolytes for High Energy Density Batteries. ACS Central Science, 2017, 3, 605-613.	11.3	164
17	Degradation Mechanisms of Magnesium Metal Anodes in Electrolytes Based on (CF₃SO₂)₂N^{â€“} at High Current Densities. Langmuir, 2017, 33, 9398-9406.	3.5	70
18	Advanced hybrid battery with a magnesium metal anode and a spinel LiMn₂O₄ cathode. Chemical Communications, 2016, 52, 9961-9964.	4.1	50

#	Article	IF	Citations
19	Practical Stability Limits of Magnesium Electrolytes. Journal of the Electrochemical Society, 2016, 163, A2253-A2257.	2.9	59
20	Nickel hexacyanoferrate, a versatile intercalation host for divalent ions from nonaqueous electrolytes. Journal of Power Sources, 2016, 325, 646-652.	7.8	90
21	A High Power Rechargeable Nonaqueous Multivalent Zn/V₂O₅ Battery. Advanced Energy Materials, 2016, 6, 1600826.	19.5	284
22	â€œRocking-Chairâ€•Type Metal Hybrid Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 30853-30862.	8.0	86
23	Origin of Electrochemical, Structural, and Transport Properties in Nonaqueous Zinc Electrolytes. ACS Applied Materials & Interfaces, 2016, 8, 3021-3031.	8.0	181
24	Reducing Side Reactions Using PF6-based Electrolytes in Multivalent Hybrid Cells. Materials Research Society Symposia Proceedings, 2015, 1773, 27-32.	0.1	4
25	Direct Observation of Reversible Magnesium Ion Intercalation into a Spinel Oxide Host. Advanced Materials, 2015, 27, 3377-3384.	21.0	178
26	Solvate Structures and Computational/Spectroscopic Characterization of LiBF₄ Electrolytes. Journal of Physical Chemistry C, 2014, 118, 18377-18386.	3.1	37
27	Electrolyte Solvation and Ionic Association III. Acetonitrile-Lithium Salt Mixturesâ€"Transport Properties. Journal of the Electrochemical Society, 2013, 160, A1061-A1070.	2.9	136
28	Electrolyte Solvation and Ionic Association II. Acetonitrile-Lithium Salt Mixtures: Highly Dissociated Salts. Journal of the Electrochemical Society, 2012, 159, A1489-A1500.	2.9	269