

Sung Chul Jung

List of Publications by Year in descending order

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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	Ultra-low overpotential and high rate capability in Li ⁺ /O ₂ batteries through surface atom arrangement of PdCu nanocatalysts. <i>Energy and Environmental Science</i> , 2014, 7, 1362.	30.8	193
2	How Do Li Atoms Pass through the Al ₂ O ₃ Coating Layer during Lithiation in Li-ion Batteries?. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2681-2685.	4.6	166
3	Flexible Few-Layered Graphene for the Ultrafast Rechargeable Aluminum-Ion Battery. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13384-13389.	3.1	164
4	Atom-Level Understanding of the Sodiation Process in Silicon Anode Material. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1283-1288.	4.6	127
5	Anisotropic Volume Expansion of Crystalline Silicon during Electrochemical Lithium Insertion: An Atomic Level Rationale. <i>Nano Letters</i> , 2012, 12, 5342-5347.	9.1	116
6	Two-Dimensional Phosphorene-Derived Protective Layers on a Lithium Metal Anode for Lithium-Oxygen Batteries. <i>ACS Nano</i> , 2018, 12, 4419-4430.	14.6	115
7	Polyoxometalate-coupled Graphene via Polymeric Ionic Liquid Linker for Supercapacitors. <i>Advanced Functional Materials</i> , 2014, 24, 7301-7309.	14.9	107
8	Atomic-Level Understanding toward a High-Capacity and High-Power Silicon Oxide (SiO) Material. <i>Journal of Physical Chemistry C</i> , 2016, 120, 886-892.	3.1	105
9	Sodium Ion Diffusion in Al ₂ O ₃ : A Distinct Perspective Compared with Lithium Ion Diffusion. <i>Nano Letters</i> , 2014, 14, 6559-6563.	9.1	91
10	Important Role of Functional Groups for Sodium Ion Intercalation in Expanded Graphite. <i>Chemistry of Materials</i> , 2015, 27, 5402-5406.	6.7	79
11	Origin of excellent rate and cycle performance of Na ⁺ -solvent cointercalated graphite vs. poor performance of Li ⁺ -solvent case. <i>Nano Energy</i> , 2017, 34, 456-462.	16.0	75
12	Cointercalation of Mg ²⁺ Ions into Graphite for Magnesium-Ion Batteries. <i>Chemistry of Materials</i> , 2018, 30, 3199-3203.	6.7	71
13	Site-selective In Situ Electrochemical Doping for Mn-rich Layered Oxide Cathode Materials in Lithium-ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702514.	19.5	57
14	Facet-dependent lithium intercalation into Si crystals: Si(100) vs. Si(111). <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 21282.	2.8	49
15	The origin of excellent rate and cycle performance of Sn ₄ P ₃ binary electrodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1772-1779.	10.3	42
16	First-principles molecular dynamics study on ultrafast potassium ion transport in silicon anode. <i>Journal of Power Sources</i> , 2019, 415, 119-125.	7.8	36
17	Fe ₂ CS ₂ MXene: a promising electrode for Al-ion batteries. <i>Nanoscale</i> , 2020, 12, 5324-5331.	5.6	35
18	Monoclinic sulfur cathode utilizing carbon for high-performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2016, 325, 495-500.	7.8	28

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19	Thermodynamic and Kinetic Origins of Lithiation-Induced Amorphous-to-Crystalline Phase Transition of Phosphorus. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12130-12137.	3.1	25
20	Fast Magnesium Ion Transport in the Bi/Mg ₃ Bi ₂ Two-Phase Electrode. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17643-17649.	3.1	24
21	Lithium intercalation behaviors in Ge and Sn crystalline surfaces. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13586.	2.8	13
22	Silicon as the Anode Material for Multivalent-Ion Batteries: A First-Principles Dynamics Study. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55746-55755.	8.0	12
23	The molecular sieving mechanism of a polysulfide-blocking metal-organic framework separator for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23929-23940.	10.3	10
24	Boron-, nitrogen-, aluminum-, and phosphorus-doped graphite electrodes for non-lithium ion batteries. <i>Current Applied Physics</i> , 2020, 20, 988-993.	2.4	8
25	Strong lithium-polysulfide anchoring effect of amorphous carbon for lithium-sulfur batteries. <i>Current Applied Physics</i> , 2021, 22, 94-103.	2.4	6
26	Comment on "Atomistic Mechanisms of Mg Insertion Reactions in Group XIV Anodes for Mg-Ion Batteries". <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45365-45367.	8.0	4
27	Side reaction in the hydrogen and carbothermal reductions of BaO and BaCO ₃ : The role of an infinitesimal amount of water. <i>Current Applied Physics</i> , 2022, 34, 19-23.	2.4	1
28	Cation-assisted lithium ion diffusion in a lithium oxythioborate halide glass solid electrolyte. <i>Electrochimica Acta</i> , 2022, 426, 140806.	5.2	1