# Youngjin Kim

## List of Publications by Year in Descending Order



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| 37 papers | 3,194 citations | 20 h-index | 43 g-index |
| 43 ext. papers | 3,560 ext. citations | 11.7 avg, IF | 5.47 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 37 | Wet-CO Pretreatment Process for Reducing Residual Lithium in High-Nickel Layered Oxides for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 27096-27105 | 9.5 | 7 |
| 36 | Nonpolar Solvent-based Electrolytes with a Quasi-Solid-State Redox Reaction for Lithium-Sulfur Batteries. *ChemElectroChem*, **2021**, 8, 2321-2328 | 4.3 | |
| 35 | Cobalt-free, high-nickel layered oxide cathodes for lithium-ion batteries: Progress, challenges, and perspectives. *Energy Storage Materials*, **2021**, 34, 250-259 | 19.4 | 54 |
| 34 | Failure mode of thick cathodes for Li-ion batteries: Variation of state-of-charge along the electrode thickness direction. *Electrochimica Acta*, **2021**, 370, 137743 | 6.7 | 10 |
| 33 | Unraveling the Intricacies of Residual Lithium in High-Ni Cathodes for Lithium-Ion Batteries. *ACS Energy Letters*, **2021**, 6, 941-948 | 20.1 | 27 |
| 32 | Rational Design of Coating Ions via Advantageous Surface Reconstruction in High-Nickel Layered Oxide Cathodes for Lithium-Ion Batteries. *Advanced Energy Materials*, **2021**, 11, 2101112 | 21.8 | 11 |
| 31 | Seawater Battery-Based Wireless Marine Buoy System With Battery Degradation Prediction and Multiple Power Optimization Capabilities. *IEEE Access*, **2021**, 9, 104104-104114 | 3.5 | 3 |
| 30 | Impact of Residual Lithium on the Adoption of High-Nickel Layered Oxide Cathodes for Lithium-Ion Batteries. *Chemistry of Materials*, **2020**, 32, 9479-9489 | 9.6 | 28 |
| 29 | Rechargeable Seawater Batteries: Rechargeable Seawater Batteries From Concept to Applications (Adv. Mater. 20/2019). *Advanced Materials*, **2019**, 31, 1970141 | 24 | 2 |
| 28 | Scalable Solid-State Synthesis of Self-Assembled Si Nanoparticles in Spherical Carbons through Relative Miscibility for Li-Ion Batteries. *Journal of the Electrochemical Society*, **2019**, 166, A1127-A1131 | 3.9 | 1 |
| 27 | Rechargeable Seawater Batteries-From Concept to Applications. *Advanced Materials*, **2019**, 31, e1804936 | 24 | 44 |
| 26 | Role of Na+in the Cation Disorder of [Li1-xNax]NiO2as a Cathode for Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2018**, 165, A201-A205 | 3.9 | 15 |
| 25 | Bi-functional effects of lengthening aliphatic chain of phthalimide-based negative redox couple and its non-aqueous flow battery performance at stack cell. *APL Materials*, **2018**, 6, 047901 | 5.7 | 8 |
| 24 | Environmentally Sustainable Aluminum-Coordinated Poly(tetrahydroxybenzoquinone) as a Promising Cathode for Sodium Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 3479-3486 | 9.5 | 29 |
| 23 | Cointercalation of Mg2+ Ions into Graphite for Magnesium-Ion Batteries. *Chemistry of Materials*, **2018**, 30, 3199-3203 | 9.6 | 52 |
| 22 | Two-Dimensional Phosphorene-Derived Protective Layers on a Lithium Metal Anode for Lithium-Oxygen Batteries. *ACS Nano*, **2018**, 12, 4419-4430 | 16.7 | 92 |
| 21 | Living Light-Induced Crystallization-Driven Self-Assembly for Rapid Preparation of Semiconducting Nanofibers. *Journal of the American Chemical Society*, **2018**, 140, 6088-6094 | 16.4 | 88 |

