

Yoon Hwa

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

1,881
citations

23
h-index

43
g-index

46
ext. papers

2,078
ext. citations

8.1
avg. IF

5.03
L-index

#	Paper	IF	Citations
42	A Perspective on Li/S Battery Design: Modeling and Development Approaches. <i>Batteries</i> , 2021 , 7, 82	5.7	2
41	Effect of Microstructural Bands on the Localized Corrosion of Laser Surface-Melted 316L Stainless Steel. <i>Corrosion</i> , 2021 , 77, 1014-1024	1.8	2
40	Microstructural banding of directed energy deposition-additively manufactured 316L stainless steel. <i>Journal of Materials Science and Technology</i> , 2021 , 69, 96-105	9.1	6
39	Novel high-performance Ga ₂ Te ₃ anodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20553-20564	13	0
38	Laser-based three-dimensional manufacturing technologies for rechargeable batteries. <i>Nano Convergence</i> , 2021 , 8, 23	9.2	2
37	Zinc Phosphides as Outstanding Sodium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15053-15062	9.5	23
36	Direct Visualization of Lithium Polysulfides and Their Suppression in Liquid Electrolyte. <i>Nano Letters</i> , 2020 , 20, 2080-2086	11.5	14
35	A sustainable sulfur-carbonaceous composite electrode toward high specific energy rechargeable cells. <i>Materials Horizons</i> , 2020 , 7, 524-529	14.4	8
34	Nanostructured Sulfur and Sulfides for Advanced Lithium/Sulfur Cells. <i>ChemElectroChem</i> , 2020 , 7, 3927-3942	19.2	4
33	Three-Dimensionally Aligned Sulfur Electrodes by Directional Freeze Tape Casting. <i>Nano Letters</i> , 2019 , 19, 4731-4737	11.5	19
32	High lithium sulfide loading electrodes for practical Li/S cells with high specific energy. <i>Nano Energy</i> , 2019 , 64, 103891	17.1	6
31	Aqueous-Processable Redox-Active Supramolecular Polymer Binders for Advanced Lithium/Sulfur Cells. <i>Chemistry of Materials</i> , 2018 , 30, 685-691	9.6	33
30	Polymeric binders for the sulfur electrode compatible with ionic liquid containing electrolytes. <i>Electrochimica Acta</i> , 2018 , 271, 103-109	6.7	5
29	Freeze-Dried Sulfur-Graphene Oxide-Carbon Nanotube Nanocomposite for High Sulfur-Loading Lithium/Sulfur Cells. <i>Nano Letters</i> , 2017 , 17, 7086-7094	11.5	78
28	Sulfur Cathode 2017 , 31-103		
27	Li ₂ S nano spheres anchored to single-layered graphene as a high-performance cathode material for lithium/sulfur cells. <i>Nano Energy</i> , 2016 , 26, 524-532	17.1	56
26	Redox-Active Supramolecular Polymer Binders for Lithium-Sulfur Batteries That Adapt Their Transport Properties in Operando. <i>Chemistry of Materials</i> , 2016 , 28, 7414-7421	9.6	40

25	Lithium Sulfide (Li ₂ S)/Graphene Oxide Nanospheres with Conformal Carbon Coating as a High-Rate, Long-Life Cathode for Li/S Cells. <i>Nano Letters</i> , 2015 , 15, 3479-86	11.5	117
24	Scalable synthesis of silicon nanosheets from sand as an anode for Li-ion batteries. <i>Nanoscale</i> , 2014 , 6, 4297-302	7.7	131
23	Facile synthesis of Si nanoparticles using magnesium silicide reduction and its carbon composite as a high-performance anode for Li ion batteries. <i>Journal of Power Sources</i> , 2014 , 252, 144-149	8.9	40
22	Facile synthesis of Si/TiO ₂ (anatase) core-shell nanostructured anodes for rechargeable Li-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 712, 202-206	4.1	29
21	Carbon coating for Si nanomaterials as high-capacity lithium battery electrodes. <i>Electrochemistry Communications</i> , 2014 , 46, 144-147	5.1	35
20	SnO ₂ @Co ₃ O ₄ hollow nano-spheres for a Li-ion battery anode with extraordinary performance. <i>Nano Research</i> , 2014 , 7, 1128-1136	10	112
19	Characterizations and electrochemical behaviors of milled Si with a degree of amorphization and its composite for Li-ion batteries. <i>Journal of Power Sources</i> , 2014 , 260, 174-179	8.9	19
18	A New Approach to Synthesis of Porous SiO _x Anode for Li-ion Batteries via Chemical Etching of Si Crystallites. <i>Electrochimica Acta</i> , 2014 , 117, 426-430	6.7	86
17	Mesoporous Nano-Si Anode for Li-ion Batteries Produced by Magnesium-Mechanochemical Reduction of Amorphous SiO ₂ . <i>Energy Technology</i> , 2013 , 1, 327-331	3.5	15
16	Effect of oxide layer thickness to nanoSi anode for Li-ion batteries. <i>RSC Advances</i> , 2013 , 3, 9408	3.7	31
15	Modified SiO as a high performance anode for Li-ion batteries. <i>Journal of Power Sources</i> , 2013 , 222, 129-134	8.34	136
14	Synthesis of SnO ₂ nano hollow spheres and their size effects in lithium ion battery anode application. <i>Journal of Power Sources</i> , 2013 , 225, 108-112	8.9	100
13	Enhancement of the Cyclability of a Si Anode through Co ₃ O ₄ Coating by the Sol-Gel Method. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 7013-7017	3.8	41
12	Reaction mechanism and enhancement of cyclability of SiO anodes by surface etching with NaOH for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4820	13	75
11	Reversible storage of Li-ion in nano-Si/SnO ₂ core-shell nanostructured electrode. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3733	13	33
10	High capacity and rate capability of core-shell structured nano-Si/C anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2012 , 71, 201-205	6.7	87
9	The electrochemical characteristics of Ag ₂ S and its nanocomposite anodes for Li-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 667, 24-29	4.1	12
8	Si nanocrystallites embedded in hard TiFeSi ₂ matrix as an anode material for Li-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 687, 84-88	4.1	13

- 7 Nanostructured Zn-based composite anodes for rechargeable Li-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 12767 79
- 6 Nanosize Si anode embedded in super-elastic nitinol (NiTi) shape memory alloy matrix for Li rechargeable batteries. *Journal of Materials Chemistry*, **2011**, 21, 11213 69
- 5 Stibnite (Sb₂S₃) and its amorphous composite as dual electrodes for rechargeable lithium batteries. *Journal of Materials Chemistry*, **2010**, 20, 1097-1102 78
- 4 Characterizations and electrochemical behaviors of disproportionated SiO and its composite for rechargeable Li-ion batteries. *Journal of Materials Chemistry*, **2010**, 20, 4854 195
- 3 Improvement of electrochemical behavior of Sn₂Fe/C nanocomposite anode with Al₂O₃ addition for lithium-ion batteries. *Journal of Power Sources*, **2010**, 195, 5044-5048 8.9 20
- 2 The effect of Cu addition on Ge-based composite anode for Li-ion batteries. *Electrochimica Acta*, **2010**, 55, 3324-3329 6.7 30
- 1 A review of the rational interfacial designs and characterizations for solid-state lithium/sulfur cells. *Electrochemical Science Advances*,