Se-Hee Lee

List of Publications by Year in descending order

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Sc.Heeler

#	Article	IF	CITATIONS
1	Effect of Polyacrylonitrile Surface Coating on Electrochemical Performance of LiNi _{0.8} Mn _{0.1} Co _{0.1} C ₂ in All Solid-State Batteries. Journal of the Electrochemical Society, 2022, 169, 060541.	2.9	2
2	Covalent organic framework based lithium-ion battery: Fundamental, design and characterization. EnergyChem, 2021, 3, 100048.	19.1	94
3	Effect of Amorphous LiPON Coating on Electrochemical Performance of LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ (NMC811) in All Solid-State Batteries. Journal of the Electrochemical Society, 2021, 168, 060537.	2.9	18
4	Helical Covalent Polymers with Unidirectional Ion Channels as Single Lithium-Ion Conducting Electrolytes. CCS Chemistry, 2021, 3, 2762-2770.	7.8	23
5	A Truxenoneâ€based Covalent Organic Framework as an Allâ€Solidâ€State Lithiumâ€Ion Battery Cathode with High Capacity. Angewandte Chemie, 2020, 132, 20565-20569.	2.0	5
6	A Truxenoneâ€based Covalent Organic Framework as an Allâ€Solidâ€State Lithiumâ€Ion Battery Cathode with High Capacity. Angewandte Chemie - International Edition, 2020, 59, 20385-20389.	13.8	110
7	Solid State Electrolytes: Nonuniform Ionic and Electronic Transport of Ceramic and Polymer/Ceramic Hybrid Electrolyte by Nanometerâ€5cale Operando Imaging for Solidâ€5tate Battery (Adv. Energy Mater.) Tj ETQ	11 9.6. 78	43 å 4 rgBT /(
8	Nonuniform Ionic and Electronic Transport of Ceramic and Polymer/Ceramic Hybrid Electrolyte by Nanometerâ€Scale Operando Imaging for Solidâ€State Battery. Advanced Energy Materials, 2020, 10, 2000219.	19.5	22
9	Towards the Commercialization of the All-Solid-State Li-ion Battery: Local Bonding Structure and the Reversibility of Sheet-Style Si-PAN Anodes. Journal of the Electrochemical Society, 2020, 167, 060522.	2.9	25
10	Improved Stability and Rate Capability of Ionic Liquid Electrolyte with High Concentration of LiFSI . Journal of the Electrochemical Society, 2019, 166, A1860-A1866.	2.9	35
11	Electrochemical Analysis of Factors Affecting the Kinetic Capabilities of an Ionic Liquid Electrolyte. Journal of the Electrochemical Society, 2019, 166, A1677-A1684.	2.9	7
12	Crystalline Lithium Imidazolate Covalent Organic Frameworks with High Li-Ion Conductivity. Journal of the American Chemical Society, 2019, 141, 7518-7525.	13.7	261
13	Slurry-Coated Sheet-Style Sn-PAN Anodes for All-Solid-State Li-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A915-A922.	2.9	15
14	High-Energy Nickel-Rich Layered Cathode Stabilized by Ionic Liquid Electrolyte. Journal of the Electrochemical Society, 2019, 166, A873-A879.	2.9	27
15	Lithium Dendrite Growth Suppression and Ionic Conductivity of Li ₂ S-P ₂ S ₅ P ₂ S ₂ O ₅ AGlass Solid Electrolytes Prepared by Mechanical Milling. Journal of the Electrochemical Society, 2019, 166, A3997-A4004.	2.9	19
16	Self-Contained Fragmentation and Interfacial Stability in Crude Micron-Silicon Anodes. Journal of the Electrochemical Society, 2018, 165, A244-A250.	2.9	10
17	Electrophoretic kinetics of concentrated TiO2 nanoparticle suspensions in aprotic solvent. Electronic Materials Letters, 2018, 14, 79-82.	2.2	2
18	Nanostructured Si/C Fibers as a Highly Reversible Anode Material for All-Solid-State Lithium-Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A1903-A1908.	2.9	19

