Sang Cheol Kim

List of Publications by Year
in descending order

12	1,471	759233 12	1199594 12
papers	citations	h-index	g-index

12	12	12	759
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Liquid electrolyte: The nexus of practical lithium metal batteries. Joule, 2022, 6, 588-616.	24.0	191
2	Rational solvent molecule tuning for high-performance lithium metal battery electrolytes. Nature Energy, 2022, 7, 94-106.	39.5	336
3	Suspension electrolyte with modified Li+ solvation environment for lithium metal batteries. Nature Materials, 2022, 21, 445-454.	27.5	155
4	Graphene coating on silicon anodes enabled by thermal surface modification for high-energy lithium-ion batteries. MRS Bulletin, 2022, 47, 127-133.	3.5	13
5	Correlating Li-Ion Solvation Structures and Electrode Potential Temperature Coefficients. Journal of the American Chemical Society, 2021, 143, 2264-2271.	13.7	44
6	Potentiometric Measurement to Probe Solvation Energy and Its Correlation to Lithium Battery Cyclability. Journal of the American Chemical Society, 2021, 143, 10301-10308.	13.7	83
7	Steric Effect Tuned Ion Solvation Enabling Stable Cycling of High-Voltage Lithium Metal Battery. Journal of the American Chemical Society, 2021, 143, 18703-18713.	13.7	205
8	Ultralight and fire-extinguishing current collectors for high-energy and high-safety lithium-ion batteries. Nature Energy, 2020, 5, 786-793.	39.5	168
9	Microclusters of Kinked Silicon Nanowires Synthesized by a Recyclable Iodide Process for Highâ€Performance Lithiumâ€Ion Battery Anodes. Advanced Energy Materials, 2020, 10, 2002108.	19.5	57
10	Air-Filtering Masks for Respiratory Protection from PM2.5 and Pandemic Pathogens. One Earth, 2020, 3, 574-589.	6.8	60
11	Underpotential lithium plating on graphite anodes caused by temperature heterogeneity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29453-29461.	7.1	94
12	Scalable synthesis of nanoporous silicon microparticles for highly cyclable lithium-ion batteries. Nano Research, 2020, 13, 1558-1563.	10.4	65