

Hyeokjo Gwon

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8363718/hyeokjo-gwon-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

35
papers

5,542
citations

30
h-index

38
g-index

38
ext. papers

6,000
ext. citations

18
avg, IF

5.35
L-index

#	Paper	IF	Citations
35	Understanding the Degradation Mechanisms of $\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$ Cathode Material in Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1300787	21.8	709
34	Flexible energy storage devices based on graphene paper. <i>Energy and Environmental Science</i> , 2011 , 4, 1277	35.4	497
33	A Novel High-Energy Hybrid Supercapacitor with an Anatase TiO_2 Reduced Graphene Oxide Anode and an Activated Carbon Cathode. <i>Advanced Energy Materials</i> , 2013 , 3, 1500-1506	21.8	451
32	Superior rechargeability and efficiency of lithium-oxygen batteries: hierarchical air electrode architecture combined with a soluble catalyst. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3926-31	16.4	360
31	Recent progress on flexible lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 538-551	35.4	314
30	Enhanced power and rechargeability of a Li-O ₂ battery based on a hierarchical-fibril CNT electrode. <i>Advanced Materials</i> , 2013 , 25, 1348-52	24	282
29	Rational design of redox mediators for advanced LiO_2 batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	263
28	Toward a lithium-"air" battery: the effect of CO_2 on the chemistry of a lithium-oxygen cell. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9733-42	16.4	262
27	A combined first principles and experimental study on $\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3$ for rechargeable Na batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20535		253
26	Fabrication of FeF_3 Nanoflowers on CNT branches and their application to high power lithium rechargeable batteries. <i>Advanced Materials</i> , 2010 , 22, 5260-4	24	242
25	Structural evolution of layered $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ upon electrochemical cycling in a Li rechargeable battery. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10179		184
24	Fabrication and electrochemical characterization of TiO_2 three-dimensional nanonetwork based on peptide assembly. <i>ACS Nano</i> , 2009 , 3, 1085-90	16.7	183
23	SnO_2 /graphene composite with high lithium storage capability for lithium rechargeable batteries. <i>Nano Research</i> , 2010 , 3, 813-821	10	171
22	A new catalyst-embedded hierarchical air electrode for high-performance LiO_2 batteries. <i>Energy and Environmental Science</i> , 2013 , 6, 3570	35.4	134
21	Review Lithium-Excess Layered Cathodes for Lithium Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2447-A2467	3.9	121
20	Combined First-Principle Calculations and Experimental Study on Multi-Component Olivine Cathode for Lithium Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2009 , 19, 3285-3292	15.6	112
19	Sodium-oxygen batteries with alkyl-carbonate and ether based electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3623-9	3.6	110

18	Sodium-Ion Storage in Pyroprotein-Based Carbon Nanoplates. <i>Advanced Materials</i> , 2015 , 27, 6914-21	24	107
17	Phase Stability Study of $\text{Li}_{1-x}\text{MnPO}_4$ (0 \leq x \leq 1) Cathode for Li Rechargeable Battery. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A635	3.9	106
16	The potential for long-term operation of a lithium-oxygen battery using a non-carbonate-based electrolyte. <i>Chemical Communications</i> , 2012 , 48, 8374-6	5.8	96
15	Multicomponent Olivine Cathode for Lithium Rechargeable Batteries: A First-Principles Study. <i>Chemistry of Materials</i> , 2010 , 22, 518-523	9.6	81
14	Superior Rechargeability and Efficiency of Lithium-Oxygen Batteries: Hierarchical Air Electrode Architecture Combined with a Soluble Catalyst. <i>Angewandte Chemie</i> , 2014 , 126, 4007-4012	3.6	80
13	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , 2017 , 2,	62.3	72
12	Synthesis of Multicomponent Olivine by a Novel Mixed Transition Metal Oxalate Coprecipitation Method and Electrochemical Characterization. <i>Chemistry of Materials</i> , 2010 , 22, 2573-2581	9.6	59
11	Mechanism of Co_3O_4 /graphene catalytic activity in LiO_2 batteries using carbonate based electrolytes. <i>Electrochimica Acta</i> , 2013 , 90, 63-70	6.7	44
10	Energy storage in composites of a redox couple host and a lithium ion host. <i>Nano Today</i> , 2012 , 7, 168-173	7.9	38
9	Lithium-excess olivine electrode for lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 2016 , 9, 2902-2915	35.4	36
8	Ion-exchange mechanism of layered transition-metal oxides: case study of $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ <i>Inorganic Chemistry</i> , 2014 , 53, 8083-7	5.1	34
7	Comparative study of $\text{Li}(\text{Li}_{1/3}\text{Ti}_{5/3})\text{O}_4$ and $\text{Li}(\text{Ni}_{1/2}\text{Li}_{2x/3}\text{Ti}_{x/3})\text{Ti}_3/2\text{O}_4$ (x=1/3) anodes for Li rechargeable batteries. <i>Electrochimica Acta</i> , 2009 , 54, 5914-5918	6.7	31
6	A safe and sustainable bacterial cellulose nanofiber separator for lithium rechargeable batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19288-19293	11.5	30
5	Understanding the effects of chemical reactions at the cathode-electrolyte interface in sulfide based all-solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22967-22976	13	30
4	A New Perspective on Li-SO ₂ Batteries for Rechargeable Systems. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9663-7	16.4	29
3	Pliable Lithium Superionic Conductor for All-Solid-State Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 2006-2015	10.1	12
2	A New Perspective on Li-SO ₂ Batteries for Rechargeable Systems. <i>Angewandte Chemie</i> , 2015 , 127, 9799-9803	9.8	9
1	Rücktitelbild: A New Perspective on Li-SO ₂ Batteries for Rechargeable Systems (Angew. Chem. 33/2015). <i>Angewandte Chemie</i> , 2015 , 127, 9860-9860	3.6	

