

# Se-Hee Lee

## List of Publications by Citations

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85  
papers

5,806  
citations

38  
h-index

76  
g-index

86  
ext. papers

6,482  
ext. citations

10.4  
avg, IF

5.65  
L-index

#	Paper	IF	Citations
85	Ultrathin direct atomic layer deposition on composite electrodes for highly durable and safe Li-ion batteries. <i>Advanced Materials</i> , <b>2010</b> , 22, 2172-6	24	423
84	Ionic Covalent Organic Frameworks with Spiroborate Linkage. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 1737-41	16.4	380
83	Ultrathin coatings on nano-LiCoO <sub>2</sub> for Li-ion vehicular applications. <i>Nano Letters</i> , <b>2011</b> , 11, 414-8	11.5	322
82	Reversible Lithium-Ion Insertion in Molybdenum Oxide Nanoparticles. <i>Advanced Materials</i> , <b>2008</b> , 20, 3627-3632	13.04	304
81	Enhanced Stability of LiCoO <sub>2</sub> Cathodes in Lithium-Ion Batteries Using Surface Modification by Atomic Layer Deposition. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, A75	3.9	295
80	Stable silicon-ionic liquid interface for next-generation lithium-ion batteries. <i>Nature Communications</i> , <b>2015</b> , 6, 6230	17.4	183
79	Improved Functionality of Lithium-Ion Batteries Enabled by Atomic Layer Deposition on the Porous Microstructure of Polymer Separators and Coating Electrodes. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1022-1027	21.8	182
78	Electrochemical effects of ALD surface modification on combustion synthesized LiNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> as a layered-cathode material. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 3317-3324	8.9	178
77	Unexpected Improved Performance of ALD Coated LiCoO <sub>2</sub> /Graphite Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 213-219	21.8	174
76	Crystalline Lithium Imidazolate Covalent Organic Frameworks with High Li-Ion Conductivity. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 7518-7525	16.4	165
75	Using atomic layer deposition to hinder solvent decomposition in lithium ion batteries: first-principles modeling and experimental studies. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 14741-54	16.4	152
74	Reversible high-capacity Si nanocomposite anodes for lithium-ion batteries enabled by molecular layer deposition. <i>Advanced Materials</i> , <b>2014</b> , 26, 1596-601	24	146
73	Nanoscale Interface Modification of LiCoO <sub>2</sub> by Al <sub>2</sub> O <sub>3</sub> Atomic Layer Deposition for Solid-State Li Batteries. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, A1120-A1124	3.9	140
72	Solid State Enabled Reversible Four Electron Storage. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 120-127	21.8	131
71	Ultra-thin Solid-State Li-Ion Electrolyte Membrane Facilitated by a Self-Healing Polymer Matrix. <i>Advanced Materials</i> , <b>2015</b> , 27, 6922-7	24	128
70	Fabrication of Si core/C shell nanofibers and their electrochemical performances as a lithium-ion battery anode. <i>Journal of Power Sources</i> , <b>2012</b> , 206, 267-273	8.9	124
69	Conformal surface coatings to enable high volume expansion Li-ion anode materials. <i>ChemPhysChem</i> , <b>2010</b> , 11, 2124-30	3.2	115

