

Gabin Yoon

List of Publications by Year in descending order

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53
papers

5,530
citations

87843

38
h-index

168321

53
g-index

60
all docs

60
docs citations

60
times ranked

7753
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress in Electrode Materials for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600943.	10.2	815
2	Highly Durable and Active PtFe Nanocatalyst for Electrochemical Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2015, 137, 15478-15485.	6.6	517
3	Large-Scale Synthesis of Carbon-Shell-Coated FeP Nanoparticles for Robust Hydrogen Evolution Reaction Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2017, 139, 6669-6674.	6.6	451
4	Sodium intercalation chemistry in graphite. <i>Energy and Environmental Science</i> , 2015, 8, 2963-2969.	15.6	369
5	Voltage decay and redox asymmetry mitigation by reversible cation migration in lithium-rich layered oxide electrodes. <i>Nature Materials</i> , 2020, 19, 419-427.	13.3	328
6	Conditions for Reversible Na Intercalation in Graphite: Theoretical Studies on the Interplay Among Guest Ions, Solvent, and Graphite Host. <i>Advanced Energy Materials</i> , 2017, 7, 1601519.	10.2	219
7	Tailoring sodium intercalation in graphite for high energy and power sodium ion batteries. <i>Nature Communications</i> , 2019, 10, 2598.	5.8	195
8	Anomalous Jahn-Teller behavior in a manganese-based mixed-phosphate cathode for sodium ion batteries. <i>Energy and Environmental Science</i> , 2015, 8, 3325-3335.	15.6	175
9	Ordered-mesoporous Nb ₂ O ₅ /carbon composite as a sodium insertion material. <i>Nano Energy</i> , 2015, 16, 62-70.	8.2	124
10	Exploiting Lithium-Ether Co-Intercalation in Graphite for High-Power Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1700418.	10.2	122
11	The Role of Interlayer Chemistry in Li-Metal Growth through a Garnet-Type Solid Electrolyte. <i>Advanced Energy Materials</i> , 2020, 10, 1903993.	10.2	119
12	Engineering Solid Electrolyte Interphase for Pseudocapacitive Anatase TiO ₂ Anodes in Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1802099.	7.8	106
13	A comparative study of graphite electrodes using the co-intercalation phenomenon for rechargeable Li, Na and K batteries. <i>Chemical Communications</i> , 2016, 52, 12618-12621.	2.2	99
14	Suppression of Voltage Decay through Manganese Deactivation and Nickel Redox Buffering in High-Energy Layered Lithium-Rich Electrodes. <i>Advanced Energy Materials</i> , 2018, 8, 1800606.	10.2	97
15	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. <i>Nature Energy</i> , 2017, 2, .	19.8	94
16	Stable and High-Power Calcium-Ion Batteries Enabled by Calcium Intercalation into Graphite. <i>Advanced Materials</i> , 2020, 32, e1904411.	11.1	87
17	Amorphous Cobalt Phyllosilicate with Layered Crystalline Motifs as Water Oxidation Catalyst. <i>Advanced Materials</i> , 2017, 29, 1606893.	11.1	84
18	The Reaction Mechanism and Capacity Degradation Model in Lithium Insertion Organic Cathodes, Li ₂ C ₆ O ₆ , Using Combined Experimental and First Principle Studies. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3086-3092.	2.1	81

