

Won Mo Seong

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10618817/publications.pdf>

Version: 2024-02-01

32
papers

2,986
citations

236925

25
h-index

395702

33
g-index

33
all docs

33
docs citations

33
times ranked

5038
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | High-performance flexible perovskite solar cells exploiting Zn ₂ SnO ₄ prepared in solution below 100°C. Nature Communications, 2015, 6, 7410. | 12.8 | 417 |
| 2 | Voltage decay and redox asymmetry mitigation by reversible cation migration in lithium-rich layered oxide electrodes. Nature Materials, 2020, 19, 419-427. | 27.5 | 328 |
| 3 | Tailoring sodium intercalation in graphite for high energy and power sodium ion batteries. Nature Communications, 2019, 10, 2598. | 12.8 | 195 |
| 4 | Toward a low-cost high-voltage sodium aqueous rechargeable battery. Materials Today, 2019, 29, 26-36. | 14.2 | 156 |
| 5 | Cobalt-free, high-nickel layered oxide cathodes for lithium-ion batteries: Progress, challenges, and perspectives. Energy Storage Materials, 2021, 34, 250-259. | 18.0 | 145 |
| 6 | Nanoscale Phenomena in Lithium-Ion Batteries. Chemical Reviews, 2020, 120, 6684-6737. | 47.7 | 142 |
| 7 | Niobium Doping Effects on TiO ₂ Mesoscopic Electron Transport Layer-Based Perovskite Solar Cells. ChemSusChem, 2015, 8, 2392-2398. | 6.8 | 139 |
| 8 | Dissolution and ionization of sodium superoxide in sodium-oxygen batteries. Nature Communications, 2016, 7, 10670. | 12.8 | 129 |
| 9 | Abnormal self-discharge in lithium-ion batteries. Energy and Environmental Science, 2018, 11, 970-978. | 30.8 | 114 |
| 10 | Engineering Solid Electrolyte Interphase for Pseudocapacitive Anatase TiO ₂ Anodes in Sodium-Ion Batteries. Advanced Functional Materials, 2018, 28, 1802099. | 14.9 | 106 |
| 11 | Suppression of Voltage Decay through Manganese Deactivation and Nickel Redox Buffering in High-Energy Layered Lithium-Rich Electrodes. Advanced Energy Materials, 2018, 8, 1800606. | 19.5 | 97 |
| 12 | Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. Nature Energy, 2017, 2, . | 39.5 | 94 |
| 13 | Crystallographically preferred oriented TiO ₂ nanotube arrays for efficient photovoltaic energy conversion. Energy and Environmental Science, 2012, 5, 7989. | 30.8 | 88 |
| 14 | Amorphous Cobalt Phyllosilicate with Layered Crystalline Motifs as Water Oxidation Catalyst. Advanced Materials, 2017, 29, 1606893. | 21.0 | 84 |
| 15 | Controlling Residual Lithium in High-Nickel (>90%) Lithium Layered Oxides for Cathodes in Lithium-Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 18662-18669. | 13.8 | 81 |
| 16 | Impact of Residual Lithium on the Adoption of High-Nickel Layered Oxide Cathodes for Lithium-Ion Batteries. Chemistry of Materials, 2020, 32, 9479-9489. | 6.7 | 81 |
| 17 | Unveiling the Intrinsic Cycle Reversibility of a LiCoO ₂ Electrode at 4.8-V Cutoff Voltage through Subtractive Surface Modification for Lithium-Ion Batteries. Nano Letters, 2019, 19, 29-37. | 9.1 | 78 |
| 18 | Efficient Method of Designing Stable Layered Cathode Material for Sodium Ion Batteries Using Aluminum Doping. Journal of Physical Chemistry Letters, 2017, 8, 5021-5030. | 4.6 | 65 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Investigation on the interface between Li ₁₀ GeP ₂ S ₁₂ electrolyte and carbon conductive agents in all-solid-state lithium battery. <i>Scientific Reports</i> , 2018, 8, 8066. | 3.3 | 62 |
| 20 | Understanding capacity fading mechanism of thick electrodes for lithium-ion rechargeable batteries. <i>Journal of Power Sources</i> , 2020, 468, 228369. | 7.8 | 54 |
| 21 | In situ multiscale probing of the synthesis of a Ni-rich layered oxide cathode reveals reaction heterogeneity driven by competing kinetic pathways. <i>Nature Chemistry</i> , 2022, 14, 614-622. | 13.6 | 52 |
| 22 | Fabrication of a Cu ⁺ Cone-shaped Cation Source Inserted Conductive Bridge Random Access Memory and Its Improved Switching Reliability. <i>Advanced Functional Materials</i> , 2019, 29, 1806278. | 14.9 | 51 |
| 23 | Complementary Effects of Mg and Cu Incorporation in Stabilizing the Cobalt-Free LiNiO ₂ Cathode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43653-43664. | 8.0 | 46 |
| 24 | Anatase TiO ₂ nanorod-decoration for highly efficient photoenergy conversion. <i>Nanoscale</i> , 2013, 5, 11725. | 5.6 | 44 |
| 25 | High-efficiency and high-power rechargeable lithium-sulfur dioxide batteries exploiting conventional carbonate-based electrolytes. <i>Nature Communications</i> , 2017, 8, 14989. | 12.8 | 40 |
| 26 | Roughness of Ti Substrates for Control of the Preferred Orientation of TiO ₂ Nanotube Arrays as a New Orientation Factor. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13297-13305. | 3.1 | 26 |
| 27 | Amorphous multinary phyllosilicate catalysts for electrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18380-18387. | 10.3 | 21 |
| 28 | Observation of anatase nanograins crystallizing from anodic amorphous TiO ₂ nanotubes. <i>CrystEngComm</i> , 2015, 17, 7346-7353. | 2.6 | 13 |
| 29 | Nb-doped TiO ₂ air-electrode for advanced Li-air batteries. <i>Journal of Asian Ceramic Societies</i> , 2015, 3, 77-81. | 2.3 | 12 |
| 30 | ¹³ Al ₂ O ₃ nanospheres-directed synthesis of monodispersed BaAl ₂ O ₄ :Eu ²⁺ nanosphere phosphors. <i>CrystEngComm</i> , 2013, 15, 4797. | 2.6 | 11 |
| 31 | A bifunctional auxiliary electrode for safe lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24807-24813. | 10.3 | 4 |
| 32 | Controlling Residual Lithium in High-Nickel (>90%) Lithium Layered Oxides for Cathodes in Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2020, 132, 18821-18828. | 2.0 | 2 |