68	Electrochemical reactivity of ball-milled MoO <sub>3</sub> as anode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2009</b> , 188, 286-291	8.9	114
67	Stress generation in silicon particles during lithium insertion. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 033111	3.4	108
66	Ionic liquid enabled FeS <sub>2</sub> for high-energy-density lithium-ion batteries. <i>Advanced Materials</i> , <b>2014</b> , 26, 7386-92	24	106
65	Conformal Coatings of Cyclized-PAN for Mechanically Resilient Si nano-Composite Anodes. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 697-702	21.8	105
64	Empowering the Lithium Metal Battery through a Silicon-Based Superionic Conductor. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, A1812-A1817	3.9	102
63	Anodic properties of hollow carbon nanofibers for Li-ion battery. <i>Journal of Power Sources</i> , <b>2012</b> , 199, 53-60	8.9	92
62	A Stabilized PAN-FeS <sub>2</sub> Cathode with an EC/DEC Liquid Electrolyte. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1300961	21.8	91
61	A Highly Reversible Nano-Si Anode Enabled by Mechanical Confinement in an Electrochemically Activated Li <sub>x</sub> Ti <sub>4</sub> Ni <sub>4</sub> Si <sub>7</sub> Matrix. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1226-1231	21.8	86
60	Effect of pores in hollow carbon nanofibers on their negative electrode properties for a lithium rechargeable battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 6702-10	9.5	74
59	Glass-ceramic Li <sub>2</sub> S-P <sub>2</sub> S <sub>5</sub> electrolytes prepared by a single step ball milling process and their application for all-solid-state lithium ion batteries. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1830-1833 <sup>5.1</sup>	5.1	73
58	Effect of Compressive Stress on Electrochemical Performance of Silicon Anodes. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A77-A81	3.9	72
57	Unexpected high power performance of atomic layer deposition coated Li[Ni <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> ]O <sub>2</sub> cathodes. <i>Journal of Power Sources</i> , <b>2014</b> , 254, 190-197	8.9	66
56	Controlled synthesis of aligned Ni-NiO core-shell nanowire arrays on glass substrates as a new supercapacitor electrode. <i>RSC Advances</i> , <b>2012</b> , 2, 8281	3.7	54
55	Microstructure Study of Electrochemically Driven Li <sub>x</sub> Si. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 1199-1204	21.8	53
54	High lithium ion conducting Li <sub>2</sub> S-P <sub>2</sub> S <sub>5</sub> glass-ceramic solid electrolyte with sulfur additive for all solid-state lithium secondary batteries. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 4243-4247	6.7	53
53	Nanostructured all-solid-state supercapacitor based on Li <sub>2</sub> S-P <sub>2</sub> S <sub>5</sub> glass-ceramic electrolyte. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 103902	3.4	49
52	A Truxenone-based Covalent Organic Framework as an All-Solid-State Lithium-Ion Battery Cathode with High Capacity. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 20385-20389	16.4	45
51	Hierarchical porous framework of Si-based electrodes for minimal volumetric expansion. <i>Advanced Materials</i> , <b>2014</b> , 26, 3520-5	24	42