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19	Simple and inexpensive coal-tar-pitch derived Si-C anode composite for all-solid-state Li-ion batteries. Solid State Ionics, 2018, 324, 207-217.	2.7	36
20	Ex Situ Investigation of Anisotropic Interconnection in Silicon-Titanium-Nickel Alloy Anode Material. Journal of the Electrochemical Society, 2017, 164, A968-A972.	2.9	5
21	In Situ Engineering of the Electrode–Electrolyte Interface for Stabilized Overlithiated Cathodes. Advanced Materials, 2017, 29, 1604549.	21.0	26
22	Stable Lithium Deposition Using a Self-Optimizing Solid Electrolyte Composite. Journal of the Electrochemical Society, 2017, 164, A2962-A2966.	2.9	12
23	All-solid-state disordered LiTiS2pseudocapacitor. Journal of Materials Chemistry A, 2017, 5, 15661-15668.	10.3	13
24	FeS ₂ â€Imbedded Mixed Conducting Matrix as a Solid Battery Cathode. Advanced Energy Materials, 2016, 6, 1600495.	19.5	50
25	Optimized Silicon Electrode Architecture, Interface, and Microgeometry for Next eneration Lithiumâ€lon Batteries. Advanced Materials, 2016, 28, 188-193.	21.0	37
26	Ionic Covalent Organic Frameworks with Spiroborate Linkage. Angewandte Chemie - International Edition, 2016, 55, 1737-1741.	13.8	503
27	Observations of stress accumulation and relaxation in solidâ€state lithiation and delithiation of suspended Si microcantilevers. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2156-2168.	1.8	7
28	High-Capacity and Highly Reversible Silicon-Tin Hybrid Anode for Solid-State Lithium-Ion Batteries. Journal of the Electrochemical Society, 2016, 163, A251-A254.	2.9	25
29	Ultraâ€thin Solidâ€State Liâ€lon Electrolyte Membrane Facilitated by a Selfâ€Healing Polymer Matrix. Advanced Materials, 2015, 27, 6922-6927.	21.0	182
30	The effect of energetically coated ZrO _x on enhanced electrochemical performances of Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ cathodes using modified radio frequency (RF) sputtering. Journal of Materials Chemistry A, 2015, 3, 12982-12991.	10.3	12
31	Electrospun polyacrylonitrile microfiber separators for ionic liquid electrolytes in Li-ion batteries. Journal of Power Sources, 2015, 292, 1-6.	7.8	52
32	Tin Networked Electrode Providing Enhanced Volumetric Capacity and Pressureless Operation for All-Solid-State Li-Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A711-A715.	2.9	32
33	Utilization of Al ₂ O ₃ Atomic Layer Deposition for Li Ion Pathways in Solid State Li Batteries. Journal of the Electrochemical Society, 2015, 162, A344-A349.	2.9	45
34	Stable silicon-ionic liquid interface for next-generation lithium-ion batteries. Nature Communications, 2015, 6, 6230.	12.8	212
35	Mitigating irreversible capacity losses from carbon agents via surface modification. Journal of Power Sources, 2015, 275, 605-611.	7.8	14
36	Tunable Sn structures in porosity-controlled carbon nanofibers for all-solid-state lithium-ion battery anodes. Journal of Materials Chemistry A, 2015, 3, 11021-11030.	10.3	49