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|---|---|---|---|
| 20 | Swelling-induced pore generation in fluorinated polynorbornene block copolymer films. *Polymer Chemistry*, **2018**, 9, 3536-3542 | 4.9 | 10 |
| 19 | Hydrothermally synthesized tin (IV) sulfide as a negative electrode for sodium-ion batteries and its sodiation mechanism. *Journal of Electroanalytical Chemistry*, **2018**, 808, 137-140 | 4.1 | 1 |
| 18 | Investigation into the stability of Li metal anodes in Li$O2 batteries with a redox mediator. *Journal of Materials Chemistry A*, **2017**, 5, 10609-10621 | 13 | 51 |
| 17 | Increase of both solubility and working voltage by acetyl substitution on ferrocene for non-aqueous flow battery. *Electrochemistry Communications*, **2016**, 69, 72-75 | 5.1 | 30 |
| 16 | Co-intercalation of Mg(2+) and Na(+) in Na(0.69)Fe2(CN)6 as a High-Voltage Cathode for Magnesium Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 8554-60 | 9.5 | 47 |
| 15 | Interfacial architectures based on a binary additive combination for high-performance Sn4P3 anodes in sodium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 8332-8338 | 13 | 64 |
| 14 | Electrode Performances of Amorphous Molybdenum Oxides of Different Molybdenum Valence for Lithium-ion Batteries. *Israel Journal of Chemistry*, **2015**, 55, 604-610 | 3.4 | 12 |
| 13 | Thermal Behavior of Solid Electrolyte Interphase Films Deposited on Graphite Electrodes with Different States-of-Charge. *Journal of the Electrochemical Society*, **2015**, 162, A892-A896 | 3.9 | 20 |
| 12 | Selectively accelerated lithium ion transport to silicon anodes via an organogel binder. *Journal of Power Sources*, **2015**, 298, 8-13 | 8.9 | 18 |
| 11 | SnSe alloy as a promising anode material for Na-ion batteries. *Chemical Communications*, **2015**, 51, 50-3 | 5.8 | 108 |
| 10 | Breathing silicon anodes for durable high-power operations. *Scientific Reports*, **2015**, 5, 14433 | 4.9 | 45 |
| 9 | Tin phosphide as a promising anode material for Na-ion batteries. *Advanced Materials*, **2014**, 26, 4139-44 | 24 | 316 |
| 8 | High-capacity anode materials for sodium-ion batteries. *Chemistry - A European Journal*, **2014**, 20, 11980-93 | 4.8 | 442 |
| 7 | A first-cycle coulombic efficiency higher than 100% observed for a Li2MO3 (M = Mo or Ru) electrode. *Angewandte Chemie - International Edition*, **2014**, 53, 10654-7 | 16.4 | 17 |
| 6 | A First-Cycle Coulombic Efficiency Higher than 100 % Observed for a Li2MO3 (M=Mo or Ru) Electrode. *Angewandte Chemie*, **2014**, 126, 10830-10833 | 3.6 | 1 |
| 5 | An amorphous red phosphorus/carbon composite as a promising anode material for sodium ion batteries. *Advanced Materials*, **2013**, 25, 3045-9 | 24 | 685 |
| 4 | Charge carriers in rechargeable batteries: Na ions vs. Li ions. *Energy and Environmental Science*, **2013**, 6, 2067 | 35.4 | 635 |
| 3 | Composites: An Amorphous Red Phosphorus/Carbon Composite as a Promising Anode Material for Sodium Ion Batteries (Adv. Mater. 22/2013). *Advanced Materials*, **2013**, 25, 3010-3010 | 24 | 6 |

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| 2 | Direct synthesis of self-assembled ferrite/carbon hybrid nanosheets for high performance lithium-ion battery anodes. *Journal of the American Chemical Society*, **2012**, 134, 15010-5 | 16.4 | 209 |
| 1 | Development of Prismatic Cells for Rechargeable Seawater Batteries. *Advanced Sustainable Systems*,2100484 | 5.9 | 3 |