

Sukeun Yoon

List of Publications by Year in descending order

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70
papers

2,400
citations

172457

29
h-index

214800

47
g-index

70
all docs

70
docs citations

70
times ranked

3727
citing authors

#	ARTICLE	IF	CITATIONS
1	The controlled release of active substance from one-dimensional inorganic nanocarrier for the stability enhancement of lithium batteries. <i>Chemical Engineering Journal</i> , 2022, 427, 131748.	12.7	6
2	P-doped SiO _x /Si/SiO _x Sandwich Anode for Li-ion Batteries to Achieve High Initial Coulombic Efficiency and Low Capacity Decay. <i>Small Methods</i> , 2022, 6, e2101052.	8.6	26
3	Electromigration Reliability in Ag Lines Printed with Nanoparticle Inks: Implications for Printed Electronics. <i>ACS Applied Nano Materials</i> , 2022, 5, 2569-2577.	5.0	3
4	Thiol-ene UV-curable sponge electrolyte for low-voltage color changing wearable tactile device. <i>Polymer</i> , 2022, 250, 124898.	3.8	4
5	A dual-function sulfite-type additive for long cycle life in high-voltage lithium metal batteries. <i>Journal of Alloys and Compounds</i> , 2021, 872, 159662.	5.5	5
6	Metal iodides (LiI, MgI ₂ , AlI ₃ , TiI ₄ , and SnI ₄) potentiality as electrolyte additives for Li-S batteries. <i>Electrochimica Acta</i> , 2021, 391, 138927.	5.2	17
7	Ion shielding functional separator using halloysite containing a negative functional moiety for stability improvement of Li-S batteries. <i>Journal of Energy Chemistry</i> , 2021, 60, 334-340.	12.9	26
8	Soft, robust, Li-ion friendly halloysite-based hybrid protective layer for dendrite-free Li metal anode. <i>Chemical Engineering Journal</i> , 2021, 424, 130326.	12.7	20
9	Enhancing the cycling stability of Ni-rich LiNi _{0.83} Co _{0.11} Mn _{0.06} O ₂ cathode at 4.5 V via 2,4-difluorobiphenyl additive. <i>Journal of Power Sources</i> , 2021, 512, 230513.	7.8	20
10	Preparation of lithium titanate nanoparticles assisted by an ion-exchange process and their electrochemical performance as anode materials for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161296.	5.5	9
11	Copper, zinc, and manganese niobates (CuNb ₂ O ₆), Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 352 Td (2021) Li ⁺ storage properties, and working mechanisms. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3176-3183.	6.0	20
12	Two-dimensional, P-doped Si/SiO _x alternating veneer-like microparticles for high-capacity lithium-ion battery composite. <i>Chemical Engineering Journal</i> , 2020, 402, 126292.	12.7	32
13	tert-Butylamine borane as a reductant in electroless nickel plating for improved etch resistance in the electrolyte. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	1.7	1
14	Facile synthesis and evaluation of MnCo ₂ O _{4.5} nanoparticles as a bifunctional catalyst for zinc-air battery. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 907-915.	2.9	5
15	Mesoporous ZnMn ₂ O ₄ Nanospheres as a Nonprecious Bifunctional Catalyst for Zn-Air Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 3293-3301.	5.1	23
16	Insights into Lithium Surface: Stable Cycling by Controlled 10 μm Deep Surface Relief, Reinterpreting the Natural Surface Defect on Lithium Metal Anode. <i>ACS Applied Energy Materials</i> , 2019, 2, 5656-5664.	5.1	16
17	Si Nanoparticles Coated with Co-Containing N-Doped Carbon: Preparation and Characterization as Li-Ion Battery Anode Materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 7753-7757.	0.9	6
18	High Dielectric, Robust Composite Protective Layer for Dendrite-Free and LiPF ₆ Degradation-Free Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2019, 29, 1905078.	14.9	47

