Jeong-Hee Choi

List of Publications by Year
in descending order

58 papers	1,971 citations	304368 22 h-index	253896 43 g-index
58 all docs	58 docs citations	58 times ranked	2938 citing authors

#	Article	IF	Citations
1	Enhancement of ionic conductivity of composite membranes for all-solid-state lithium rechargeable batteries incorporating tetragonalÂLi7La3Zr2O12 into a polyethylene oxide matrix. Journal of Power Sources, 2015, 274, 458-463.	4.0	240
2	Ultraconcentrated Sodium Bis(fluorosulfonyl)imide-Based Electrolytes for High-Performance Sodium Metal Batteries. ACS Applied Materials & Interfaces, 2017, 9, 3723-3732.	4.0	177
3	All Solid-State Lithium Batteries Assembled with Hybrid Solid Electrolytes. Journal of the Electrochemical Society, 2015, 162, A704-A710.	1.3	158
4	Microstructure Controlled Porous Silicon Particles as a High Capacity Lithium Storage Material via Dual Step Pore Engineering. Advanced Functional Materials, 2018, 28, 1800855.	7.8	106
5	Sn-Based Nanocomposite for Li-Ion Battery Anode with High Energy Density, Rate Capability, and Reversibility. ACS Nano, 2018, 12, 2955-2967.	7.3	103
6	Free-Positioning Wireless Charging System for Small Electronic Devices Using a Bowl-Shaped Transmitting Coil. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 791-800.	2.9	85
7	Anodic WO₃ Mesosponge @ Carbon: A Novel Binder-less Electrode for Advanced Energy Storage Devices. ACS Applied Materials & Interfaces, 2015, 7, 7635-7643.	4.0	77
8	Nitrate removal by electro-bioremediation technology in Korean soil. Journal of Hazardous Materials, 2009, 168, 1208-1216.	6.5	60
9	A cooperative biphasic MoOxâ€"MoPx promoter enables a fast-charging lithium-ion battery. Nature Communications, 2021, 12, 39.	5.8	59
10	Hexagonal two dimensional electrokinetic systems for restoration of saline agricultural lands: A pilot study. Chemical Engineering Journal, 2012, 198-199, 110-121.	6.6	52
11	Sb2S3 embedded in amorphous P/C composite matrix as high-performance anode material for sodium ion batteries. Electrochimica Acta, 2016, 210, 588-595.	2.6	52
12	Cathodic performance of V2O5 nanowires and reduced graphene oxide composites for lithium ion batteries. Current Applied Physics, 2014, 14, 215-221.	1.1	51
13	New high-energy-density GeTe-based anodes for Li-ion batteries. Journal of Materials Chemistry A, 2019, 7, 3278-3288.	5.2	50
14	Low temperature performance of graphite and LiNi0.6Co0.2Mn0.2O2 electrodes in Li-ion batteries. Journal of Materials Science, 2014, 49, 7707-7714.	1.7	45
15	Pilot-scale study on in situ electrokinetic removal of nitrate from greenhouse soil. Separation and Purification Technology, 2011, 79, 254-263.	3.9	40
16	Porous carbon-free SnSb anodes for high-performance Na-ion batteries. Journal of Power Sources, 2018, 386, 34-39.	4.0	36
17	Highly Reversible Na-Ion Reaction in Nanostructured Sb₂Te₃-C Composites as Na-Ion Battery Anodes. Journal of the Electrochemical Society, 2017, 164, A2056-A2064.	1.3	34
18	Comparative Electrochemical Analysis of Crystalline and Amorphous Anodized Iron Oxide Nanotube Layers as Negative Electrode for LIB. ACS Applied Materials & Interfaces, 2014, 6, 11219-11224.	4.0	31

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19	Removal characteristics of salts of greenhouse in field test by in situ electrokinetic process. Electrochimica Acta, 2012, 86, 63-71.	2.6	30
20	Effect of binder and composition ratio on electrochemical performance of silicon/graphite composite battery electrode. Materials Letters, 2014, 136, 254-257.	1.3	28
21	Molecular characterization and corrosion behavior of thermophilic (55â€‰Â°C) SRB <i>Desulfotomaculum kuznetsovii</i> isolated from cooling tower in petroleum refinery. Materials and Corrosion - Werkstoffe Und Korrosion, 2009, 60, 730-737.	0.8	22
22	Carbon Nanofiber/3D Nanoporous Silicon Hybrids as High Capacity Lithium Storage Materials. ChemSusChem, 2016, 9, 834-840.	3.6	22
23	Germanium telluride: Layered high-performance anode for sodium-ion batteries. Electrochimica Acta, 2020, 331, 135393.	2.6	22
24	Modulating the electrical conductivity of a graphene oxide-coated 3D framework for guiding bottom-up lithium growth. Journal of Materials Chemistry A, 2021, 9, 1822-1834.	5.2	22
25	One-Dimensional Porous Li-Confinable Hosts for High-Rate and Stable Li-Metal Batteries. ACS Nano, 2022, 16, 11892-11901.	7.3	22
26	High performance Sb2S3/carbon composite with tailored artificial interface as an anode material for sodium ion batteries. Metals and Materials International, 2017, 23, 1241-1249.	1.8	21
27	ZnSb/C composite anode in additive free electrolyte for sodium ion batteries. Materials Letters, 2015, 159, 349-352.	1.3	19
28	Cycle life modeling and the capacity fading mechanisms in a graphite/LiNi0.6Co0.2Mn0.2O2 cell. Journal of Applied Electrochemistry, 2015, 45, 419-426.	1.5	18
29	Carbon embedded SnSb composite tailored by carbothermal reduction process as high performance anode for sodium-ion batteries. Journal of Industrial and Engineering Chemistry, 2018, 60, 451-457.	2.9	18
30	3D Carbon-Based Porous Anode with a Pore-Size Gradient for High-Performance Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2021, 13, 55227-55234.	4.0	17
31	Porosity controlled carbon-based 3D anode for lithium metal batteries by a slurry based process. Chemical Communications, 2020, 56, 13040-13043.	2.2	16
32	Crystalline iron oxide nanotube arrays with high aspect ratio as binder free anode for Li-ion batteries. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1889-1894.	0.8	15
33	Low temperature synthesis of garnet type solid electrolyte by modified polymer complex process and its characterization. Materials Research Bulletin, 2016, 83, 309-315.	2.7	15
34	Effect of Electrode Materials on Electrokinetic Reduction of Soil Salinity. Separation Science and Technology, 2012, 47, 22-29.	1.3	14
35	In Situ Electrokinetic Removal of Salts from Greenhouse Soil Using Iron Electrode. Separation Science and Technology, 2013, 48, 749-756.	1.3	14
36	Effect of carbon properties on the electrochemical performance of carbon-based air electrodes for rechargeable zincâ€"air batteries. Journal of Applied Electrochemistry, 2018, 48, 405-413.	1.5	14