50	Tunable Sn structures in porosity-controlled carbon nanofibers for all-solid-state lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11021-11030	13	40
49	Electrospun polyacrylonitrile microfiber separators for ionic liquid electrolytes in Li-ion batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 292, 1-6	8.9	40
48	FeS <sub>2</sub> -Imbedded Mixed Conducting Matrix as a Solid Battery Cathode. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600495	21.8	38
47	Binder-free three-dimensional silicon/carbon nanowire networks for high performance lithium-ion battery anodes. <i>Nano Energy</i> , <b>2013</b> , 2, 943-950	17.1	37
46	Enhancing NiSn nanowire lithium-ion anode performance by tailoring active/inactive material interfaces. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 10207-10212	8.9	35
45	Facile conductive bridges formed between silicon nanoparticles inside hollow carbon nanofibers. <i>Nanoscale</i> , <b>2013</b> , 5, 4790-6	7.7	34
44	Effect of organic solvent addition to PYR13FSI/[LiFSI] electrolytes on aluminum oxidation and rate performance of Li(Ni <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> )O <sub>2</sub> cathodes. <i>Journal of Power Sources</i> , <b>2014</b> , 265, 132-139	8.9	33
43	Microstructural evolution induced by micro-cracking during fast lithiation of single-crystalline silicon. <i>Journal of Power Sources</i> , <b>2014</b> , 265, 160-165	8.9	32
42	Improved Performance of All-Solid-State Lithium-Ion Batteries Using Nanosilicon Active Material with Multiwalled-Carbon-Nanotubes as a Conductive Additive. <i>Electrochemical and Solid-State Letters</i> , <b>2010</b> , 13, A154		32
41	Optimized Silicon Electrode Architecture, Interface, and Microgeometry for Next-Generation Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2016</b> , 28, 188-93	24	32
40	An All-Solid-State Li-Ion Battery with a Pre-Lithiated Si-Ti-Ni Alloy Anode. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A1497-A1501	3.9	30
39	Tin Networked Electrode Providing Enhanced Volumetric Capacity and Pressureless Operation for All-Solid-State Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A711-A715	3.9	25
38	Utilization of Al <sub>2</sub> O <sub>3</sub> Atomic Layer Deposition for Li Ion Pathways in Solid State Li Batteries. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A344-A349	3.9	25
37	Covalent organic framework based lithium-ion battery: Fundamental, design and characterization. <i>EnergyChem</i> , <b>2021</b> , 3, 100048	36.9	25
36	Preparation of Li <sub>2</sub> SO <sub>4</sub> /GeSe <sub>2</sub> /P <sub>2</sub> S <sub>5</sub> electrolytes by a single step ball milling for all-solid-state lithium secondary batteries. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 4984-4989	8.9	24
35	Improved Stability and Rate Capability of Ionic Liquid Electrolyte with High Concentration of LiFSI. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1860-A1866	3.9	22
34	Designing thermal and electrochemical oxidation processes for EMnO <sub>2</sub> nanofibers for high-performance electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 7197-7204	13	22
33	In Situ Engineering of the Electrode-Electrolyte Interface for Stabilized Overlithiated Cathodes. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604549	24	21

32	Li <sub>2</sub> S/Li <sub>2</sub> O/P <sub>2</sub> S <sub>5</sub> solid electrolyte for all-solid-state lithium batteries. <i>Solid State Ionics</i> , <b>2012</b> , 214, 25-30	3.3	21
31	Electrochemical Evolution of an Iron Sulfide and Sulfur Based Cathode for All-Solid-State Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A1009-A1015	3.9	21
30	Electrochemically induced and orientation dependent crack propagation in single crystal silicon. <i>Journal of Power Sources</i> , <b>2014</b> , 267, 739-743	8.9	20
29	Corrosion of stainless steel battery components by bis(fluorosulfonyl)imide based ionic liquid electrolytes. <i>Journal of Power Sources</i> , <b>2014</b> , 269, 616-620	8.9	19
28	Efficient photocatalytic degradation of acid orange 7 on metal oxide p/n junction composites under visible light. <i>Journal of Physics and Chemistry of Solids</i> , <b>2012</b> , 73, 1372-1377	3.9	19
27	High-Energy Nickel-Rich Layered Cathode Stabilized by Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A873-A879	3.9	17
26	Nonuniform Ionic and Electronic Transport of Ceramic and Polymer/Ceramic Hybrid Electrolyte by Nanometer-Scale Operando Imaging for Solid-State Battery. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000219	21.8	17
25	Simple and inexpensive coal-tar-pitch derived Si-C anode composite for all-solid-state Li-ion batteries. <i>Solid State Ionics</i> , <b>2018</b> , 324, 207-217	3.3	17
24	Pd effect on reliability of Ag bonding wires in microelectronic devices in high-humidity environments. <i>Metals and Materials International</i> , <b>2012</b> , 18, 881-885	2.4	17
23	High-Capacity and Highly Reversible Silicon-Tin Hybrid Anode for Solid-State Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A251-A254	3.9	13
22	Derivation of an Iron Pyrite All-Solid-State Composite Electrode with Ferrophosphorus, Sulfur, and Lithium Sulfide as Precursors. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, A663-A667	3.9	13
21	Mitigating irreversible capacity losses from carbon agents via surface modification. <i>Journal of Power Sources</i> , <b>2015</b> , 275, 605-611	8.9	12
20	All-solid-state disordered LiTiS <sub>2</sub> pseudocapacitor. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 15661-15668	8.3	11
19	Stable Lithium Deposition Using a Self-Optimizing Solid Electrolyte Composite. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A2962-A2966	3.9	10
18	Slurry-Coated Sheet-Style Sn-PAN Anodes for All-Solid-State Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A915-A922	3.9	10
17	The effect of energetically coated ZrO <sub>x</sub> on enhanced electrochemical performances of Li(Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> )O <sub>2</sub> cathodes using modified radio frequency (RF) sputtering. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 12982-12991	13	10
16	In situ lithiation of TiS <sub>2</sub> enabled by spontaneous decomposition of Li <sub>3</sub> N. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 9830-9834	8.9	10
15	Lithium Dendrite Growth Suppression and Ionic Conductivity of Li <sub>2</sub> S-P <sub>2</sub> S <sub>5</sub> -P <sub>2</sub> O <sub>5</sub> /Glass Solid Electrolytes Prepared by Mechanical Milling. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A3997-A4004	3.0	9

