Gi-Hyeok Lee

List of Publications by Year
in descending order

32 papers	2,818 citations	304743 22 h-index	414414 32 g-index
32 all docs	32 docs citations	32 times ranked	3721 citing authors

#	ARTICLE	IF	CITATIONS
1	Urchinâ€Like CoSe₂ as a Highâ€Performance Anode Material for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2016, 26, 6728-6735.	14.9	471
2	Cobaltâ€Doped FeS₂ Nanospheres with Complete Solid Solubility as a Highâ€Performance Anode Material for Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 12822-12826.	13.8	394
3	Recent Developments of the Lithium Metal Anode for Rechargeable Nonâ€Aqueous Batteries. Advanced Energy Materials, 2016, 6, 1600811.	19.5	306
4	Cobaltâ€Doped FeS₂ Nanospheres with Complete Solid Solubility as a Highâ€Performance Anode Material for Sodiumâ€Ion Batteries. Angewandte Chemie, 2016, 128, 13014-13018.	2.0	268
5	Carbonâ€Coated Si Nanoparticles Anchored between Reduced Graphene Oxides as an Extremely Reversible Anode Material for High Energyâ€Density Liâ€Ion Battery. Advanced Energy Materials, 2016, 6, 1600904.	19.5	256
6	Tuning local chemistry of P2 layered-oxide cathode for high energy and long cycles of sodium-ion battery. Nature Communications, 2021, 12, 2256.	12.8	183
7	Bifunctional Conducting Polymer Coated CoP Coreâ€“Shell Nanowires on Carbon Paper as a Freeâ€Standing Anode for Sodium Ion Batteries. Advanced Energy Materials, 2018, 8, 1800283.	19.5	104
8	Cobalt phosphide nanoparticles embedded in nitrogen-doped carbon nanosheets: Promising anode material with high rate capability and long cycle life for sodium-ion batteries. Nano Research, 2017, 10, 4337-4350.	10.4	97
9	Activating a Multielectron Reaction of NASICON-Structured Cathodes toward High Energy Density for Sodium-Ion Batteries. Journal of the American Chemical Society, 2021, 143, 18091-18102.	13.7	96
10	Reversible Anionic Redox Activities in Conventional LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Cathodes. Angewandte Chemie - International Edition, 2020, 59, 8681-8688.	13.8	91
11	Synergistic Catalysis of the Lattice Oxygen and Transition Metal Facilitating ORR and OER in Perovskite Catalysts for Liâ€“O₂ Batteries. ACS Catalysis, 2021, 11, 424-434.	11.2	72
12	A reduced graphene oxide-encapsulated phosphorus/carbon composite as a promising anode material for high-performance sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 3683-3690.	10.3	54
13	P2/O3 phase-integrated Na0.7MnO2 cathode materials for sodium-ion rechargeable batteries. Journal of Alloys and Compounds, 2019, 771, 987-993.	5.5	45
14	Utilizing Oxygen Redox in Layered Cathode Materials from Multiscale Perspective. Advanced Energy Materials, 2021, 11, 2003227.	19.5	39
15	The origin of heavy element doping to relieve the lattice thermal vibration of layered materials for high energy density Li ion cathodes. Journal of Materials Chemistry A, 2020, 8, 12424-12435.	10.3	37
16	Uncommon Behavior of Li Doping Suppresses Oxygen Redox in P2â€Type Manganeseâ€Rich Sodium Cathodes. Advanced Materials, 2021, 33, e2107141.	21.0	34
17	GeP3 with soft and tunable bonding nature enabling highly reversible alloying with Na ions. Materials Today Energy, 2018, 9, 126-136.	4.7	31
18	The synergistic effect of nitrogen doping and para-phenylenediamine functionalization on the physicochemical properties of reduced graphene oxide for electric double layer supercapacitors in organic electrolytes. Journal of Materials Chemistry A, 2017, 5, 12426-12434.	10.3	30

#	Article	IF	Citations
19	Engineering Solid Electrolyte Interphase on Red Phosphorus for Long-Term and High-Capacity Sodium Storage. Chemistry of Materials, 2020, 32, 448-458.	6.7	29
20	Fe3O4 nanoparticles encapsulated in one-dimensional Li4Ti5O12 nanomatrix: An extremely reversible anode for long life and high capacity Li-ion batteries. Nano Energy, 2016, 19, 246-256.	16.0	28
21	Controlling Solid-Electrolyte-Interphase Layer by Coating P-Type Semiconductor NiO_{<i>x</i>} on Li₄Ti₅O₁₂ for High-Energy-Density Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 27934-27939.	8.0	26
22	Controlling the Valence State of Cu Dopant in Î±-Fe2O3 Anodes: Effects on Crystal Structure and the Conversion Reactions with Alkali Ions. Chemistry of Materials, 2019, 31, 1268-1279.	6.7	23
23	Regulating Pseudo-Jahnâ€“Teller Effect and Superstructure in Layered Cathode Materials for Reversible Alkali-Ion Intercalation. Journal of the American Chemical Society, 2022, 144, 7929-7938.	13.7	22
24	Thermally Activated P2â€O3 Mixed Layered Cathodes toward Synergistic Electrochemical Enhancement for Na Ion Batteries. Advanced Energy Materials, 2021, 11, 2102444.	19.5	17
25	Reversible Anionic Redox Activities in Conventional LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Cathodes. Angewandte Chemie, 2020, 132, 8759-8766.	2.0	15
26	Microstructural Investigation into Na-Ion Storage Behaviors of Cellulose-Based Hard Carbons for Na-Ion Batteries. Journal of Physical Chemistry C, 2021, 125, 14559-14566.	3.1	15
27	Electrochemical grinding-induced metallic assembly exploiting a facile conversion reaction route of metal oxides toward Li ions. Acta Materialia, 2021, 211, 116863.	7.9	12
28	Bifunctional Li 4 Ti 5 O 12 coating layer for the enhanced kinetics and stability of carbon anode for lithium rechargeable batteries. Journal of Alloys and Compounds, 2014, 615, 220-226.	5.5	5
29	Precipitates shape up. Nature Chemistry, 2019, 11, 685-686.	13.6	5
30	Direct Cationâ€“Cation Interactions Induced by Mg Dopants for Electronâ€“Gas Behavior in Î±-Fe₂O₃. Journal of Physical Chemistry C, 2021, 125, 12893-12902.	3.1	5
31	Origin of enhanced reversible Na ion storage in hard carbon anodes through p-type molecular doping. Journal of Materials Chemistry A, 2022, 10, 16506-16513.	10.3	5
32	Steric modulation of Na2Ti2O3(SiO4)Â·2H2O toward highly reversible Na ion intercalation/deintercalation for Na ion batteries. Chemical Engineering Journal, 2022, 431, 133245.	12.7	3