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	Electrochemical Characterizations of Germanium and Carbon-Coated Germanium Composite Anode for Lithium-Ion Batteries. Electrochemical and Solid-State Letters, 2008, 11, A42.	2.2	169
2	Doped Lanthanum Nickelates with a Layered Perovskite Structure as Bifunctional Cathode Catalysts for Rechargeable Metalâ€"Air Batteries. ACS Applied Materials & Interfaces, 2013, 5, 9902-9907.	8.0	146
3	Enhanced electrochemical properties of nanostructured bismuth-based composites for rechargeable lithium batteries. Journal of Power Sources, 2009, 186, 206-210.	7.8	117
4	High Performance N-Doped Mesoporous Carbon Decorated TiO₂ Nanofibers as Anode Materials for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2013, 117, 8092-8098.	3.1	112
5	Hollow Coreâ€"Shell Mesoporous TiO2 Spheres for Lithium Ion Storage. Journal of Physical Chemistry C, 2011, 115, 9410-9416.	3.1	90
6	High-Rate Capability and Enhanced Cyclability of Antimony-Based Composites for Lithium Rechargeable Batteries. Journal of the Electrochemical Society, 2007, 154, A917.	2.9	85
7	Sb-MO_{<i>x</i>}-C (M = Al, Ti, or Mo) Nanocomposite Anodes for Lithium-Ion Batteries. Chemistry of Materials, 2009, 21, 3898-3904.	6.7	76
8	Conductive surface modification of LiFePO4 with nitrogen-doped carbon layers for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 4611.	6.7	76
9	Enhancement of capacity of carbon-coated Siâ€"Cu3Si composite anode using metalâ€"organic compound for lithium-ion batteries. Journal of Power Sources, 2006, 161, 1319-1323.	7.8	67
10	Ultrathin ZrO2 on LiNi0.5Mn0.3Co0.2O2 electrode surface via atomic layer deposition for high-voltage operation in lithium-ion batteries. Applied Surface Science, 2019, 484, 701-709.	6.1	65
11	Urchin-like Î±-MnO2 decorated with Au and Pd as a bi-functional catalyst for rechargeable lithiumâ€"oxygen batteries. Journal of Power Sources, 2013, 244, 328-335.	7.8	58
12	Conductive surface modification of cauliflower-like WO3 and its electrochemical properties for lithium-ion batteries. Journal of Alloys and Compounds, 2014, 613, 187-192.	5.5	57
13	An Snâ€"Fe/carbon nanocomposite as an alternative anode material for rechargeable lithium batteries. Electrochimica Acta, 2009, 54, 2699-2705.	5.2	55
14	Manganese oxide/carbon composite nanofibers: electrospinning preparation and application as a bi-functional cathode for rechargeable lithiumâ€"oxygen batteries. Journal of Materials Chemistry, 2012, 22, 21845.	6.7	52
15	Reaction mechanism and electrochemical characterization of a Snâ€"Coâ€"C composite anode for Li-ion batteries. Electrochimica Acta, 2008, 54, 364-369.	5.2	51
16	High Dielectric, Robust Composite Protective Layer for Dendriteâ€Free and LiPF₆ Degradationâ€Free Lithium Metal Anode. Advanced Functional Materials, 2019, 29, 1905078.	14.9	47
17	Enhanced cyclability and surface characteristics of lithium batteries by Liâ€"Mg co-deposition and addition of HF acid in electrolyte. Electrochimica Acta, 2008, 53, 2501-2506.	5.2	45
18	Synthesis of nitrided MoO2 and its application as anode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2012, 536, 179-183.	5.5	45

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19	CdS and CdSe Quantum Dotâ€Embedded Silicate Glasses for <scp>LED</scp> Color Converter. International Journal of Applied Glass Science, 2015, 6, 103-108.	2.0	45
20	Microwave-Solvothermal Synthesis of Various Polymorphs of Nanostructured TiO₂ in Different Alcohol Media and Their Lithium Ion Storage Properties. Inorganic Chemistry, 2012, 51, 3505-3512.	4.0	42
21	Microwave-hydrothermal synthesis of W0.4Mo0.6O3 and carbon-decorated WOx-MoO2 nanorod anodes for lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 4082.	6.7	40
22	Nanoengineered Snâ€“TiCâ€“C composite anode for lithium ion batteries. Journal of Materials Chemistry, 2010, 20, 236-239.	6.7	38
23	Cu2Sbâ€“Al2O3â€“C nanocomposite alloy anodes with exceptional cycle life for lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 3242.	6.7	38
