

Heechul Jung

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

18 papers	544 citations	12 h-index	18 g-index
18 ext. papers	638 ext. citations	9.4 avg, IF	3.77 L-index

#	Paper	IF	Citations
18	Interplay between electrochemical reactions and mechanical responses in silicon-graphite anodes and its impact on degradation. <i>Nature Communications</i> , 2021 , 12, 2714	17.4	16
17	A comparative study of reaction mechanism of MoS ₂ negative electrode materials for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 876, 160182	5.7	
16	Si-based composite interconnected by multiple matrices for high-performance Li-ion battery anodes. <i>Chemical Engineering Journal</i> , 2020 , 381, 122619	14.7	24
15	Structure- and porosity-tunable, thermally reactive metal organic frameworks for high-performance Ni-rich layered oxide cathode materials with multi-scale pores. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15190-15197	13	6
14	Nanostructured Si-FeSi ₂ -Graphite-C Composite: An Optimized and Practical Solution for Si-Based Anodes for Superior Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2221-A2229	3.9	9
13	Sn-Based Nanocomposite for Li-Ion Battery Anode with High Energy Density, Rate Capability, and Reversibility. <i>ACS Nano</i> , 2018 , 12, 2955-2967	16.7	78
12	Nanoscale electrical resistance imaging of solid electrolyte interphases in lithium-ion battery anodes. <i>Journal of Power Sources</i> , 2018 , 407, 1-5	8.9	10
11	Nanoscale Electrical Degradation of Silicon-Carbon Composite Anode Materials for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24549-24553	9.5	30
10	Verification of Delayed Permanent Lithium Intercalation into Graphite Interlayers by Surface Treatment of Lithium-Ion Battery Anodes. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2290-A2294	3.9	4
9	Protective Oxide Coating for Ionic Conductive Solid Electrolyte Interphase. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30980-30984	9.5	6
8	Silicon/Carbon Nanotube/BaTiO ₃ Nanocomposite Anode: Evidence for Enhanced Lithium-Ion Mobility Induced by the Local Piezoelectric Potential. <i>ACS Nano</i> , 2016 , 10, 2617-27	16.7	52
7	Facile method to improve initial reversible capacity of hollow carbon nanofiber anodes. <i>European Polymer Journal</i> , 2015 , 70, 392-399	5.2	13
6	Novel multi-layered 1-D nanostructure exhibiting the theoretical capacity of silicon for a super-enhanced lithium-ion battery. <i>Nanoscale</i> , 2014 , 6, 5989-98	7.7	42
5	Nanosize Si anode embedded in super-elastic nitinol (NiTi) shape memory alloy matrix for Li rechargeable batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11213		69
4	Bismuth sulfide and its carbon nanocomposite for rechargeable lithium-ion batteries. <i>Electrochimica Acta</i> , 2011 , 56, 2135-2139	6.7	71
3	Improvement of electrochemical behavior of Sn ₂ Fe/C nanocomposite anode with Al ₂ O ₃ addition for lithium-ion batteries. <i>Journal of Power Sources</i> , 2010 , 195, 5044-5048	8.9	20
2	Electrochemical Behaviors and Reaction Mechanism of Nanosilver with Lithium. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, A171		37

- 1 Nanostructured Sn/TiO₂/C composite as a high-performance anode for Li-ion batteries.
Electrochemistry Communications, **2009**, 11, 2165-2168 5.1 57