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37	Advancing Conversion Electrode Reversibility with Bulk Solid-State Batteries. Materials and Energy, 2015, , 627-655.	0.1	0
38	Doped Si nanoparticles with conformal carbon coating and cyclized-polyacrylonitrile network as high-capacity and high-rate lithium-ion battery anodes. Nanotechnology, 2015, 26, 365401.	2.6	9
39	Electrochemically induced and orientation dependent crack propagation in single crystal silicon. Journal of Power Sources, 2014, 267, 739-743.	7.8	21
40	Reversible Highâ€Capacity Si Nanocomposite Anodes for Lithiumâ€ion Batteries Enabled by Molecular Layer Deposition. Advanced Materials, 2014, 26, 1596-1601.	21.0	169
41	Unexpected high power performance of atomic layer deposition coated Li[Ni1/3Mn1/3Co1/3]O2 cathodes. Journal of Power Sources, 2014, 254, 190-197.	7.8	73
42	Microstructural evolution induced by micro-cracking during fast lithiation of single-crystalline silicon. Journal of Power Sources, 2014, 265, 160-165.	7.8	38
43	A Stabilized PANâ€FeS ₂ Cathode with an EC/DEC Liquid Electrolyte. Advanced Energy Materials, 2014, 4, 1300961.	19.5	100
44	Empowering the Lithium Metal Battery through a Silicon-Based Superionic Conductor. Journal of the Electrochemical Society, 2014, 161, A1812-A1817.	2.9	137
45	Designing thermal and electrochemical oxidation processes for δ-MnO ₂ nanofibers for high-performance electrochemical capacitors. Journal of Materials Chemistry A, 2014, 2, 7197-7204.	10.3	23
46	Corrosion of stainless steel battery components by bis(fluorosulfonyl)imide based ionic liquid electrolytes. Journal of Power Sources, 2014, 269, 616-620.	7.8	26
47	Ionic Liquid Enabled FeS ₂ for Highâ€Energyâ€Density Lithiumâ€Ion Batteries. Advanced Materials, 2014, 26, 7386-7392.	21.0	116
48	Derivation of an Iron Pyrite All-Solid-State Composite Electrode with Ferrophosphorus, Sulfur, and Lithium Sulfide as Precursors. Journal of the Electrochemical Society, 2014, 161, A663-A667.	2.9	16
49	Hierarchical Porous Framework of Siâ€Based Electrodes for Minimal Volumetric Expansion. Advanced Materials, 2014, 26, 3520-3525.	21.0	47
50	Effect of organic solvent addition to PYR13FSIÂ+ÂLiFSI electrolytes on aluminum oxidation and rate performance of Li(Ni1/3Mn1/3Co1/3)O2 cathodes. Journal of Power Sources, 2014, 265, 132-139.	7.8	37
51	Conformal Coatings of Cyclizedâ€PAN for Mechanically Resilient Si nano omposite Anodes. Advanced Energy Materials, 2013, 3, 697-702.	19.5	134
52	Binder-free three-dimensional silicon/carbon nanowire networks for high performance lithium-ion battery anodes. Nano Energy, 2013, 2, 943-950.	16.0	47
53	Facile conductive bridges formed between silicon nanoparticles inside hollow carbon nanofibers. Nanoscale, 2013, 5, 4790.	5.6	37
54	An All-Solid-State Li-Ion Battery with a Pre-Lithiated Si-Ti-Ni Alloy Anode. Journal of the Electrochemical Society, 2013, 160, A1497-A1501.	2.9	49

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55	Electrochemical Evolution of an Iron Sulfide and Sulfur Based Cathode for All-Solid-State Li-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A1009-A1015.	2.9	25
56	Solid State Enabled Reversible Four Electron Storage. Advanced Energy Materials, 2013, 3, 120-127.	19.5	155
57	Unexpected Improved Performance of ALD Coated LiCoO ₂ /Graphite Liâ€lon Batteries. Advanced Energy Materials, 2013, 3, 213-219.	19.5	206
58	Effect of Compressive Stress on Electrochemical Performance of Silicon Anodes. Journal of the Electrochemical Society, 2013, 160, A77-A81.	2.9	119
59	Efficient photocatalytic degradation of acid orange 7 on metal oxide p–n junction composites under visible light. Journal of Physics and Chemistry of Solids, 2012, 73, 1372-1377.	4.0	19
60	Nanoscale Interface Modification of LiCoO ₂ by Al ₂ O ₃ Atomic Layer Deposition for Solid-State Li Batteries. Journal of the Electrochemical Society, 2012, 159, A1120-A1124.	2.9	173
61	Nanostructured all-solid-state supercapacitor based on Li ₂ S-P ₂ S ₅ glass-ceramic electrolyte. Applied Physics Letters, 2012, 100, 103902.	3.3	61
62	Effect of Pores in Hollow Carbon Nanofibers on Their Negative Electrode Properties for a Lithium Rechargeable Battery. ACS Applied Materials & Interfaces, 2012, 4, 6702-6710.	8.0	84
63	Pd effect on reliability of Ag bonding wires in microelectronic devices in high-humidity environments. Metals and Materials International, 2012, 18, 881-885.	3.4	22
64	Controlled synthesis of aligned Ni-NiO core-shell nanowire arrays on glass substrates as a new supercapacitor electrode. RSC Advances, 2012, 2, 8281.	3.6	62
65	Improved Functionality of Lithiumâ€Ion Batteries Enabled by Atomic Layer Deposition on the Porous Microstructure of Polymer Separators and Coating Electrodes. Advanced Energy Materials, 2012, 2, 1022-1027.	19.5	213
66	A Highly Reversible Nano‣i Anode Enabled by Mechanical Confinement in an Electrochemically Activated Li _x Ti ₄ Ni ₄ Si ₇ Matrix. Advanced Energy Materials, 2012, 2, 1226-1231.	19.5	94
67	Anodic properties of hollow carbon nanofibers for Li-ion battery. Journal of Power Sources, 2012, 199, 53-60.	7.8	109
68	Fabrication of Si core/C shell nanofibers and their electrochemical performances as a lithium-ion battery anode. Journal of Power Sources, 2012, 206, 267-273.	7.8	136
69	Li2S–Li2O–P2S5 solid electrolyte for all-solid-state lithium batteries. Solid State Ionics, 2012, 214, 25-30.	2.7	24
70	Using Atomic Layer Deposition to Hinder Solvent Decomposition in Lithium Ion Batteries: First-Principles Modeling and Experimental Studies. Journal of the American Chemical Society, 2011, 133, 14741-14754.	13.7	174
71	Ultrathin Coatings on Nano-LiCoO ₂ for Li-Ion Vehicular Applications. Nano Letters, 2011, 11, 414-418.	9.1	357
72	In situ lithiation of TiS2 enabled by spontaneous decomposition of Li3N. Journal of Power Sources, 2011, 196, 9830-9834.	7.8	13