14	Nanostructured Si/C Fibers as a Highly Reversible Anode Material for All-Solid-State Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A1903-A1908	3.9	8
13	Nanostructured silicon electrodes for solid-state 3-d rechargeable lithium batteries. <i>Sensors and Actuators A: Physical</i> , <b>2011</b> , 167, 139-145	3.9	8
12	Doped Si nanoparticles with conformal carbon coating and cyclized-polyacrylonitrile network as high-capacity and high-rate lithium-ion battery anodes. <i>Nanotechnology</i> , <b>2015</b> , 26, 365401	3.4	7
11	Effect of Amorphous LiPON Coating on Electrochemical Performance of LiNi <sub>0.8</sub> Mn <sub>0.1</sub> Co <sub>0.1</sub> O <sub>2</sub> (NMC811) in All Solid-State Batteries. <i>Journal of the Electrochemical Society</i> ,	3.9	7
10	Towards the Commercialization of the All-Solid-State Li-ion Battery: Local Bonding Structure and the Reversibility of Sheet-Style Si-PAN Anodes. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 060522 <sup>3,9</sup>	3.9	7
9	Ex Situ Investigation of Anisotropic Interconnection in Silicon-Titanium-Nickel Alloy Anode Material. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A968-A972	3.9	5
8	Electrochemical Analysis of Factors Affecting the Kinetic Capabilities of an Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1677-A1684	3.9	5
7	Self-Contained Fragmentation and Interfacial Stability in Crude Micron-Silicon Anodes. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A244-A250	3.9	5
6	Observations of stress accumulation and relaxation in solid-state lithiation and delithiation of suspended Si microcantilevers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 2156-2168	1.6	5
5	Solid State Electrolytes: Nonuniform Ionic and Electronic Transport of Ceramic and Polymer/Ceramic Hybrid Electrolyte by Nanometer-Scale Operando Imaging for Solid-State Battery (Adv. Energy Mater. 21/2020). <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2070097	21.8	3
4	Helical Covalent Polymers with Unidirectional Ion Channels as Single Lithium-Ion Conducting Electrolytes. <i>CCS Chemistry</i> , 2762-2770	7.2	3
3	Electrophoretic kinetics of concentrated TiO <sub>2</sub> nanoparticle suspensions in aprotic solvent. <i>Electronic Materials Letters</i> , <b>2018</b> , 14, 79-82	2.9	2
2	A Truxenone-based Covalent Organic Framework as an All-Solid-State Lithium-Ion Battery Cathode with High Capacity. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 20565-20569	3.6	1
1	Advancing Conversion Electrode Reversibility with Bulk Solid-State Batteries. <i>Materials and Energy</i> , <b>2015</b> , 627-655		