

# Daniela Molina Piper

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12066703/publications.pdf>

Version: 2024-02-01

15  
papers

1,240  
citations

687363

13  
h-index

996975

15  
g-index

15  
all docs

15  
docs citations

15  
times ranked

2182  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable silicon-ionic liquid interface for next-generation lithium-ion batteries. Nature Communications, 2015, 6, 6230.	12.8	212
2	Reversible High-Capacity Si Nanocomposite Anodes for Lithium-Ion Batteries Enabled by Molecular Layer Deposition. Advanced Materials, 2014, 26, 1596-1601.	21.0	169
3	Conformal Coatings of Cyclized PAN for Mechanically Resilient Si nano-Composite Anodes. Advanced Energy Materials, 2013, 3, 697-702.	19.5	134
4	Effect of Compressive Stress on Electrochemical Performance of Silicon Anodes. Journal of the Electrochemical Society, 2013, 160, A77-A81.	2.9	119
5	Surface-Coating Regulated Lithiation Kinetics and Degradation in Silicon Nanowires for Lithium Ion Battery. ACS Nano, 2015, 9, 5559-5566.	14.6	118
6	Ionic Liquid Enabled FeS <sub>2</sub> for High-Energy-Density Lithium-Ion Batteries. Advanced Materials, 2014, 26, 7386-7392.	21.0	116
7	A Stabilized PAN-FeS <sub>2</sub> Cathode with an EC/DEC Liquid Electrolyte. Advanced Energy Materials, 2014, 4, 1300961.	19.5	100
8	<i>In Situ</i> Transmission Electron Microscopy Probing of Native Oxide and Artificial Layers on Silicon Nanoparticles for Lithium Ion Batteries. ACS Nano, 2014, 8, 11816-11823.	14.6	99
9	Hierarchical Porous Framework of Si-Based Electrodes for Minimal Volumetric Expansion. Advanced Materials, 2014, 26, 3520-3525.	21.0	47
10	Optimized Silicon Electrode Architecture, Interface, and Microgeometry for Next-Generation Lithium-Ion Batteries. Advanced Materials, 2016, 28, 188-193.	21.0	37
11	Cross-linked aluminum dioxybenzene coating for stabilization of silicon electrodes. Nano Energy, 2016, 22, 202-210.	16.0	30
12	In Situ Engineering of the Electrode-Electrolyte Interface for Stabilized Overlithiated Cathodes. Advanced Materials, 2017, 29, 1604549.	21.0	26
13	Mitigating irreversible capacity losses from carbon agents via surface modification. Journal of Power Sources, 2015, 275, 605-611.	7.8	14
14	Self-Contained Fragmentation and Interfacial Stability in Crude Micron-Silicon Anodes. Journal of the Electrochemical Society, 2018, 165, A244-A250.	2.9	10
15	Doped Si nanoparticles with conformal carbon coating and cyclized-polyacrylonitrile network as high-capacity and high-rate lithium-ion battery anodes. Nanotechnology, 2015, 26, 365401.	2.6	9