

Jihoon Ahn

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,285
citations

516561

16
h-index

526166

27
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27
all docs

27
docs citations

27
times ranked

2265
citing authors

#	ARTICLE	IF	CITATIONS
1	A new class of chiral semiconductors: chiral-organic-molecule-incorporating organic-inorganic hybrid perovskites. <i>Materials Horizons</i> , 2017, 4, 851-856.	6.4	269
2	Chiral 2D Organic Inorganic Hybrid Perovskite with Circular Dichroism Tunable Over Wide Wavelength Range. <i>Journal of the American Chemical Society</i> , 2020, 142, 4206-4212.	6.6	151
3	All-Solution-Processed Silver Nanowire Window Electrode-Based Flexible Perovskite Solar Cells Enabled with Amorphous Metal Oxide Protection. <i>Advanced Energy Materials</i> , 2018, 8, 1702182.	10.2	108
4	Chiral Perovskites for Next-Generation Photonics: From Chirality Transfer to Chiroptical Activity. <i>Advanced Materials</i> , 2021, 33, e2005760.	11.1	107
5	Adjusting the Anisotropy of 1D Sb ₂ Se ₃ Nanostructures for Highly Efficient Photoelectrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1702888.	10.2	89
6	Highly porous carbon-coated silicon nanoparticles with canyon-like surfaces as a high-performance anode material for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3028-3037.	5.2	70
7	Metal-Nanowire-Electrode-Based Perovskite Solar Cells: Challenging Issues and New Opportunities. <i>Advanced Energy Materials</i> , 2017, 7, 1602751.	10.2	62
8	Variation in Crystalline Phases: Controlling the Selectivity between Silicon and Silicon Carbide via Magnesiothermic Reduction using Silica/Carbon Composites. <i>Chemistry of Materials</i> , 2016, 28, 1526-1536.	3.2	47
9	Titanium Silicide Coated Porous Silicon Nanospheres as Anode Materials for Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2015, 151, 256-262.	2.6	46
10	Investigating Recombination and Charge Carrier Dynamics in a One-Dimensional Nanopillared Perovskite Absorber. <i>ACS Nano</i> , 2018, 12, 4233-4245.	7.3	44
11	A pre-strain strategy for developing a highly stretchable and foldable one-dimensional conductive cord based on a Ag nanowire network. <i>Nanoscale</i> , 2017, 9, 5773-5778.	2.8	41
12	Elucidating the origin of chiroptical activity in chiral 2D perovskites through nano-confined growth. <i>Nature Communications</i> , 2022, 13, .	5.8	41
13	Effect of PEDOT:PSS Coating on Manganese Oxide Nanowires for Lithium Ion Battery Anodes. <i>Electrochimica Acta</i> , 2016, 187, 340-347.	2.6	39
14	Activation of micropore-confined sulfur within hierarchical porous carbon for lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2016, 306, 617-622.	4.0	36
15	Thermally driven <i>in situ</i> exsolution of Ni nanoparticles from (Ni, Gd)CeO ₂ for high-performance solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18133-18142.	5.2	32
16	Facile Sol-Gel-Derived Craterlike Dual-Functioning TiO ₂ Electron Transport Layer for High-Efficiency Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14649-14658.	4.0	18
17	Elucidating Relationships between Structural Properties of Nanoporous Carbonaceous Shells and Electrochemical Performances of Si@Carbon Anodes for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10255-10265.	1.5	15
18	Enhanced compatibility between a copper nanowire-based transparent electrode and a hybrid perovskite absorber by poly(ethylenimine). <i>Nanoscale</i> , 2017, 9, 17207-17211.	2.8	15

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19	Sea Sand-Derived Magnesium Silicide as a Reactive Precursor for Silicon-Based Composite Electrodes of Lithium-Ion Battery. <i>Electrochimica Acta</i> , 2017, 245, 893-901.	2.6	13
20	Soft Template Strategy to Synthesize Iron Oxide@Titania Yolk-Shell Nanoparticles as High-Performance Anode Materials for Lithium-Ion Battery Applications. <i>Chemistry - A European Journal</i> , 2015, 21, 7954-7961.	1.7	12
21	Magnesiothermic Reduction-Enabled Synthesis of Si~Ge Alloy Nanoparticles with a Canyon-Like Surface Structure for Li-Ion Battery. <i>ChemElectroChem</i> , 2018, 5, 2729-2733.	1.7	11
22	Arsonic Acid As a Robust Anchor Group for the Surface Modification of Fe ₃ O ₄ . <i>Langmuir</i> , 2013, 29, 14912-14918.	1.6	8
23	Porosity- and content-controlled metal/metal oxide/metal carbide@carbon (M/MO/MC@C) composites derived from MOFs: mechanism study and application for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2018, 42, 18678-18689.	1.4	5
24	Perovskite Solar Cells: Metal-Nanowire-Electrode-Based Perovskite Solar Cells: Challenging Issues and New Opportunities (<i>Adv. Energy Mater.</i> 15/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	10.2	1
25	Chiral Perovskites for Next-Generation Photonics: From Chirality Transfer to Chiroptical Activity (<i>Adv. Mater.</i> 47/2021). <i>Advanced Materials</i> , 2021, 33, 2170369.	11.1	1