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19	Synergistic high-voltage lithium ion battery performance by dual anode and cathode stabilizer additives. <i>Journal of Power Sources</i> , 2019, 441, 126668.	7.8	23
20	Ultrathin ZrO ₂ on LiNi _{0.5} Mn _{0.3} Co _{0.2} O ₂ electrode surface via atomic layer deposition for high-voltage operation in lithium-ion batteries. <i>Applied Surface Science</i> , 2019, 484, 701-709.	6.1	65
21	Delamination-Free Multifunctional Separator for Long-Term Stability of Lithium-Ion Batteries. <i>Small</i> , 2019, 15, e1804980.	10.0	32
22	Batteries: High Dielectric, Robust Composite Protective Layer for Dendrite-Free and LiPF ₆ Degradation-Free Lithium Metal Anode (Adv. Funct. Mater. 48/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970326.	14.9	0
23	Iron-antimony-based hybrid oxides as high-performance anodes for lithium-ion storage. <i>Journal of Power Sources</i> , 2018, 389, 28-36.	7.8	19
24	[4,4-bis(1,3,2-dioxathiolane)] 2,2-dioxide: A novel cathode additive for high-voltage performance in lithium ion batteries. <i>Journal of Power Sources</i> , 2018, 378, 112-118.	7.8	32
25	Controlled synthesis of dual-phase carbon-coated Nb ₂ O ₅ /TiNb ₂ O ₇ porous spheres and their Li-ion storage properties. <i>Journal of Alloys and Compounds</i> , 2018, 731, 437-443.	5.5	33
26	Ammonolysed LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ . <i>Bulletin of Materials Science</i> , 2018, 41, 1.	1.7	1
27	Tungsten oxide hydrate/polyvinylpyrrolidone/sulfur core-shell hollow particles as Li S battery cathode materials: Synthesis and electrochemical characterization. <i>Journal of Electroanalytical Chemistry</i> , 2018, 824, 9-13.	3.8	5
28	Embossed aluminum as a current collector for high-rate lithium cathode performance. <i>Journal of Power Sources</i> , 2018, 398, 193-200.	7.8	19
29	Crater-like architectural aluminum current collectors with superior electrochemical performance for Li-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2017, 797, 37-41.	3.8	19
30	A conductive thin layer on prepared positive electrodes by vapour reaction printing for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21214-21222.	10.3	23
31	One-Step Spontaneous Formation of Dual Wrinkling on Uniform-Sized Microparticles Induced by Surface. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700152.	2.2	5
32	Scalable Mesoporous Silicon-Carbon Composite Prepared by Stober Method and Magnesiothermic Reduction for High Power Anode of Lithium-Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 8468-8474.	0.9	3
33	Improved electrochromic device performance from silver grid on flexible transparent conducting electrode prepared by electrohydrodynamic jet printing. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12800-12806.	5.5	23
34	Facile conductive surface modification of Si nanoparticle with nitrogen-doped carbon layers for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2873-2878.	2.5	13
35	Effect of nitridation on LiMn _{1.5} Ni _{0.5} O ₄ and its application as cathode material in lithium-ion batteries. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 479-485.	2.9	8
36	Preparation of nanostructured Ge/GeO ₂ composite in carbon matrix as an anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 188, 120-125.	5.2	35