24	Preparation of nanostructured Ge/GeO2 composite in carbon matrix as an anode material for lithium-ion batteries. Electrochimica Acta, 2016, 188, 120-125.	5.2	35
25	The effect of Cu addition on Ge-based composite anode for Li-ion batteries. Electrochimica Acta, 2010, 55, 3324-3329.	5.2	33
26	Controlled synthesis of dual-phase carbon-coated Nb2O5/TiNb2O7 porous spheres and their Li-ion storage properties. Journal of Alloys and Compounds, 2018, 731, 437-443.	5.5	33
27	[4,4â€²-bi(1,3,2-dioxathiolane)] 2,2â€²-dioxide: A novel cathode additive for high-voltage performance in lithium ion batteries. Journal of Power Sources, 2018, 378, 112-118.	7.8	32
28	Delaminationâ€Free Multifunctional Separator for Longâ€Term Stability of Lithiumâ€Ion Batteries. Small, 2019, 15, e1804980.	10.0	32
29	Two-dimensional, P-doped Si/SiOx alternating veneer-like microparticles for high-capacity lithium-ion battery composite. Chemical Engineering Journal, 2020, 402, 126292.	12.7	32
30	Binary sulfone/ether-based electrolytes for rechargeable lithium-sulfur batteries. Electrochimica Acta, 2014, 145, 170-176.	5.2	31
31	Electrochemical characteristics of manganese oxide/carbon composite as a cathode material for Li/MnO2 secondary batteries. Journal of Power Sources, 2008, 183, 325-329.	7.8	29
32	Electrochemical properties of Siâ€“Znâ€“C composite as an anode material for lithium-ion batteries. Journal of Power Sources, 2007, 167, 520-523.	7.8	27
33	Ion shielding functional separator using halloysite containing a negative functional moiety for stability improvement of Liâ€“S batteries. Journal of Energy Chemistry, 2021, 60, 334-340.	12.9	26
34	Pâ€Doped SiO<i>_x</i>/Si/SiO<i>_x</i> Sandwich Anode for Liâ€Ion Batteries to Achieve High Initial Coulombic Efficiency and Low Capacity Decay. Small Methods, 2022, 6, e2101052.	8.6	26
35	Mo₃Sb₇â€“C Composite Anodes for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 18909-18915.	3.1	24
36	A conductive thin layer on prepared positive electrodes by vapour reaction printing for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 21214-21222.	10.3	23

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37	Improved electrochromic device performance from silver grid on flexible transparent conducting electrode prepared by electrohydrodynamic jet printing. Journal of Materials Chemistry C, 2017, 5, 12800-12806.	5.5	23
38	Synergistic high-voltage lithium ion battery performance by dual anode and cathode stabilizer additives. Journal of Power Sources, 2019, 441, 126668.	7.8	23
39	Mesoporous ZnMn₂O₄ Nanospheres as a Nonprecious Bifunctional Catalyst for Znâ€“Air Batteries. ACS Applied Energy Materials, 2020, 3, 3293-3301.	5.1	23
40	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
41	Copper, zinc, and manganese niobates (CuNb₂O₆,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 592 Td (Zn Li⁺ storage properties, and working mechanisms. Inorganic Chemistry Frontiers, 2020, 7, 3176-3183.	6.0	20
42	Soft, robust, Li-ion friendly halloysite-based hybrid protective layer for dendrite-free Li metal anode. Chemical Engineering Journal, 2021, 424, 130326.	12.7	20
43	Enhancing the cycling stability of Ni-rich LiNi0.83Co0.11Mn0.06O2 cathode at 4.5ÂV via 2,4-difluorobiphenyl additive. Journal of Power Sources, 2021, 512, 230513.	7.8	20
44	Crater-like architectural aluminum current collectors with superior electrochemical performance for Li-ion batteries. Journal of Electroanalytical Chemistry, 2017, 797, 37-41.	3.8	19
45	Iron-antimony-based hybrid oxides as high-performance anodes for lithium-ion storage. Journal of Power Sources, 2018, 389, 28-36.	7.8	19
46	Embossed aluminum as a current collector for high-rate lithium cathode performance. Journal of Power Sources, 2018, 398, 193-200.	7.8	19
47	Nanostructured Snâ€“Tiâ€“C composite anodes for lithium ion batteries. Electrochimica Acta, 2011, 56, 3029-3035.	5.2	18
48	Mesoporous TiO2 spheres with a nitridated conducting layer for lithium-ion batteries. Journal of Materials Science, 2013, 48, 5125-5131.	3.7	18
