

Hyeokjo Gwon

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.

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	Pliable Lithium Superionic Conductor for All-Solid-State Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 2006-2015	50.1	12
34	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
33	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
32	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , 2017 , 2,	62.3	72
31	Rational design of redox mediators for advanced LiO ₂ batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	263
30	Lithium-excess olivine electrode for lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 2016 , 9, 2902-2915	35.4	36
29	Sodium-Ion Storage in Pyroprotein-Based Carbon Nanoplates. <i>Advanced Materials</i> , 2015 , 27, 6914-21	24	107
28	Review Lithium-Excess Layered Cathodes for Lithium Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2447-A2467	3.9	121
27	A New Perspective on Li-SO ₂ Batteries for Rechargeable Systems. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9663-7	16.4	29
26	A New Perspective on LiSO ₂ Batteries for Rechargeable Systems. <i>Angewandte Chemie</i> , 2015 , 127, 9799-9803	3.6	9
25	Rücktitelbild: A New Perspective on LiSO ₂ Batteries for Rechargeable Systems (Angew. Chem. 33/2015). <i>Angewandte Chemie</i> , 2015 , 127, 9860-9860	3.6	
24	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
23	Recent progress on flexible lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 538-551	35.4	314
22	Ion-exchange mechanism of layered transition-metal oxides: case study of LiNi _{0.5} Mn _{0.5} O ₂ <i>Inorganic Chemistry</i> , 2014 , 53, 8083-7	5.1	34
21	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
20	Understanding the Degradation Mechanisms of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ Cathode Material in Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1300787	21.8	709
19	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

18	Mechanism of Co ₃ O ₄ /graphene catalytic activity in LiO ₂ batteries using carbonate based electrolytes. <i>Electrochimica Acta</i> , 2013 , 90, 63-70	6.7	44
17	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
16	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
15	Sodium-oxygen batteries with alkyl-carbonate and ether based electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3623-9	3.6	110
14	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
13	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
12	A combined first principles and experimental study on Na ₃ V ₂ (PO ₄) ₂ F ₃ for rechargeable Na batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20535		253
11	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
10	Flexible energy storage devices based on graphene paper. <i>Energy and Environmental Science</i> , 2011 , 4, 1277	35.4	497
9	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
8	Multicomponent Olivine Cathode for Lithium Rechargeable Batteries: A First-Principles Study. <i>Chemistry of Materials</i> , 2010 , 22, 518-523	9.6	81
7	Structural evolution of layered Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ upon electrochemical cycling in a Li rechargeable battery. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10179		184
6	SnO ₂ /graphene composite with high lithium storage capability for lithium rechargeable batteries. <i>Nano Research</i> , 2010 , 3, 813-821	10	171
5	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
4	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
3	Comparative study of Li(Li _{1/3} Ti _{5/3})O ₄ and Li(Ni _{1/2} Li _{2x/3} Ti _{x/3})Ti _{3/2} O ₄ (x=1/3) anodes for Li rechargeable batteries. <i>Electrochimica Acta</i> , 2009 , 54, 5914-5918	6.7	31
2	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
1	Phase Stability Study of Li _{1-x} MnPO ₄ (0 ≤ x ≤ 1) Cathode for Li Rechargeable Battery. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A635	3.9	106

