

Yoon Hwa

List of Publications by Year in descending order

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46
papers

2,275
citations

257101

24
h-index

264894

42
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46
all docs

46
docs citations

46
times ranked

3259
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterizations and electrochemical behaviors of disproportionated SiO and its composite for rechargeable Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 4854.	6.7	232
2	Modified SiO as a high performance anode for Li-ion batteries. <i>Journal of Power Sources</i> , 2013, 222, 129-134.	4.0	167
3	Scalable synthesis of silicon nanosheets from sand as an anode for Li-ion batteries. <i>Nanoscale</i> , 2014, 6, 4297.	2.8	149
4	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, 3479-3486.	4.5	130
5	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.	5.8	123
6	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.	2.6	112
7	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.	2.6	112
8	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.	4.0	110
9	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.	5.2	101
10	Freeze-Dried Sulfur-Graphene Oxide-Carbon Nanotube Nanocomposite for High Sulfur-Loading Lithium/Sulfur Cells. <i>Nano Letters</i> , 2017, 17, 7086-7094.	4.5	95
11	Stibnite (Sb ₂ S ₃) and its amorphous composite as dual electrodes for rechargeable lithium batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 1097-1102.	6.7	90
12	Nanostructured Zn-based composite anodes for rechargeable Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 12767.	6.7	89
13	Nanosize Si anode embedded in super-elastic nitinol (Ni-Ti) shape memory alloy matrix for Li rechargeable batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 11213.	6.7	78
14	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.	8.2	61
15	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.	3.2	55
16	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.	1.5	44
17	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.	4.0	44
18	Zinc Phosphides as Outstanding Sodium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15053-15062.	4.0	44

#	ARTICLE	IF	CITATIONS
19	Aqueous-Processable Redox-Active Supramolecular Polymer Binders for Advanced Lithium/Sulfur Cells. <i>Chemistry of Materials</i> , 2018, 30, 685-691.	3.2	42
20	Carbon coating for Si nanomaterials as high-capacity lithium battery electrodes. <i>Electrochemistry Communications</i> , 2014, 46, 144-147.	2.3	40
21	Effect of oxide layer thickness to nano-Si anode for Li-ion batteries. <i>RSC Advances</i> , 2013, 3, 9408.	1.7	34
22	The effect of Cu addition on Ge-based composite anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2010, 55, 3324-3329.	2.6	33
23	Reversible storage of Li-ion in nano-Si/SnO ₂ core-shell nanostructured electrode. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3733.	5.2	33
24	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.	1.9	31
25	Direct Visualization of Lithium Polysulfides and Their Suppression in Liquid Electrolyte. <i>Nano Letters</i> , 2020, 20, 2080-2086.	4.5	26
26	Three-Dimensionally Aligned Sulfur Electrodes by Directional Freeze Tape Casting. <i>Nano Letters</i> , 2019, 19, 4731-4737.	4.5	24
27	Improvement of electrochemical behavior of Sn ₂ Fe/C nanocomposite anode with Al ₂ O ₃ addition for lithium-ion batteries. <i>Journal of Power Sources</i> , 2010, 195, 5044-5048.	4.0	22
28	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.	4.0	21
29	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.	1.8	16
30	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.	1.9	15
31	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.	1.9	13
32	Laser-based three-dimensional manufacturing technologies for rechargeable batteries. <i>Nano Convergence</i> , 2021, 8, 23.	6.3	13
33	Microstructural banding of directed energy deposition-additively manufactured 316L stainless steel. <i>Journal of Materials Science and Technology</i> , 2021, 69, 96-105.	5.6	10
34	A Perspective on Li/S Battery Design: Modeling and Development Approaches. <i>Batteries</i> , 2021, 7, 82.	2.1	10
35	A sustainable sulfur-carbonaceous composite electrode toward high specific energy rechargeable cells. <i>Materials Horizons</i> , 2020, 7, 524-529.	6.4	9
36	Novel high-performance Ga ₂ Te ₃ anodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20553-20564.	5.2	9

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37	Polymeric binders for the sulfur electrode compatible with ionic liquid containing electrolytes. <i>Electrochimica Acta</i> , 2018, 271, 103-109.	2.6	8
38	Nanostructured Sulfur and Sulfides for Advanced Lithium/Sulfur Cells. <i>ChemElectroChem</i> , 2020, 7, 3927-3942.	1.7	8
39	High lithium sulfide loading electrodes for practical Li/S cells with high specific energy. <i>Nano Energy</i> , 2019, 64, 103891.	8.2	7
40	High-Energy-Density Gallium Antimonide Compound Anode and Optimized Nanocomposite Fabrication Route for Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 8940-8951.	2.5	7
41	Effect of Microstructural Bands on the Localized Corrosion of Laser Surface-Melted 316L Stainless Steel. <i>Corrosion</i> , 2021, 77, 1014-1024.	0.5	4
42	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, , .	1.5	3
43	A review of the rational interfacial designs and characterizations for solid-state lithium/sulfur cells. <i>Electrochemical Science Advances</i> , 2022, 2, .	1.2	1
44	Sulfur Cathode. , 2017, , 31-103.		0
45	(Invited) Microstructural Design Strategies of Sulfur Electrodes for High Specific Energy Lithium/Sulfur Cells. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 489-489.	0.0	0
46	Three-Dimensionally Aligned Sulfur Electrodes by Directional Freeze Tape Casting. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0