

# Gabin Yoon

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1278212/gabin-yoon-publications-by-year.pdf>

**Version:** 2024-04-27

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.

56  
papers

3,903  
citations

31  
h-index

60  
g-index

60  
ext. papers

4,686  
ext. citations

16.1  
avg. IF

5.55  
L-index

#	Paper	IF	Citations
56	High-energy and durable lithium metal batteries using garnet-type solid electrolytes with tailored lithium-metal compatibility.. <i>Nature Communications</i> , <b>2022</b> , 13, 1883	17.4	14
55	Carbon-free high-performance cathode for solid-state Li-O battery.. <i>Science Advances</i> , <b>2022</b> , 8, eabm8584	14.3	4
54	Electrochemical Deposition and Stripping Behavior of Li Metal. <i>Springer Theses</i> , <b>2022</b> , 47-65	0.1	
53	Na Intercalation Chemistry in Graphite. <i>Springer Theses</i> , <b>2022</b> , 9-27	0.1	
52	Conditions for Reversible Na Intercalation in Graphite. <i>Springer Theses</i> , <b>2022</b> , 29-45	0.1	
51	Pliable Lithium Superionic Conductor for All-Solid-State Batteries. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2006-2015	15.0	12
50	A new high-voltage calcium intercalation host for ultra-stable and high-power calcium rechargeable batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 3369	17.4	13
49	An exceptionally large energy cathode with the $\text{KBO}_4/\text{Cu}$ conversion reaction for potassium rechargeable batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 5475-5484	13	1
48	Anionic Redox Activity Regulated by Transition Metal in Lithium-Rich Layered Oxides. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001207	21.8	19
47	The Role of Interlayer Chemistry in Li-Metal Growth through a Garnet-Type Solid Electrolyte. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903993	21.8	62
46	Calcium-Ion Batteries: Stable and High-Power Calcium-Ion Batteries Enabled by Calcium Intercalation into Graphite (Adv. Mater. 4/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070029	24	2
45	Voltage decay and redox asymmetry mitigation by reversible cation migration in lithium-rich layered oxide electrodes. <i>Nature Materials</i> , <b>2020</b> , 19, 419-427	27	171
44	A new lithium diffusion model in layered oxides based on asymmetric but reversible transition metal migration. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1269-1278	35.4	20
43	Stable and High-Power Calcium-Ion Batteries Enabled by Calcium Intercalation into Graphite. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904411	24	52
42	Surface enriched graphene hollow spheres towards building ultra-high power sodium-ion capacitor with long durability. <i>Energy Storage Materials</i> , <b>2020</b> , 25, 702-713	19.4	24
41	A bifunctional auxiliary electrode for safe lithium metal batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 24807-24813	13	3
40	Tailoring sodium intercalation in graphite for high energy and power sodium ion batteries. <i>Nature Communications</i> , <b>2019</b> , 10, 2598	17.4	115

39	Charge-transfer complexes for high-power organic rechargeable batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 20, 462-469	19.4	42
38	Pseudocapacitive Behavior and Ultrafast Kinetics from Solvated Ion Cointercalation into MoS <sub>2</sub> for Its Alkali Ion Storage. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 3726-3735	6.1	2
37	Chemical Origins of Electrochemical Overpotential in Surface-Conversion Nanocomposite Cathodes. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900503	21.8	4
36	Graphitic Carbon Materials for Advanced Sodium-Ion Batteries. <i>Small Methods</i> , <b>2019</b> , 3, 1800227	12.8	56
35	Suppression of Voltage Decay through Manganese Deactivation and Nickel Redox Buffering in High-Energy Layered Lithium-Rich Electrodes. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800606	21.8	54
34	Atomistic Investigation of Doping Effects on Electrocatalytic Properties of Cobalt Oxides for Water Oxidation. <i>Advanced Science</i> , <b>2018</b> , 5, 1801632	13.6	9
33	Deposition and Stripping Behavior of Lithium Metal in Electrochemical System: Continuum Mechanics Study. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 6769-6776	9.6	52
32	Engineering Solid Electrolyte Interphase for Pseudocapacitive Anatase TiO <sub>2</sub> Anodes in Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802099	15.6	83
31	Na <sub>3</sub> V(PO <sub>4</sub> ) <sub>2</sub> : A New Layered-Type Cathode Material with High Water Stability and Power Capability for Na-Ion Batteries. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3683-3689	9.6	33
30	Extremely large, non-oxidized graphene flakes based on spontaneous solvent insertion into graphite intercalation compounds. <i>Carbon</i> , <b>2018</b> , 139, 309-316	10.4	17
29	Native Defects in Li <sub>10</sub> GeP <sub>2</sub> S <sub>12</sub> and Their Effect on Lithium Diffusion. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4995-5004	9.6	26
28	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	72
27	Large-Scale Synthesis of Carbon-Shell-Coated FeP Nanoparticles for Robust Hydrogen Evolution Reaction Electrocatalyst. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 6669-6674	16.4	369
26	Activating layered LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> as a host for Mg intercalation in rechargeable Mg batteries. <i>Materials Research Bulletin</i> , <b>2017</b> , 96, 524-532	5.1	10
25	Exploiting Lithium Ether Co-Intercalation in Graphite for High-Power Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700418	21.8	73
24	Amorphous Cobalt Phyllosilicate with Layered Crystalline Motifs as Water Oxidation Catalyst. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606893	24	57
23	Simple and Effective Gas-Phase Doping for Lithium Metal Protection in Lithium Metal Batteries. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9182-9191	9.6	25
22	New 4V-Class and Zero-Strain Cathode Material for Na-Ion Batteries. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7826-7832	9.6	46

