

Gi-Hyeok Lee

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Steric modulation of Na ₂ Ti ₂ O ₃ (SiO ₄)·2H ₂ O toward highly reversible Na ion intercalation/deintercalation for Na ion batteries. <i>Chemical Engineering Journal</i> , 2022, 431, 133245. | 12.7 | 3 |
| 2 | Regulating Pseudo-Jahn-Teller Effect and Superstructure in Layered Cathode Materials for Reversible Alkali-Ion Intercalation. <i>Journal of the American Chemical Society</i> , 2022, 144, 7929-7938. | 13.7 | 22 |
| 3 | Origin of enhanced reversible Na ion storage in hard carbon anodes through p-type molecular doping. <i>Journal of Materials Chemistry A</i> , 2022, 10, 16506-16513. | 10.3 | 5 |
| 4 | Utilizing Oxygen Redox in Layered Cathode Materials from Multiscale Perspective. <i>Advanced Energy Materials</i> , 2021, 11, 2003227. | 19.5 | 39 |
| 5 | Tuning local chemistry of P2 layered-oxide cathode for high energy and long cycles of sodium-ion battery. <i>Nature Communications</i> , 2021, 12, 2256. | 12.8 | 183 |
| 6 | Direct Cation-Cation Interactions Induced by Mg Dopants for Electron-Gas Behavior in $\text{Li}_{\pm}\text{Fe}_{\text{2}}\text{O}_{\text{3}}$. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12893-12902. | 3.1 | 5 |
| 7 | Electrochemical grinding-induced metallic assembly exploiting a facile conversion reaction route of metal oxides toward Li ions. <i>Acta Materialia</i> , 2021, 211, 116863. | 7.9 | 12 |
| 8 | Microstructural Investigation into Na-Ion Storage Behaviors of Cellulose-Based Hard Carbons for Na-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14559-14566. | 3.1 | 15 |
| 9 | Synergistic Catalysis of the Lattice Oxygen and Transition Metal Facilitating ORR and OER in Perovskite Catalysts for $\text{Li}_{\pm}\text{O}_{\text{2}}$ Batteries. <i>ACS Catalysis</i> , 2021, 11, 424-434. | 11.2 | 72 |
| 10 | Uncommon Behavior of Li Doping Suppresses Oxygen Redox in P2-Type Manganese-Rich Sodium Cathodes. <i>Advanced Materials</i> , 2021, 33, e2107141. | 21.0 | 34 |
| 11 | Thermally Activated P2 O_{3} Mixed Layered Cathodes toward Synergistic Electrochemical Enhancement for Na Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2102444. | 19.5 | 17 |
| 12 | Activating a Multielectron Reaction of NASICON-Structured Cathodes toward High Energy Density for Sodium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2021, 143, 18091-18102. | 13.7 | 96 |
| 13 | Engineering Solid Electrolyte Interphase on Red Phosphorus for Long-Term and High-Capacity Sodium Storage. <i>Chemistry of Materials</i> , 2020, 32, 448-458. | 6.7 | 29 |
| 14 | The origin of heavy element doping to relieve the lattice thermal vibration of layered materials for high energy density Li ion cathodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12424-12435. | 10.3 | 37 |
| 15 | Reversible Anionic Redox Activities in Conventional $\text{LiNi}_{\text{1/3}}\text{Co}_{\text{1/3}}\text{Mn}_{\text{1/3}}\text{O}_{\text{2}}$ Cathodes. <i>Angewandte Chemie</i> , 2020, 132, 8759-8766. | 2.0 | 15 |
| 16 | Reversible Anionic Redox Activities in Conventional $\text{LiNi}_{\text{1/3}}\text{Co}_{\text{1/3}}\text{Mn}_{\text{1/3}}\text{O}_{\text{2}}$ Cathodes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8681-8688. | 13.8 | 91 |
| 17 | Precipitates shape up. <i>Nature Chemistry</i> , 2019, 11, 685-686. | 13.6 | 5 |
| 18 | Controlling the Valence State of Cu Dopant in $\text{Li}_{\pm}\text{Fe}_{\text{2}}\text{O}_{\text{3}}$ Anodes: Effects on Crystal Structure and the Conversion Reactions with Alkali Ions. <i>Chemistry of Materials</i> , 2019, 31, 1268-1279. | 6.7 | 23 |

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|----|--|------|-----------|
| 19 | P2/O3 phase-integrated Na _{0.7} MnO ₂ cathode materials for sodium-ion rechargeable batteries. Journal of Alloys and Compounds, 2019, 771, 987-993. | 5.5 | 45 |
| 20 | Bifunctional Conducting Polymer Coated CoP Core-Shell Nanowires on Carbon Paper as a Free-Standing Anode for Sodium Ion Batteries. Advanced Energy Materials, 2018, 8, 1800283. | 19.5 | 104 |
| 21 | GeP ₃ with soft and tunable bonding nature enabling highly reversible alloying with Na ions. Materials Today Energy, 2018, 9, 126-136. | 4.7 | 31 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | Urchin-Like CoSe ₂ as a High-Performance Anode Material for Sodium-Ion Batteries. Advanced Functional Materials, 2016, 26, 6728-6735. | 14.9 | 471 |
| 26 | Carbon-Coated Si Nanoparticles Anchored between Reduced Graphene Oxides as an Extremely Reversible Anode Material for High Energy-Density Li-Ion Battery. Advanced Energy Materials, 2016, 6, 1600904. | 19.5 | 256 |
| 27 | Cobalt-Doped FeS ₂ Nanospheres with Complete Solid Solubility as a High-Performance Anode Material for Sodium-Ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 12822-12826. | 13.8 | 394 |
| 28 | Cobalt-Doped FeS ₂ Nanospheres with Complete Solid Solubility as a High-Performance Anode Material for Sodium-Ion Batteries. Angewandte Chemie, 2016, 128, 13014-13018. | 2.0 | 268 |
| 29 | Recent Developments of the Lithium Metal Anode for Rechargeable Non-Aqueous Batteries. Advanced Energy Materials, 2016, 6, 1600811. | 19.5 | 306 |
| 30 | Fe ₃ O ₄ nanoparticles encapsulated in one-dimensional Li ₄ Ti ₅ O ₁₂ nanomatrix: An extremely reversible anode for long life and high capacity Li-ion batteries. Nano Energy, 2016, 19, 246-256. | 16.0 | 28 |
| 31 | Controlling Solid-Electrolyte-Interphase Layer by Coating P-Type Semiconductor NiO _x on Li ₄ Ti ₅ O ₁₂ for High-Energy-Density Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 27934-27939. | 8.0 | 26 |
| 32 | 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 |