

# Gabin Yoon

## List of Publications by Citations

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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	Recent Progress in Electrode Materials for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600943	21.8	686
55	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
54	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
53	Sodium intercalation chemistry in graphite. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2963-2969	35.4	287
52	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
51	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
50	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
49	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
48	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
47	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
46	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
45	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
44	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	72
43	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
42	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
41	High-performance supercapacitors based on defect-engineered carbon nanotubes. <i>Carbon</i> , <b>2014</b> , 80, 246-254	10.4	59
40	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

39	Amorphous Cobalt Phyllosilicate with Layered Crystalline Motifs as Water Oxidation Catalyst. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606893	24	57
38	Graphitic Carbon Materials for Advanced Sodium-Ion Batteries. <i>Small Methods</i> , <b>2019</b> , 3, 1800227	12.8	56
37	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
36	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
35	Stable and High-Power Calcium-Ion Batteries Enabled by Calcium Intercalation into Graphite. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904411	24	52
34	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
33	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
32	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
31	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
30	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
29	Charge-transfer complexes for high-power organic rechargeable batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 20, 462-469	19.4	42
28	Moisture Barrier Composites Made of Non-Oxidized Graphene Flakes. <i>Small</i> , <b>2015</b> , 11, 3124-9	11	37
27	Lithium-excess olivine electrode for lithium rechargeable batteries. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2902-2915	35.4	36
26	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
25	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
24	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
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	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

21	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
20	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
19	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
18	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
17	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
16	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
15	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
14	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
13	Pliable Lithium Superionic Conductor for All-Solid-State Batteries. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2006-2015	50.1	12
12	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
11	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
10	High-Dielectric Polymer Coating for Uniform Lithium Deposition in Anode-Free Lithium Batteries. <i>ACS Energy Letters</i> , 4416-4425	20.1	6
9	Chemical Origins of Electrochemical Overpotential in Surface-Conversion Nanocomposite Cathodes. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900503	21.8	4
8	Carbon-free high-performance cathode for solid-state Li-O battery.. <i>Science Advances</i> , <b>2022</b> , 8, eabm8584	44.3	4
7	A bifunctional auxiliary electrode for safe lithium metal batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 24807-24813	13	3
6	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
5	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
4	An exceptionally large energy cathode with the KBO <sub>4</sub> Cu conversion reaction for potassium rechargeable batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 5475-5484	13	1

- 3 Electrochemical Deposition and Stripping Behavior of Li Metal. *Springer Theses*, **2022**, 47-65 0.1
- 2 Na Intercalation Chemistry in Graphite. *Springer Theses*, **2022**, 9-27 0.1
- 1 Conditions for Reversible Na Intercalation in Graphite. *Springer Theses*, **2022**, 29-45 0.1