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37	Investigation of electrochemical reaction mechanism for antimony selenide nanocomposite for sodium-ion battery electrodes. Journal of Applied Electrochemistry, 2019, 49, 207-216.	1.5	14
38	Improved performance of Ag-nanoparticle-decorated TiO2 nanotube arrays in Li-ion batteries. Journal of the Korean Physical Society, 2013, 63, 1809-1814.	0.3	13
39	Microstructural Tuning of Si/TiFeSi2 Nanocomposite as Lithium Storage Materials by Mechanical Deformation. Electrochimica Acta, 2016, 210, 301-307.	2.6	13
40	Evaluation of EK System by DC and AC on Removal of Nitrate Complex. Separation Science and Technology, 2009, 44, 2269-2283.	1.3	12
41	Removal of phosphate from agricultural soil by electrokinetic remediation with iron electrode. Journal of Applied Electrochemistry, 2010, 40, 1101-1111.	1.5	12
42	Electrokinetic Remediation of Saline Soil Using Pulse Power. Environmental Engineering Science, 2013, 30, 133-141.	0.8	12
43	High areal capacity for battery anode using rapidly growing self-ordered TiO2 nanotubes with a high aspect ratio. Materials Letters, 2014, 137, 347-350.	1.3	11
44	Fabrication of macroporous Si alloy anodes using polystyrene beads for lithium ion batteries. Journal of Applied Electrochemistry, 2016, 46, 695-702.	1.5	9
45	Design and electrochemical characteristics of single-layer cathode for flexible tubular type zinc-air fuel cells. Journal of Alloys and Compounds, 2018, 740, 895-900.	2.8	9
46	Electrochemical studies on the performance of SS316L electrode in electrokinetics. Metals and Materials International, 2009, 15, 771-781.	1.8	8
47	Highly Reversible Cycling of Znâ€MnO₂ Batteries Integrated with Acidâ€Treated Carbon Supportive Layer. Small Methods, 2022, 6, e2101060.	4.6	7
48	Electrically Exploded Silicon/Carbon Nanocomposite as Anode Material for Lithium-ion Batteries. Journal of Nanoscience and Nanotechnology, 2014, 14, 9340-9345.	0.9	6
49	Metal-assisted silicon based negative electrode for Li-ion batteries. Materials Letters, 2014, 126, 291-294.	1.3	6
50	Restoration of saline greenhouse soil and its effect on cropâ€™s growth through<i>in situ</i>field-scale electrokinetic technology. Separation Science and Technology, 2016, 51, 1227-1237.	1.3	6
51	Calcium zincate as an efficient reversible negative electrode material for rechargeable zincâ€“air batteries. Ionics, 2019, 25, 1707-1713.	1.2	6
52	Effects of electrode loading on low temperature performances of Li-ion batteries. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2625-2630.	0.8	5
53	A pore-structured Si alloy anode using an unzipping polymer for a lithium ion battery. Journal of Applied Electrochemistry, 2017, 47, 1127-1136.	1.5	5
54	Rate-capability response of graphite anode materials in advanced energy storage systems: a structural comparison. Carbon Letters, 2016, 17, 39-44.	3.3	5

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55	Effect of copper content in the new conductive material Cu-SPB used in low-temperature Li-ion batteries. Journal of the Korean Physical Society, 2014, 65, 317-324.	0.3	4
56	Bismuth and its nanocomposite: Reaction mechanism and rational nanocomposite fabrication process for superior sodiumâ€ion battery anodes. International Journal of Energy Research, 2022, 46, 9486-9497.	2.2	3
57	A Field Study on Electrokinetic Removal of Salts from Greenhouse Soil. Korean Chemical Engineering Research, 2014, 52, 126-132.	0.2	0
58	Highly Reversible Cycling of Znâ€MnO₂ Batteries Integrated with Acidâ€Treated Carbon Supportive Layer (Small Methods 2/2022). Small Methods, 2022, 6, .	4.6	0