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37	CdS and CdSe Quantum Dot-Embedded Silicate Glasses for LED Color Converter. International Journal of Applied Glass Science, 2015, 6, 103-108.	2.0	45
38	Li _{1+x} Mn _{2-2x} O ₄ (0 ≤ x ≤ 0.2) spinel mesorod cathode materials for rechargeable lithium batteries. Electronic Materials Letters, 2014, 10, 1133-1136.	2.2	2
39	Binary sulfone/ether-based electrolytes for rechargeable lithium-sulfur batteries. Electrochimica Acta, 2014, 145, 170-176.	5.2	31
40	Conductive surface modification of cauliflower-like WO ₃ and its electrochemical properties for lithium-ion batteries. Journal of Alloys and Compounds, 2014, 613, 187-192.	5.5	57
41	Facile microwave synthesis of CoFe ₂ O ₄ spheres and their application as an anode for lithium-ion batteries. Journal of Applied Electrochemistry, 2014, 44, 1069-1074.	2.9	18
42	Urchin-like MnO ₂ decorated with Au and Pd as a bi-functional catalyst for rechargeable lithium-oxygen batteries. Journal of Power Sources, 2013, 244, 328-335.	7.8	58
43	Doped Lanthanum Nickelates with a Layered Perovskite Structure as Bifunctional Cathode Catalysts for Rechargeable Metal-Air Batteries. ACS Applied Materials & Interfaces, 2013, 5, 9902-9907.	8.0	146
44	Electrochemical performance of carbide-derived carbon anodes for lithium-ion batteries. Journal of Physics and Chemistry of Solids, 2013, 74, 1045-1055.	4.0	22
45	Mesoporous TiO ₂ spheres with a nitrated conducting layer for lithium-ion batteries. Journal of Materials Science, 2013, 48, 5125-5131.	3.7	18
46	Improved electrochemical performances of sulfur-microporous carbon composite electrode for Li/S battery. Journal of Applied Electrochemistry, 2013, 43, 245-252.	2.9	15
47	High Performance N-Doped Mesoporous Carbon Decorated TiO ₂ Nanofibers as Anode Materials for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2013, 117, 8092-8098.	3.1	112
48	Conductive surface modification of LiFePO ₄ with nitrogen-doped carbon layers for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 4611.	6.7	76
49	Cu ₂ S-Al ₂ O ₃ -C nanocomposite alloy anodes with exceptional cycle life for lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 3242.	6.7	38
50	Microwave-Solvothermal Synthesis of Various Polymorphs of Nanostructured TiO ₂ in Different Alcohol Media and Their Lithium Ion Storage Properties. Inorganic Chemistry, 2012, 51, 3505-3512.	4.0	42
51	Synthesis of nitrated MoO ₂ and its application as anode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2012, 536, 179-183.	5.5	45
52	Manganese oxide/carbon composite nanofibers: electrospinning preparation and application as a bi-functional cathode for rechargeable lithium-oxygen batteries. Journal of Materials Chemistry, 2012, 22, 21845.	6.7	52
53	Microwave-hydrothermal synthesis of WO ₃ and carbon-decorated WO _x -MoO ₂ nanorod anodes for lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 4082.	6.7	40
54	Mo ₃ Sb ₇ -C Composite Anodes for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 18909-18915.	3.1	24

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55	Hollow Core-Shell Mesoporous TiO ₂ Spheres for Lithium Ion Storage. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9410-9416.	3.1	90
56	Nanostructured Sn-Ti-C composite anodes for lithium ion batteries. <i>Electrochimica Acta</i> , 2011, 56, 3029-3035.	5.2	18
57	The effect of Cu addition on Ge-based composite anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2010, 55, 3324-3329.	5.2	33
58	Nanoengineered Sn-Ti-C composite anode for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 236-239.	6.7	38
59	Enhanced electrochemical properties of nanostructured bismuth-based composites for rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2009, 186, 206-210.	7.8	117
60	An Sn-Fe/carbon nanocomposite as an alternative anode material for rechargeable lithium batteries. <i>Electrochimica Acta</i> , 2009, 54, 2699-2705.	5.2	55
61	Superior Capacity Retention Sn-Ni-Fe-C Composite Anodes for Lithium-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, A190.	2.2	12
62	Sb-MO _x -C (M = Al, Ti, or Mo) Nanocomposite Anodes for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2009, 21, 3898-3904.	6.7	76
63	Electrochemical characteristics of manganese oxide/carbon composite as a cathode material for Li/MnO ₂ secondary batteries. <i>Journal of Power Sources</i> , 2008, 183, 325-329.	7.8	29
64	Enhanced cyclability and surface characteristics of lithium batteries by Li-Mg co-deposition and addition of HF acid in electrolyte. <i>Electrochimica Acta</i> , 2008, 53, 2501-2506.	5.2	45
65	Reaction mechanism and electrochemical characterization of a Sn-Co-C composite anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2008, 54, 364-369.	5.2	51
66	Electrochemical Characterizations of Germanium and Carbon-Coated Germanium Composite Anode for Lithium-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, A42.	2.2	169
67	High-Rate Capability and Enhanced Cyclability of Antimony-Based Composites for Lithium Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2007, 154, A917.	2.9	85
68	Electrochemical properties of Si-Zn-C composite as an anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2007, 167, 520-523.	7.8	27
69	Enhancement of capacity of carbon-coated Si-Cu ₃ Si composite anode using metal-organic compound for lithium-ion batteries. <i>Journal of Power Sources</i> , 2006, 161, 1319-1323.	7.8	67
70	Fe ₂ O ₃ /N-doped carbon-modified SiO _x particles via ionic liquid as anode materials for Li-ion batteries. <i>Journal of Applied Electrochemistry</i> , 0, , .	2.9	3