

Sunmoon Yu

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

2,115
citations

304743

22
h-index

501196

28
g-index

30
all docs

30
docs citations

30
times ranked

3582
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospun nanofibers as a platform for advanced secondary batteries: a comprehensive review. <i>Journal of Materials Chemistry A</i> , 2016, 4, 703-750.	10.3	350
2	Nanoscale PdO Catalyst Functionalized Co ₃ O ₄ Hollow Nanocages Using MOF Templates for Selective Detection of Acetone Molecules in Exhaled Breath. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8201-8210.	8.0	240
3	Cu-Ag Tandem Catalysts for High-Rate CO ₂ Electrolysis toward Multicarbon. <i>Joule</i> , 2020, 4, 1688-1699.	24.0	239
4	2D WS ₂ -edge functionalized multi-channel carbon nanofibers: effect of WS ₂ edge-abundant structure on room temperature NO ₂ sensing. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8725-8732.	10.3	122
5	Single layers of WS ₂ nanoplates embedded in nitrogen-doped carbon nanofibers as anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2015, 7, 11945-11950.	5.6	104
6	Lead-free Cesium Europium Halide Perovskite Nanocrystals. <i>Nano Letters</i> , 2020, 20, 3734-3739.	9.1	103
7	Selective CO ₂ electrocatalysis at the pseudocapacitive nanoparticle/ordered-ligand interlayer. <i>Nature Energy</i> , 2020, 5, 1032-1042.	39.5	99
8	Electrochemically scrambled nanocrystals are catalytically active for CO ₂ -to-multicarbon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9194-9201.	7.1	99
9	Rational Design of Efficient Electrocatalysts for Hydrogen Evolution Reaction: Single Layers of WS ₂ Nanoplates Anchored to Hollow Nitrogen-Doped Carbon Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28116-28121.	8.0	92
10	Mesoporous orthorhombic Nb ₂ O ₅ nanofibers as pseudocapacitive electrodes with ultra-stable Li storage characteristics. <i>Journal of Power Sources</i> , 2017, 360, 434-442.	7.8	68
11	Dimensional Effects of MoS ₂ Nanoplates Embedded in Carbon Nanofibers for Bifunctional Li and Na Insertion and Conversion Reactions. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26758-26768.	8.0	62
12	Metal Chelation Assisted In Situ Migration and Functionalization of Catalysts on Peapod-Like Hollow SnO ₂ toward a Superior Chemical Sensor. <i>Small</i> , 2016, 12, 5989-5997.	10.0	61
13	Rational design of protective In ₂ O ₃ layer-coated carbon nanopaper membrane: Toward stable cathode for long-cycle Li-O ₂ batteries. <i>Nano Energy</i> , 2018, 46, 193-202.	16.0	58
14	Photoelectrochemical CO ₂ Reduction toward Multicarbon Products with Silicon Nanowire Photocathodes Interfaced with Copper Nanoparticles. <i>Journal of the American Chemical Society</i> , 2022, 144, 8002-8006.	13.7	46
15	The Interactive Dynamics of Nanocatalyst Structure and Microenvironment during Electrochemical CO ₂ Conversion. <i>Jacs Au</i> , 2022, 2, 562-572.	7.9	44
16	Copper(I)-Based Highly Emissive All-Inorganic Rare-Earth Halide Clusters. <i>Matter</i> , 2019, 1, 180-191.	10.0	35
17	Kinetics of moisture-induced phase transformation in inorganic halide perovskite. <i>Matter</i> , 2021, 4, 2392-2402.	10.0	34
18	Nanoparticle Assembly Induced Ligand Interactions for Enhanced Electrocatalytic CO ₂ Conversion. <i>Journal of the American Chemical Society</i> , 2021, 143, 19919-19927.	13.7	32

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19	Improved high temperature integration of Al ₂ O ₃ on MoS ₂ by using a metal oxide buffer layer. Applied Physics Letters, 2015, 106, .	3.3	31
20	Conducting Nanopaper: A Carbon-Free Cathode Platform for Li ⁺ /O ₂ Batteries. ACS Energy Letters, 2017, 2, 673-680.	17.4	30
21	Scaling Laws of Exciton Recombination Kinetics in Low Dimensional Halide Perovskite Nanostructures. Journal of the American Chemical Society, 2020, 142, 8871-8879.	13.7	26
22	Sulfur-doped graphene anchoring of ultrafine Au ₂₅ nanoclusters for electrocatalysis. Nano Research, 2021, 14, 3509-3513.	10.4	26
23	Heterostructured Au ⁺ /Ir Catalysts for Enhanced Oxygen Evolution Reaction. , 2021, 3, 1440-1447.		20
24	Revealing the Phase Separation Behavior of Thermodynamically Immiscible Elements in a Nanoparticle. Nano Letters, 2021, 21, 6684-6689.	9.1	18
25	<i>Operando</i> Resonant Soft X-ray Scattering Studies of Chemical Environment and Interparticle Dynamics of Cu Nanocatalysts for CO ₂ Electroreduction. Journal of the American Chemical Society, 2022, 144, 8927-8931.	13.7	18
26	The presence and role of the intermediary CO reservoir in heterogeneous electroreduction of CO ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2201922119.	7.1	17
27	Ligand removal of Au ₂₅ nanoclusters by thermal and electrochemical treatments for selective CO ₂ electroreduction to CO. Journal of Chemical Physics, 2021, 155, 051101.	3.0	16
28	Photosynthetic biohybrid coculture for tandem and tunable CO ₂ and N ₂ fixation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	14
29	A New Perspective and Design Principle for Halide Perovskites: Ionic Octahedron Network (ION). Nano Letters, 2021, 21, 5415-5421.	9.1	9