Sung Chul Jung

List of Publications by Year
in descending order

28 papers	1,760 citations	361413 20 h-index	526287 27 g-index
28 all docs	28 docs citations	28 times ranked	3078 citing authors

#	Article	IF	Citations
1	Side reaction in the hydrogen and carbothermal reductions of BaO and BaCO3: The role of an infinitesimal amount of water. Current Applied Physics, 2022, 34, 19-23.	2.4	1
2	Cation-assisted lithium ion diffusion in a lithium oxythioborate halide glass solid electrolyte. Electrochimica Acta, 2022, 426, 140806.	5.2	1
3	Strong lithium-polysulfide anchoring effect of amorphous carbon for lithiumâ€“sulfur batteries. Current Applied Physics, 2021, 22, 94-103.	2.4	6
4	The molecular sieving mechanism of a polysulfide-blocking metalâ€“organic framework separator for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2021, 9, 23929-23940.	10.3	10
5	Boron-, nitrogen-, aluminum-, and phosphorus-doped graphite electrodes for non-lithium ion batteries. Current Applied Physics, 2020, 20, 988-993.	2.4	8
6	Fe₂CS₂ MXene: a promising electrode for Al-ion batteries. Nanoscale, 2020, 12, 5324-5331.	5.6	35
7	Silicon as the Anode Material for Multivalent-Ion Batteries: A First-Principles Dynamics Study. ACS Applied Materials & Interfaces, 2020, 12, 55746-55755.	8.0	12
8	Comment on â€œAtomistic Mechanisms of Mg Insertion Reactions in Group XIV Anodes for Mg-Ion Batteriesâ€. ACS Applied Materials & Interfaces, 2019, 11, 45365-45367.	8.0	4
9	First-principles molecular dynamics study on ultrafast potassium ion transport in silicon anode. Journal of Power Sources, 2019, 415, 119-125.	7.8	36
10	Siteâ€Selective In Situ Electrochemical Doping for Mnâ€Rich Layered Oxide Cathode Materials in Lithiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1702514.	19.5	57
11	The origin of excellent rate and cycle performance of Sn₄P₃ binary electrodes for sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 1772-1779.	10.3	42
12	Cointercalation of Mg²⁺ Ions into Graphite for Magnesium-Ion Batteries. Chemistry of Materials, 2018, 30, 3199-3203.	6.7	71
13	Two-Dimensional Phosphorene-Derived Protective Layers on a Lithium Metal Anode for Lithium-Oxygen Batteries. ACS Nano, 2018, 12, 4419-4430.	14.6	115
14	Fast Magnesium Ion Transport in the Bi/Mg₃Bi₂ Two-Phase Electrode. Journal of Physical Chemistry C, 2018, 122, 17643-17649.	3.1	24
15	Origin of excellent rate and cycle performance of Na + -solvent cointercalated graphite vs. poor performance of Li + -solvent case. Nano Energy, 2017, 34, 456-462.	16.0	75
16	Monoclinic sulfur cathode utilizing carbon for high-performance lithiumâ€“sulfur batteries. Journal of Power Sources, 2016, 325, 495-500.	7.8	28
17	Flexible Few-Layered Graphene for the Ultrafast Rechargeable Aluminum-Ion Battery. Journal of Physical Chemistry C, 2016, 120, 13384-13389.	3.1	164
18	Atomic-Level Understanding toward a High-Capacity and High-Power Silicon Oxide (SiO) Material. Journal of Physical Chemistry C, 2016, 120, 886-892.	3.1	105

#	Article	IF	Citations
19	Thermodynamic and Kinetic Origins of Lithiation-Induced Amorphous-to-Crystalline Phase Transition of Phosphorus. Journal of Physical Chemistry C, 2015, 119, 12130-12137.	3.1	25
20	Important Role of Functional Groups for Sodium Ion Intercalation in Expanded Graphite. Chemistry of Materials, 2015, 27, 5402-5406.	6.7	79
21	Atom-Level Understanding of the Sodiation Process in Silicon Anode Material. Journal of Physical Chemistry Letters, 2014, 5, 1283-1288.	4.6	127
22	Ultra-low overpotential and high rate capability in Liâ€“O2 batteries through surface atom arrangement of PdCu nanocatalysts. Energy and Environmental Science, 2014, 7, 1362.	30.8	193
23	Polyoxometalateâ€coupled Graphene via Polymeric Ionic Liquid Linker for Supercapacitors. Advanced Functional Materials, 2014, 24, 7301-7309.	14.9	107
24	Sodium Ion Diffusion in Al₂O₃: A Distinct Perspective Compared with Lithium Ion Diffusion. Nano Letters, 2014, 14, 6559-6563.	9.1	91
25	How Do Li Atoms Pass through the Al₂O₃ Coating Layer during Lithiation in Li-ion Batteries?. Journal of Physical Chemistry Letters, 2013, 4, 2681-2685.	4.6	166
26	Lithium intercalation behaviors in Ge and Sn crystalline surfaces. Physical Chemistry Chemical Physics, 2013, 15, 13586.	2.8	13
27	Anisotropic Volume Expansion of Crystalline Silicon during Electrochemical Lithium Insertion: An Atomic Level Rationale. Nano Letters, 2012, 12, 5342-5347.	9.1	116
28	Facet-dependent lithium intercalation into Si crystals: Si(100) vs. Si(111). Physical Chemistry Chemical Physics, 2011, 13, 21282.	2.8	49