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19	Graphitic Carbon Materials for Advanced Sodium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1800227.	4.6	81
20	Deposition and Stripping Behavior of Lithium Metal in Electrochemical System: Continuum Mechanics Study. <i>Chemistry of Materials</i> , 2018, 30, 6769-6776.	3.2	74
21	Charge-transfer complexes for high-power organic rechargeable batteries. <i>Energy Storage Materials</i> , 2019, 20, 462-469.	9.5	70
22	High-performance supercapacitors based on defect-engineered carbon nanotubes. <i>Carbon</i> , 2014, 80, 246-254.	5.4	68
23	Hierarchical Surface Atomic Structure of a Manganese-Based Spinel Cathode for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1153-1158.	7.2	68
24	High-energy and durable lithium metal batteries using garnet-type solid electrolytes with tailored lithium-metal compatibility. <i>Nature Communications</i> , 2022, 13, 1883.	5.8	67
25	Highly Stable Iron- and Manganese-Based Cathodes for Long-Lasting Sodium Rechargeable Batteries. <i>Chemistry of Materials</i> , 2016, 28, 7241-7249.	3.2	66
26	Factors Affecting the Exfoliation of Graphite Intercalation Compounds for Graphene Synthesis. <i>Chemistry of Materials</i> , 2015, 27, 2067-2073.	3.2	65
27	High-Dielectric Polymer Coating for Uniform Lithium Deposition in Anode-Free Lithium Batteries. <i>ACS Energy Letters</i> , 2021, 6, 4416-4425.	8.8	63
28	Understanding Origin of Voltage Hysteresis in Conversion Reaction for Na Rechargeable Batteries: The Case of Cobalt Oxides. <i>Advanced Functional Materials</i> , 2016, 26, 5042-5050.	7.8	61
29	New 4V-Class and Zero-Strain Cathode Material for Na-Ion Batteries. <i>Chemistry of Materials</i> , 2017, 29, 7826-7832.	3.2	61
30	Theoretical Evidence for Low Charging Overpotentials of Superoxide Discharge Products in Metal-Oxygen Batteries. <i>Chemistry of Materials</i> , 2015, 27, 8406-8413.	3.2	59
31	A new high-voltage calcium intercalation host for ultra-stable and high-power calcium rechargeable batteries. <i>Nature Communications</i> , 2021, 12, 3369.	5.8	59
32	Lithium-excess olivine electrode for lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 2016, 9, 2902-2915.	15.6	49
33	Pliable Lithium Superionic Conductor for All-Solid-State Batteries. <i>ACS Energy Letters</i> , 2021, 6, 2006-2015.	8.8	46
34	Restoration of thermally reduced graphene oxide by atomic-level selenium doping. <i>NPG Asia Materials</i> , 2016, 8, e338-e338.	3.8	45
35	Anionic Redox Activity Regulated by Transition Metal in Lithium-Rich Layered Oxides. <i>Advanced Energy Materials</i> , 2020, 10, 2001207.	10.2	45
36	Moisture Barrier Composites Made of Non-Oxidized Graphene Flakes. <i>Small</i> , 2015, 11, 3124-3129.	5.2	41

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37	Na ₃ V(PO ₄) ₂ : A New Layered-Type Cathode Material with High Water Stability and Power Capability for Na-Ion Batteries. Chemistry of Materials, 2018, 30, 3683-3689.	3.2	41
38	Using First-Principles Calculations for the Advancement of Materials for Rechargeable Batteries. Advanced Functional Materials, 2017, 27, 1702887.	7.8	40
39	Surface enriched graphene hollow spheres towards building ultra-high power sodium-ion capacitor with long durability. Energy Storage Materials, 2020, 25, 702-713.	9.5	39
40	A new lithium diffusion model in layered oxides based on asymmetric but reversible transition metal migration. Energy and Environmental Science, 2020, 13, 1269-1278.	15.6	39
41	Native Defects in Li ₁₀ GeP ₂ S ₁₂ and Their Effect on Lithium Diffusion. Chemistry of Materials, 2018, 30, 4995-5004.	3.2	33
42	Simple and Effective Gas-Phase Doping for Lithium Metal Protection in Lithium Metal Batteries. Chemistry of Materials, 2017, 29, 9182-9191.	3.2	32
43	<i>In Situ</i> Tracking Kinetic Pathways of Li ⁺ /Na ⁺ Substitution during Ion-Exchange Synthesis of Li _{1.5} VOPO ₄ F _{0.5} . Journal of the American Chemical Society, 2017, 139, 12504-12516.	6.6	28
44	Extremely large, non-oxidized graphene flakes based on spontaneous solvent insertion into graphite intercalation compounds. Carbon, 2018, 139, 309-316.	5.4	23
45	Atomistic Investigation of Doping Effects on Electrocatalytic Properties of Cobalt Oxides for Water Oxidation. Advanced Science, 2018, 5, 1801632.	5.6	17
46	Carbon-free high-performance cathode for solid-state Li-O ₂ battery. Science Advances, 2022, 8, eabm8584.	4.7	15
47	Activating layered LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ as a host for Mg intercalation in rechargeable Mg batteries. Materials Research Bulletin, 2017, 96, 524-532.	2.7	14
48	Pseudocapacitive Behavior and Ultrafast Kinetics from Solvated Ion Cointercalation into MoS ₂ for Its Alkali Ion Storage. ACS Applied Energy Materials, 2019, 2, 3726-3735.	2.5	9
49	Chemical Origins of Electrochemical Overpotential in Surface Conversion Nanocomposite Cathodes. Advanced Energy Materials, 2019, 9, 1900503.	10.2	6
50	A bifunctional auxiliary electrode for safe lithium metal batteries. Journal of Materials Chemistry A, 2019, 7, 24807-24813.	5.2	4
51	Calcium-Ion Batteries: Stable and High-Power Calcium-Ion Batteries Enabled by Calcium Intercalation into Graphite (Adv. Mater. 4/2020). Advanced Materials, 2020, 32, 2070029.	11.1	3
52	An exceptionally large energy cathode with the "SO ₄ "-Cu conversion reaction for potassium rechargeable batteries. Journal of Materials Chemistry A, 2021, 9, 5475-5484.	5.2	3
53	Structural Effect on the Oxygen Evolution Reaction in the Electrochemical Catalyst FePt. New Physics: Sae Mulli, 2015, 65, 878-882.	0.0	0