

Yoon Hwa

List of Publications by Citations

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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 | Characterizations and electrochemical behaviors of disproportionated SiO and its composite for rechargeable Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4854 | | 195 |
| 41 | Modified SiO as a high performance anode for Li-ion batteries. <i>Journal of Power Sources</i> , 2013 , 222, 129-134 | 8.34 | 136 |
| 40 | Scalable synthesis of silicon nanosheets from sand as an anode for Li-ion batteries. <i>Nanoscale</i> , 2014 , 6, 4297-302 | 7.7 | 131 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 34 | Nanostructured Zn-based composite anodes for rechargeable Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12767 | | 79 |
| 33 | 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 |
| 32 | 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 | | 78 |
| 31 | 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 |
| 30 | Nanosize Si anode embedded in super-elastic nitinol (NiTi) shape memory alloy matrix for Li rechargeable batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11213 | | 69 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 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 |

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| 25 | Carbon coating for Si nanomaterials as high-capacity lithium battery electrodes. <i>Electrochemistry Communications</i> , 2014 , 46, 144-147 | 5.1 | 35 |
| 24 | Aqueous-Processable Redox-Active Supramolecular Polymer Binders for Advanced Lithium/Sulfur Cells. <i>Chemistry of Materials</i> , 2018 , 30, 685-691 | 9.6 | 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 | 13 | 33 |
| 22 | Effect of oxide layer thickness to nano-Si anode for Li-ion batteries. <i>RSC Advances</i> , 2013 , 3, 9408 | 3.7 | 31 |
| 21 | The effect of Cu addition on Ge-based composite anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2010 , 55, 3324-3329 | 6.7 | 30 |
| 20 | 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 |
| 19 | Zinc Phosphides as Outstanding Sodium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15053-15062 | 9.5 | 23 |
| 18 | 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 | 8.9 | 20 |
| 17 | Three-Dimensionally Aligned Sulfur Electrodes by Directional Freeze Tape Casting. <i>Nano Letters</i> , 2019 , 19, 4731-4737 | 11.5 | 19 |
| 16 | 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 |
| 15 | 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 |
| 14 | Direct Visualization of Lithium Polysulfides and Their Suppression in Liquid Electrolyte. <i>Nano Letters</i> , 2020 , 20, 2080-2086 | 11.5 | 14 |
| 13 | 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 |
| 12 | 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 |
| 11 | A sustainable sulfur-carbonaceous composite electrode toward high specific energy rechargeable cells. <i>Materials Horizons</i> , 2020 , 7, 524-529 | 14.4 | 8 |
| 10 | High lithium sulfide loading electrodes for practical Li/S cells with high specific energy. <i>Nano Energy</i> , 2019 , 64, 103891 | 17.1 | 6 |
| 9 | 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 |
| 8 | Polymeric binders for the sulfur electrode compatible with ionic liquid containing electrolytes. <i>Electrochimica Acta</i> , 2018 , 271, 103-109 | 6.7 | 5 |

- 7 Nanostructured Sulfur and Sulfides for Advanced Lithium/Sulfur Cells. *ChemElectroChem*, **2020**, 7, 3927-3942 4
- 6 A Perspective on Li/S Battery Design: Modeling and Development Approaches. *Batteries*, **2021**, 7, 82 5.7 2
- 5 Effect of Microstructural Bands on the Localized Corrosion of Laser Surface-Melted 316L Stainless Steel. *Corrosion*, **2021**, 77, 1014-1024 1.8 2
- 4 Laser-based three-dimensional manufacturing technologies for rechargeable batteries. *Nano Convergence*, **2021**, 8, 23 9.2 2
- 3 Novel high-performance Ga₂Te₃ anodes for Li-ion batteries. *Journal of Materials Chemistry A*, **2021**, 9, 20553-20564 13 0
- 2 Sulfur Cathode **2017**, 31-103
- 1 A review of the rational interfacial designs and characterizations for solid-state lithium/sulfur cells. *Electrochemical Science Advances*,