Yoon Hwa

List of Publications by Year
in descending order

46	2,275	257450 24	265206 42
papers	citations	h-index	g-index

46	46	46	3259
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Characterizations and electrochemical behaviors of disproportionated SiO and its composite for rechargeable Li-ion batteries. Journal of Materials Chemistry, 2010, 20, 4854.	6.7	232
2	Modified SiO as a high performance anode for Li-ion batteries. Journal of Power Sources, 2013, 222, 129-134.	7.8	167
3	Scalable synthesis of silicon nanosheets from sand as an anode for Li-ion batteries. Nanoscale, 2014, 6, 4297.	5.6	149
4	Lithium Sulfide (Li₂S)/Graphene Oxide Nanospheres with Conformal Carbon Coating as a High-Rate, Long-Life Cathode for Li/S Cells. Nano Letters, 2015, 15, 3479-3486.	9.1	130
5	SnO2@Co3O4 hollow nano-spheres for a Li-ion battery anode with extraordinary performance. Nano Research, 2014, 7, 1128-1136.	10.4	123
6	High capacity and rate capability of coreâ€“shell structured nano-Si/C anode for Li-ion batteries. Electrochimica Acta, 2012, 71, 201-205.	5.2	112
7	A New Approach to Synthesis of Porous SiOx Anode for Li-ion Batteries via Chemical Etching of Si Crystallites. Electrochimica Acta, 2014, 117, 426-430.	5.2	112
8	Synthesis of SnO2 nano hollow spheres and their size effects in lithium ion battery anode application. Journal of Power Sources, 2013, 225, 108-112.	7.8	110
9	Reaction mechanism and enhancement of cyclability of SiO anodes by surface etching with NaOH for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 4820.	10.3	101
10	Freeze-Dried Sulfurâ€“Graphene Oxideâ€“Carbon Nanotube Nanocomposite for High Sulfur-Loading Lithium/Sulfur Cells. Nano Letters, 2017, 17, 7086-7094.	9.1	95
11	Stibnite (Sb₂S₃) and its amorphous composite as dual electrodes for rechargeable lithium batteries. Journal of Materials Chemistry, 2010, 20, 1097-1102.	6.7	90
12	Nanostructured Zn-based composite anodes for rechargeable Li-ion batteries. Journal of Materials Chemistry, 2012, 22, 12767.	6.7	89
13	Nanosize Si anode embedded in super-elastic nitinol (Niâ€“Ti) shape memory alloy matrix for Li rechargeable batteries. Journal of Materials Chemistry, 2011, 21, 11213.	6.7	78
14	Li2S nano spheres anchored to single-layered graphene as a high-performance cathode material for lithium/sulfur cells. Nano Energy, 2016, 26, 524-532.	16.0	61
15	Redox-Active Supramolecular Polymer Binders for Lithiumâ€“Sulfur Batteries That Adapt Their Transport Properties in Operando. Chemistry of Materials, 2016, 28, 7414-7421.	6.7	55
16	Enhancement of the Cyclability of a Si Anode through Co₃O₄ Coating by the Solâ€“Gel Method. Journal of Physical Chemistry C, 2013, 117, 7013-7017.	3.1	44
17	Facile synthesis of Si nanoparticles using magnesium silicide reduction and its carbon composite as a high-performance anode for Li ion batteries. Journal of Power Sources, 2014, 252, 144-149.	7.8	44
18	Zinc Phosphides as Outstanding Sodium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2020, 12, 15053-15062.	8.0	44