21	In Situ Tracking Kinetic Pathways of Li/Na Substitution during Ion-Exchange Synthesis of LiNaVOPOF. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 12504-12516	16.4	18
20	Using First-Principles Calculations for the Advancement of Materials for Rechargeable Batteries. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702887	15.6	25
19	Conditions for Reversible Na Intercalation in Graphite: Theoretical Studies on the Interplay Among Guest Ions, Solvent, and Graphite Host. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601519	21.8	151
18	Recent Progress in Electrode Materials for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600943	21.8	686
17	Understanding Origin of Voltage Hysteresis in Conversion Reaction for Na Rechargeable Batteries: The Case of Cobalt Oxides. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5042-5050	15.6	54
16	Restoration of thermally reduced graphene oxide by atomic-level selenium doping. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e338-e338	10.3	31
15	A comparative study of graphite electrodes using the co-intercalation phenomenon for rechargeable Li, Na and K batteries. <i>Chemical Communications</i> , <b>2016</b> , 52, 12618-12621	5.8	74
14	Highly Stable Iron- and Manganese-Based Cathodes for Long-Lasting Sodium Rechargeable Batteries. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7241-7249	9.6	43
13	Lithium-excess olivine electrode for lithium rechargeable batteries. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2902-2915	35.4	36
12	Factors Affecting the Exfoliation of Graphite Intercalation Compounds for Graphene Synthesis. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 2067-2073	9.6	50
11	Moisture Barrier Composites Made of Non-Oxidized Graphene Flakes. <i>Small</i> , <b>2015</b> , 11, 3124-9	11	37
10	Sodium intercalation chemistry in graphite. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2963-2969	35.4	287
9	Ordered-mesoporous Nb <sub>2</sub> O <sub>5</sub> /carbon composite as a sodium insertion material. <i>Nano Energy</i> , <b>2015</b> , 16, 62-70	17.1	104
8	Anomalous Jahn-Teller behavior in a manganese-based mixed-phosphate cathode for sodium ion batteries. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3325-3335	35.4	114
7	Hierarchical surface atomic structure of a manganese-based spinel cathode for lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 1153-8	16.4	58
6	Hierarchical Surface Atomic Structure of a Manganese-Based Spinel Cathode for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 1169-1174	3.6	13
5	Theoretical Evidence for Low Charging Overpotentials of Superoxide Discharge Products in Metal-Oxygen Batteries. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 8406-8413	9.6	51
4	Highly Durable and Active PtFe Nanocatalyst for Electrochemical Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 15478-85	16.4	393

- |   |   |      |    |
|---|---|------|----|
| 3 | The Reaction Mechanism and Capacity Degradation Model in Lithium Insertion Organic Cathodes, Li <sub>2</sub> C <sub>6</sub> O <sub>6</sub> , Using Combined Experimental and First Principle Studies. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3086-92 | 6.4  | 71 |
| 2 | High-performance supercapacitors based on defect-engineered carbon nanotubes. <i>Carbon</i> , <b>2014</b> , 80, 246-254   | 10.4 | 59 |
| 1 | High-Dielectric Polymer Coating for Uniform Lithium Deposition in Anode-Free Lithium Batteries. <i>ACS Energy Letters</i> , 4416-4425   | 20.1 | 6  |