

# Hyeokjo Gwon

## List of Publications by Year in descending order

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33  
papers

6,445  
citations

136740

32  
h-index

360668

35  
g-index

38  
all docs

38  
docs citations

38  
times ranked

8700  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	10.2	893
2	Flexible energy storage devices based on graphene paper. <i>Energy and Environmental Science</i> , 2011, 4, 1277.	15.6	536
3	A Novel High-Energy Hybrid Supercapacitor with an Anatase $\text{TiO}_2$ Reduced Graphene Oxide Anode and an Activated Carbon Cathode. <i>Advanced Energy Materials</i> , 2013, 3, 1500-1506.	10.2	510
4	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, 3926-3931.	7.2	407
5	Recent progress on flexible lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 2014, 7, 538-551.	15.6	355
6	Rational design of redox mediators for advanced $\text{Li-O}_2$ batteries. <i>Nature Energy</i> , 2016, 1, .	19.8	321
7	Toward a Lithium-Air-Battery: The Effect of $\text{CO}_2$ on the Chemistry of a Lithium-Oxygen Cell. <i>Journal of the American Chemical Society</i> , 2013, 135, 9733-9742.	6.6	307
8	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.	6.7	306
9	Enhanced Power and Rechargeability of a $\text{Li-O}_2$ Battery Based on a Hierarchical Fibril CNT Electrode. <i>Advanced Materials</i> , 2013, 25, 1348-1352.	11.1	299
10	Fabrication of $\text{FeF}_3$ Nanoflowers on CNT Branches and Their Application to High Power Lithium Rechargeable Batteries. <i>Advanced Materials</i> , 2010, 22, 5260-5264.	11.1	270
11	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.	6.7	211
12	Fabrication and Electrochemical Characterization of $\text{TiO}_2$ Three-Dimensional Nanonetwork Based on Peptide Assembly. <i>ACS Nano</i> , 2009, 3, 1085-1090.	7.3	195
13	$\text{SnO}_2$ /graphene composite with high lithium storage capability for lithium rechargeable batteries. <i>Nano Research</i> , 2010, 3, 813-821.	5.8	178
14	A new catalyst-embedded hierarchical air electrode for high-performance $\text{Li-O}_2$ batteries. <i>Energy and Environmental Science</i> , 2013, 6, 3570.	15.6	152
15	Review-Lithium-Excess Layered Cathodes for Lithium Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2447-A2467.	1.3	141
16	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.	7.8	121
17	Sodium-Ion Storage in Pyroprotein-Based Carbon Nanoplates. <i>Advanced Materials</i> , 2015, 27, 6914-6921.	11.1	120
18	Sodium-oxygen batteries with alkyl-carbonate and ether based electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3623.	1.3	118

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19	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.	1.3	113
20	The potential for long-term operation of a lithium-oxygen battery using a non-carbonate-based electrolyte. <i>Chemical Communications</i> , 2012, 48, 8374.	2.2	100
21	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , 2017, 2, .	19.8	94
22	Multicomponent Olivine Cathode for Lithium Rechargeable Batteries: A First-Principles Study. <i>Chemistry of Materials</i> , 2010, 22, 518-523.	3.2	91
23	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.	5.2	80
24	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.	3.2	66
25	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.	3.3	57
26	Lithium-excess olivine electrode for lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 2016, 9, 2902-2915.	15.6	49
27	Mechanism of $\text{Co}_3\text{O}_4$ /graphene catalytic activity in $\text{Li-O}_2$ batteries using carbonate based electrolytes. <i>Electrochimica Acta</i> , 2013, 90, 63-70.	2.6	48
28	Pliable Lithium Superionic Conductor for All-Solid-State Batteries. <i>ACS Energy Letters</i> , 2021, 6, 2006-2015.	8.8	46
29	Energy storage in composites of a redox couple host and a lithium ion host. <i>Nano Today</i> , 2012, 7, 168-173.	6.2	44
30	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, 8083-8087.	1.9	43
31	A New Perspective on $\text{Li-SO}_2$ Batteries for Rechargeable Systems. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9663-9667.	7.2	37
32	Comparative study of $\text{Li}(\text{Li}_{1/3}\text{Ti}_{5/3})\text{O}_4$ and $\text{Li}(\text{Ni}_{1/2}\text{Li}_{2/3}\text{Ti}_{1/3})\text{Ti}_3\text{O}_4$ ( $x = 1/3$ ) anodes for Li rechargeable batteries. <i>Electrochimica Acta</i> , 2009, 54, 5914-5918.	2.6	32
33	 A New Perspective on $\text{Li-SO}_2$ Batteries for Rechargeable Systems ( <i>Angew. Chem.</i> 33/2015). <i>Angewandte Chemie</i> , 2015, 127, 9860-9860.	1.6	0