#	Article	IF	Citations
19	Aqueous-Processable Redox-Active Supramolecular Polymer Binders for Advanced Lithium/Sulfur Cells. Chemistry of Materials, 2018, 30, 685-691.	6.7	42
20	Carbon coating for Si nanomaterials as high-capacity lithium battery electrodes. Electrochemistry Communications, 2014, 46, 144-147.	4.7	40
21	Effect of oxide layer thickness to nanoâ€“Si anode for Li-ion batteries. RSC Advances, 2013, 3, 9408.	3.6	34
22	The effect of Cu addition on Ge-based composite anode for Li-ion batteries. Electrochimica Acta, 2010, 55, 3324-3329.	5.2	33
23	Reversible storage of Li-ion in nano-Si/SnO2 coreâ€“shell nanostructured electrode. Journal of Materials Chemistry A, 2013, 1, 3733.	10.3	33
24	Facile synthesis of Si/TiO2 (anatase) coreâ€“shell nanostructured anodes for rechargeable Li-ion batteries. Journal of Electroanalytical Chemistry, 2014, 712, 202-206.	3.8	31
25	Direct Visualization of Lithium Polysulfides and Their Suppression in Liquid Electrolyte. Nano Letters, 2020, 20, 2080-2086.	9.1	26
26	Three-Dimensionally Aligned Sulfur Electrodes by Directional Freeze Tape Casting. Nano Letters, 2019, 19, 4731-4737.	9.1	24
27	Improvement of electrochemical behavior of Sn2Fe/C nanocomposite anode with Al2O3 addition for lithium-ion batteries. Journal of Power Sources, 2010, 195, 5044-5048.	7.8	22
28	Characterizations and electrochemical behaviors of milled Si with a degree of amorphization and its composite for Li-ion batteries. Journal of Power Sources, 2014, 260, 174-179.	7.8	21
29	Mesoporous Nanoâ€Si Anode for Liâ€ion Batteries Produced by Magnesioâ€Mechanochemical Reduction of Amorphous SiO₂. Energy Technology, 2013, 1, 327-331.	3.8	16
30	The electrochemical characteristics of Ag2S and its nanocomposite anodes for Li-ion batteries. Journal of Electroanalytical Chemistry, 2012, 667, 24-29.	3.8	15
31	Si nanocrystallites embedded in hard TiFeSi2 matrix as an anode material for Li-ion batteries. Journal of Electroanalytical Chemistry, 2012, 687, 84-88.	3.8	13
32	Laser-based three-dimensional manufacturing technologies for rechargeable batteries. Nano Convergence, 2021, 8, 23.	12.1	13
33	Microstructural banding of directed energy deposition-additively manufactured 316L stainless steel. Journal of Materials Science and Technology, 2021, 69, 96-105.	10.7	10
34	A Perspective on Li/S Battery Design: Modeling and Development Approaches. Batteries, 2021, 7, 82.	4.5	10
35	A sustainable sulfurâ€“carbonaceous composite electrode toward high specific energy rechargeable cells. Materials Horizons, 2020, 7, 524-529.	12.2	9
36	Novel high-performance Ga₂Te₃ anodes for Li-ion batteries. Journal of Materials Chemistry A, 2021, 9, 20553-20564.	10.3	9

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37	Polymeric binders for the sulfur electrode compatible with ionic liquid containing electrolytes. Electrochimica Acta, 2018, 271, 103-109.	5.2	8
38	Nanostructured Sulfur and Sulfides for Advanced Lithium/Sulfur Cells. ChemElectroChem, 2020, 7, 3927-3942.	3.4	8
39	High lithium sulfide loading electrodes for practical Li/S cells with high specific energy. Nano Energy, 2019, 64, 103891.	16.0	7
40	High-Energy-Density Gallium Antimonide Compound Anode and Optimized Nanocomposite Fabrication Route for Li-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 8940-8951.	5.1	7
41	Effect of Microstructural Bands on the Localized Corrosion of Laser Surface-Melted 316L Stainless Steel. Corrosion, 2021, 77, 1014-1024.	1.1	4
42	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
43	A review of the rational interfacial designs and characterizations for solidâ€state lithium/sulfur cells. Electrochemical Science Advances, 2022, 2, .	2.8	1
44	Sulfur Cathode. , 2017, , 31-103.		0
45	(Invited) Microstructural Design Strategies of Sulfur Electrodes for High Specific Energy Lithium/Sulfur Cells. ECS Meeting Abstracts, 2021, MA2021-01, 489-489.	0.0	0
46	Three-Dimensionally Aligned Sulfur Electrodes by Directional Freeze Tape Casting. SSRN Electronic Journal, 0, , .	0.4	0