

Liheng Wu

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

5,734
citations

279798

23
h-index

434195

31
g-index

33
all docs

33
docs citations

33
times ranked

10732
citing authors

#	ARTICLE	IF	CITATIONS
1	Utilization of machine learning to accelerate colloidal synthesis and discovery. <i>Journal of Chemical Physics</i> , 2021, 154, 224201.	3.0	9
2	Engineering of Ruthenium-iron Oxide Colloidal Heterostructures: Improved Yields in CO ₂ Hydrogenation to Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17451-17457.	13.8	49
3	Engineering of Ruthenium-iron Oxide Colloidal Heterostructures: Improved Yields in CO ₂ Hydrogenation to Hydrocarbons. <i>Angewandte Chemie</i> , 2019, 131, 17612-17618.	2.0	7
4	Tuning Precursor Reactivity toward Nanometer-Size Control in Palladium Nanoparticles Studied by in Situ Small Angle X-ray Scattering. <i>Chemistry of Materials</i> , 2018, 30, 1127-1135.	6.7	43
5	Low-Temperature Restructuring of CeO ₂ -Supported Ru Nanoparticles Determines Selectivity in CO ₂ Catalytic Reduction. <i>Journal of the American Chemical Society</i> , 2018, 140, 13736-13745.	13.7	210
6	In Situ X-ray Scattering Guides the Synthesis of Uniform PtSn Nanocrystals. <i>Nano Letters</i> , 2018, 18, 4053-4057.	9.1	43
7	Low-Temperature Methane Partial Oxidation to Syngas with Modular Nanocrystal Catalysts. <i>ACS Applied Nano Materials</i> , 2018, 1, 5258-5267.	5.0	16
8	Tuning Sn-Catalysis for Electrochemical Reduction of CO ₂ to CO via the Core/Shell Cu/SnO ₂ Structure. <i>Journal of the American Chemical Society</i> , 2017, 139, 4290-4293.	13.7	553
9	Systematic Structure-Property Relationship Studies in Palladium-Catalyzed Methane Complete Combustion. <i>ACS Catalysis</i> , 2017, 7, 7810-7821.	11.2	151
10	High-temperature crystallization of nanocrystals into three-dimensional superlattices. <i>Nature</i> , 2017, 548, 197-201.	27.8	101
11	Stabilizing Fe Nanoparticles in the SmCo ₅ Matrix. <i>Nano Letters</i> , 2017, 17, 5695-5698.	9.1	44
12	Systematic Identification of Promoters for Methane Oxidation Catalysts Using Size- and Composition-Controlled Pd-Based Bimetallic Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 11989-11997.	13.7	109
13	Well-Defined Metal Nanoparticles for Electrocatalysis. <i>Studies in Surface Science and Catalysis</i> , 2017, , 123-148.	1.5	4
14	Organic Phase Syntheses of Magnetic Nanoparticles and Their Applications. <i>Chemical Reviews</i> , 2016, 116, 10473-10512.	47.7	492
15	Stable Cobalt Nanoparticles and Their Monolayer Array as an Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2015, 137, 7071-7074.	13.7	299
16	New Approach to Fully Ordered fct-FePt Nanoparticles for Much Enhanced Electrocatalysis in Acid. <i>Nano Letters</i> , 2015, 15, 2468-2473.	9.1	385
17	Core/Shell Face-Centered Tetragonal FePd/Pd Nanoparticles as an Efficient Non-Pt Catalyst for the Oxygen Reduction Reaction. <i>ACS Nano</i> , 2015, 9, 11014-11022.	14.6	165
18	Synthesis and assembly of barium-doped iron oxide nanoparticles and nanomagnets. <i>Nanoscale</i> , 2015, 7, 16165-16169.	5.6	17

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19	Enzymatic Transformation of Phosphate Decorated Magnetic Nanoparticles for Selectively Sorting and Inhibiting Cancer Cells. <i>Bioconjugate Chemistry</i> , 2014, 25, 2129-2133.	3.6	24
20	Halide ion-mediated growth of single crystalline Fe nanoparticles. <i>Nanoscale</i> , 2014, 6, 4852-4856.	5.6	41
21	Developing and Implementing a Simple, Affordable Hydrogen Fuel Cell Laboratory in Introductory Chemistry. <i>Journal of Chemical Education</i> , 2014, 91, 1924-1928.	2.3	9
22	Monolayer Assembly of Ferrimagnetic $\text{Co}_x\text{Fe}_{3-x}\text{O}_4$ Nanocubes for Magnetic Recording. <i>Nano Letters</i> , 2014, 14, 3395-3399.	9.1	117
23	Monodisperse $\text{M}_x\text{Fe}_3\text{O}_4$ (M = Fe, Cu, Co, Mn) Nanoparticles and Their Electrocatalysis for Oxygen Reduction Reaction. <i>Nano Letters</i> , 2013, 13, 2947-2951.	9.1	421
24	Co/CoO Nanoparticles Assembled on Graphene for Electrochemical Reduction of Oxygen. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11770-11773.	13.8	391
25	Unique Lamellar Sodium/Potassium Iron Oxide Nanosheets: Facile Microwave-Assisted Synthesis and Magnetic and Electrochemical Properties. <i>Chemistry of Materials</i> , 2011, 23, 3946-3952.	6.7	42
26	Hierarchical silver indium tungsten oxide mesocrystals with morphology-, pressure-, and temperature-dependent luminescence properties. <i>Nano Research</i> , 2010, 3, 395-403.	10.4	22
27	Engineering Carbon Materials from the Hydrothermal Carbonization Process of Biomass. <i>Advanced Materials</i> , 2010, 22, 813-828.	21.0	1,492
28	Biologically Inspired, Strong, Transparent, and Functional Layered Organic-Inorganic Hybrid Films. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2140-2145.	13.8	171
29	Microwave-assisted synthesis of silver indium tungsten oxide mesocrystals and their selective photocatalytic properties. <i>Chemical Communications</i> , 2010, 46, 2277.	4.1	79
30	Direct fabrication of photoconductive patterns on LBL assembled graphene oxide/PDDA/titania hybrid films by photothermal and photocatalytic reduction. <i>Journal of Materials Chemistry</i> , 2010, 20, 5190.	6.7	94