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73	Enhancing Ni–Sn nanowire lithium-ion anode performance by tailoring active/inactive material interfaces. Journal of Power Sources, 2011, 196, 10207-10212.	7.8	36
74	Electrochemical effects of ALD surface modification on combustion synthesized LiNi1/3Mn1/3Co1/3O2 as a layered-cathode material. Journal of Power Sources, 2011, 196, 3317-3324.	7.8	198
75	Nanostructured silicon electrodes for solid-state 3-d rechargeable lithium batteries. Sensors and Actuators A: Physical, 2011, 167, 139-145.	4.1	15
76	Microstructure Study of Electrochemically Driven Li _x Si. Advanced Energy Materials, 2011, 1, 1199-1204.	19.5	61
77	High lithium ion conducting Li2S–GeS2–P2S5 glass–ceramic solid electrolyte with sulfur additive for all solid-state lithium secondary batteries. Electrochimica Acta, 2011, 56, 4243-4247.	5.2	68
78	Conformal Surface Coatings to Enable High Volume Expansion Liâ€lon Anode Materials. ChemPhysChem, 2010, 11, 2124-2130.	2.1	126
79	Ultrathin Direct Atomic Layer Deposition on Composite Electrodes for Highly Durable and Safe Liâ€ l on Batteries. Advanced Materials, 2010, 22, 2172-2176.	21.0	486
80	Preparation of Li2S–GeSe2–P2S5 electrolytes by a single step ball milling for all-solid-state lithium secondary batteries. Journal of Power Sources, 2010, 195, 4984-4989.	7.8	28
81	Stress generation in silicon particles during lithium insertion. Applied Physics Letters, 2010, 97, .	3.3	128
82	Improved Performance of All-Solid-State Lithium-Ion Batteries Using Nanosilicon Active Material with Multiwalled-Carbon-Nanotubes as a Conductive Additive. Electrochemical and Solid-State Letters, 2010, 13, A154.	2.2	46
83	Enhanced Stability of LiCoO[sub 2] Cathodes in Lithium-Ion Batteries Using Surface Modification by Atomic Layer Deposition. Journal of the Electrochemical Society, 2010, 157, A75.	2.9	319
84	Glass–ceramic Li2S–P2S5 electrolytes prepared by a single step ball billing process and their application for all-solid-state lithium–ion batteries. Electrochemistry Communications, 2009, 11, 1830-1833.	4.7	99
85	Electrochemical reactivity of ball-milled MoO3â^'y as anode materials for lithium-ion batteries. Journal of Power Sources, 2009, 188, 286-291.	7.8	125
86	Reversible Lithiumâ€lon Insertion in Molybdenum Oxide Nanoparticles. Advanced Materials, 2008, 20, 3627-3632.	21.0	330