

# Sang Cheol Kim

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9583915/publications.pdf>

Version: 2024-02-01

12  
papers

1,471  
citations

759233

12  
h-index

1199594

12  
g-index

12  
all docs

12  
docs citations

12  
times ranked

759  
citing authors

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