49	Facile microwave synthesis of CoFe2O4 spheres and their application as an anode for lithium-ion batteries. Journal of Applied Electrochemistry, 2014, 44, 1069-1074.	2.9	18
50	Metal iodides (LiI, MgI2, AlI3, TiI4, and SnI4) potentiality as electrolyte additives for Liâˆ'S batteries. Electrochimica Acta, 2021, 391, 138927.	5.2	17
51	Insights into Lithium Surface: Stable Cycling by Controlled 10 Î¼m Deep Surface Relief, Reinterpreting the Natural Surface Defect on Lithium Metal Anode. ACS Applied Energy Materials, 2019, 2, 5656-5664.	5.1	16
52	Improved electrochemical performances of sulfur-microporous carbon composite electrode for Li/S battery. Journal of Applied Electrochemistry, 2013, 43, 245-252.	2.9	15
53	Facile conductive surface modification of Si nanoparticle with nitrogen-doped carbon layers for lithium-ion batteries. Journal of Solid State Electrochemistry, 2016, 20, 2873-2878.	2.5	13
54	Superior Capacity Retention Snâ€“Niâ€“Feâ€“C Composite Anodes for Lithium-Ion Batteries. Electrochemical and Solid-State Letters, 2009, 12, A190.	2.2	12

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55	Preparation of lithium titanate nanoparticles assisted by an ion-exchange process and their electrochemical performance as anode materials for Li-ion batteries. Journal of Alloys and Compounds, 2021, 886, 161296.	5.5	9
56	Effect of nitridation on LiMn1.5Ni0.5O4 and its application as cathode material in lithium-ion batteries. Journal of Applied Electrochemistry, 2016, 46, 479-485.	2.9	8
57	Si Nanoparticles Coated with Co-Containing N-Doped Carbon: Preparation and Characterization as Li-Ion Battery Anode Materials. Journal of Nanoscience and Nanotechnology, 2019, 19, 7753-7757.	0.9	6
58	The controlled release of active substance from one-dimensional inorganic nanocarrier for the stability enhancement of lithium batteries. Chemical Engineering Journal, 2022, 427, 131748.	12.7	6
59	Oneâ€Step Spontaneous Formation of Dual Wrinkling on Uniformâ€Sized Microparticles Induced by Surface. Macromolecular Chemistry and Physics, 2017, 218, 1700152.	2.2	5
60	Tungsten oxide hydrate/polyvinylpyrrolidone/sulfur core-shell hollow particles as Li S battery cathode materials: Synthesis and electrochemical characterization. Journal of Electroanalytical Chemistry, 2018, 824, 9-13.	3.8	5
61	Facile synthesis and evaluation of MnCo2O4.5 nanoparticles as a bifunctional catalyst for zinc-air battery. Journal of Applied Electrochemistry, 2020, 50, 907-915.	2.9	5
62	A dual-function sulfite-type additive for long cycle life in high-voltage lithium metal batteries. Journal of Alloys and Compounds, 2021, 872, 159662.	5.5	5
63	Thiol-ene UV-curable sponge electrolyte for low-voltage color changing wearable tactile device. Polymer, 2022, 250, 124898.	3.8	4
64	Scalable Mesoporous Silicon-Carbon Composite Prepared by StÃ¶ber Method and Magnesiothermic Reduction for High Power Anode of Lithium-Ion Batteries. Journal of Nanoscience and Nanotechnology, 2017, 17, 8468-8474.	0.9	3
65	Electromigration Reliability in Ag Lines Printed with Nanoparticle Inks: Implications for Printed Electronics. ACS Applied Nano Materials, 2022, 5, 2569-2577.	5.0	3
66	Fe2O3/N-doped carbon-modified SiOx particles via ionic liquid as anode materials for Li-ion batteries. Journal of Applied Electrochemistry, 0, , .	2.9	3
67	Li1+x Mn2â^'x O4 (0 â‰ x â‰ 0.2) spinel mesorod cathode materials for rechargeable lithium batteries. Electronic Materials Letters, 2014, 10, 1133-1136.	2.2	2
68	Ammonolysed LiNi $$_{0.8}hbox {Co}_{0.15}hbox {Al}_{0.05}hbox {O}_{2}$$ 0.8 Co 0.15. Bulletin of Materials Science, 2018, 41, 1.	1.7	1
69	tert-Butylamine borane as a reductant in electroless nickel plating for improved etch resistance in the electrolyte. Bulletin of Materials Science, 2020, 43, 1.	1.7	1
70	Batteries: High Dielectric, Robust Composite Protective Layer for Dendriteâ€Free and LiPF₆ Degradationâ€Free Lithium Metal Anode (Adv. Funct. Mater. 48/2019). Advanced Functional Materials, 2019, 29, 1970326.	14.9	0