

Jaegeon Ryu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

1,184
citations

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h-index

34
g-index

39
ext. papers

1,408
ext. citations

12.2
avg, IF

4.81
L-index

| # | Paper | IF | Citations |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 35 | Synthesis of Ultrathin Si Nanosheets from Natural Clays for Lithium-Ion Battery Anodes. <i>ACS Nano</i> , 2016 , 10, 2843-51 | 16.7 | 216 |
| 34 | Folding Graphene Film Yields High Areal Energy Storage in Lithium-Ion Batteries. <i>ACS Nano</i> , 2018 , 12, 1739-1746 | 16.7 | 94 |
| 33 | Ultrafast-Charging Silicon-Based Coral-Like Network Anodes for Lithium-Ion Batteries with High Energy and Power Densities. <i>ACS Nano</i> , 2019 , 13, 2307-2315 | 16.7 | 93 |
| 32 | Multiscale Hyperporous Silicon Flake Anodes for High Initial Coulombic Efficiency and Cycle Stability. <i>ACS Nano</i> , 2016 , 10, 10589-10597 | 16.7 | 81 |
| 31 | Practical considerations of Si-based anodes for lithium-ion battery applications. <i>Nano Research</i> , 2017 , 10, 3970-4002 | 10 | 70 |
| 30 | Mechanical mismatch-driven rippling in carbon-coated silicon sheets for stress-resilient battery anodes. <i>Nature Communications</i> , 2018 , 9, 2924 | 17.4 | 69 |
| 29 | Revisit of metallothermic reduction for macroporous Si: compromise between capacity and volume expansion for practical Li-ion battery. <i>Nano Energy</i> , 2015 , 12, 161-168 | 17.1 | 54 |
| 28 | Room-Temperature Crosslinkable Natural Polymer Binder for High-Rate and Stable Silicon Anodes. <i>Advanced Functional Materials</i> , 2020 , 30, 1908433 | 15.6 | 52 |
| 27 | All-in-one synthesis of mesoporous silicon nanosheets from natural clay and their applicability to hydrogen evolution. <i>NPG Asia Materials</i> , 2016 , 8, e248-e248 | 10.3 | 45 |
| 26 | Infinitesimal sulfur fusion yields quasi-metallic bulk silicon for stable and fast energy storage. <i>Nature Communications</i> , 2019 , 10, 2351 | 17.4 | 37 |
| 25 | Nanotubular structured Si-based multicomponent anodes for high-performance lithium-ion batteries with controllable pore size via coaxial electro-spinning. <i>Nanoscale</i> , 2015 , 7, 6126-35 | 7.7 | 36 |
| 24 | Atomic-scale combination of germanium-zinc nanofibers for structural and electrochemical evolution. <i>Nature Communications</i> , 2019 , 10, 2364 | 17.4 | 29 |
| 23 | Lithium Accommodation in a Redox-Active Covalent Triazine Framework for High Areal Capacity and Fast-Charging Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2003761 | 15.6 | 29 |
| 22 | A Game Changer: Functional Nano/Micromaterials for Smart Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1902499 | 15.6 | 28 |
| 21 | Synthesis of dual porous structured germanium anodes with exceptional lithium-ion storage performance. <i>Journal of Power Sources</i> , 2018 , 374, 217-224 | 8.9 | 28 |
| 20 | Revealing salt-expedited reduction mechanism for hollow silicon microsphere formation in bi-functional halide melts. <i>Communications Chemistry</i> , 2018 , 1, | 6.3 | 24 |
| 19 | Homogeneous Li deposition through the control of carbon dot-assisted Li-dendrite morphology for high-performance Li-metal batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20325-20334 | 13 | 21 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 18 | Generalized Redox-Responsive Assembly of Carbon-Sheathed Metallic and Semiconducting Nanowire Heterostructures. <i>Nano Letters</i> , 2016 , 16, 1179-85 | 11.5 | 18 |
| 17 | Hybridizing germanium anodes with polysaccharide-derived nitrogen-doped carbon for high volumetric capacity of Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15828-15837 | 13 | 18 |
| 16 | Cost-effective approach for structural evolution of Si-based multicomponent for Li-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2095-2101 | 13 | 17 |
| 15 | Fundamental Understanding of Nanostructured Si Electrodes: Preparation and Characterization. <i>ChemNanoMat</i> , 2018 , 4, 319-337 | 3.5 | 17 |
| 14 | Revisiting Surface Modification of Graphite: Dual-Layer Coating for High-Performance Lithium Battery Anode Materials. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1711-7 | 4.5 | 16 |
| 13 | A multi-stacked hyperporous silicon flake for highly active solar hydrogen production. <i>Chemical Communications</i> , 2016 , 52, 10221-4 | 5.8 | 16 |
| 12 | Directed Self-Assembly of Asymmetric Block Copolymers in Thin Films Driven by Uniaxially Aligned Topographic Patterns. <i>ACS Nano</i> , 2018 , 12, 1642-1649 | 16.7 | 12 |
| 11 | Intramolecular deformation of zeotype-borogermanate toward a three-dimensional porous germanium anode for high-rate lithium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15961-15967 | 13 | 11 |
| 10 | Three-Dimensional Monolithic Organic Battery Electrodes. <i>ACS Nano</i> , 2019 , 13, 14357-14367 | 16.7 | 11 |
| 9 | Sliding chains keep particles together. <i>Science</i> , 2017 , 357, 250-251 | 33.3 | 9 |
| 8 | Electrochemical scissoring of disordered silicon-carbon composites for high-performance lithium storage. <i>Energy Storage Materials</i> , 2021 , 36, 139-146 | 19.4 | 9 |
| 7 | Electrolyte-mediated nanograin intermetallic formation enables superionic conduction and electrode stability in rechargeable batteries. <i>Energy Storage Materials</i> , 2020 , 33, 164-172 | 19.4 | 6 |
| 6 | Dual Buffering Inverse Design of Three-Dimensional Graphene-Supported Sn-TiO Anodes for Durable Lithium-Ion Batteries. <i>Small</i> , 2020 , 16, e2004861 | 11 | 6 |
| 5 | Revisiting Classical Rocking Chair Lithium-Ion Battery. <i>Macromolecular Research</i> , 2020 , 28, 1175-1191 | 1.9 | 5 |
| 4 | Vinyl-Integrated In Situ Cross-Linked Composite Gel Electrolytes for Stable Lithium Metal Anodes. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2922-2931 | 6.1 | 4 |
| 3 | Rational Structure Design of Fast-Charging NiSb Bimetal Nanosheet Anode for Lithium Ion Batteries. <i>Energy & Fuels</i> , 2020 , 34, 10211-10217 | 4.1 | 2 |
| 2 | Salt-mediated extraction of nanoscale Si building blocks: composite anode for Li-ion full battery with high energy density. <i>Materials Advances</i> , 2020 , 1, 2797-2803 | 3.3 | 0 |
| 1 | Nanoscale anodes for rechargeable batteries: Fundamentals and design principles 2021 , 91-157 | | 0 |

