Liheng Wu

List of Publications by Year
in descending order

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	Engineering Carbon Materials from the Hydrothermal Carbonization Process of Biomass. Advanced Materials, 2010, 22, 813-828.	21.0	1,492
2	Tuning Sn-Catalysis for Electrochemical Reduction of CO₂ to CO via the Core/Shell Cu/SnO₂ Structure. Journal of the American Chemical Society, 2017, 139, 4290-4293.	13.7	553
3	Organic Phase Syntheses of Magnetic Nanoparticles and Their Applications. Chemical Reviews, 2016, 116, 10473-10512.	47.7	492
4	Monodisperse M_xFe_{3â€“x}O₄(M = Fe, Cu, Co, Mn) Nanoparticles and Their Electrocatalysis for Oxygen Reduction Reaction. Nano Letters, 2013, 13, 2947-2951.	9.1	421
5	Co/CoO Nanoparticles Assembled on Graphene for Electrochemical Reduction of Oxygen. Angewandte Chemie - International Edition, 2012, 51, 11770-11773.	13.8	391
6	New Approach to Fully Ordered fct-FePt Nanoparticles for Much Enhanced Electrocatalysis in Acid. Nano Letters, 2015, 15, 2468-2473.	9.1	385
7	Stable Cobalt Nanoparticles and Their Monolayer Array as an Efficient Electrocatalyst for Oxygen Evolution Reaction. Journal of the American Chemical Society, 2015, 137, 7071-7074.	13.7	299
8	Low-Temperature Restructuring of CeO₂-Supported Ru Nanoparticles Determines Selectivity in CO₂ Catalytic Reduction. Journal of the American Chemical Society, 2018, 140, 13736-13745.	13.7	210
9	Biologically Inspired, Strong, Transparent, and Functional Layered Organicâ€“Inorganic Hybrid Films. Angewandte Chemie - International Edition, 2010, 49, 2140-2145.	13.8	171
10	Core/Shell Face-Centered Tetragonal FePd/Pd Nanoparticles as an Efficient Non-Pt Catalyst for the Oxygen Reduction Reaction. ACS Nano, 2015, 9, 11014-11022.	14.6	165
11	Systematic Structureâ€“Property Relationship Studies in Palladium-Catalyzed Methane Complete Combustion. ACS Catalysis, 2017, 7, 7810-7821.	11.2	151
12	Monolayer Assembly of Ferrimagnetic Co_xFe_{3â€“x}O₄ Nanocubes for Magnetic Recording. Nano Letters, 2014, 14, 3395-3399.	9.1	117
13	Systematic Identification of Promoters for Methane Oxidation Catalysts Using Size- and Composition-Controlled Pd-Based Bimetallic Nanocrystals. Journal of the American Chemical Society, 2017, 139, 11989-11997.	13.7	109
14	High-temperature crystallization of nanocrystals into three-dimensional superlattices. Nature, 2017, 548, 197-201.	27.8	101
15	Direct fabrication of photoconductive patterns on LBL assembled graphene oxide/PDDA/titania hybrid films by photothermal and photocatalytic reduction. Journal of Materials Chemistry, 2010, 20, 5190.	6.7	94
16	Microwave-assisted synthesis of silver indium tungsten oxide mesocrystals and their selective photocatalytic properties. Chemical Communications, 2010, 46, 2277.	4.1	79
17	Engineering of Rutheniumâ€“Iron Oxide Colloidal Heterostructures: Improved Yields in CO₂ Hydrogenation to Hydrocarbons. Angewandte Chemie - International Edition, 2019, 58, 17451-17457.	13.8	49
18	Stabilizing Fe Nanoparticles in the SmCo₅ Matrix. Nano Letters, 2017, 17, 5695-5698.	9.1	44

#	Article	IF	Citations
19	Tuning Precursor Reactivity toward Nanometer-Size Control in Palladium Nanoparticles Studied by in Situ Small Angle X-ray Scattering. Chemistry of Materials, 2018, 30, 1127-1135.	6.7	43
20	In Situ X-ray Scattering Guides the Synthesis of Uniform PtSn Nanocrystals. Nano Letters, 2018, 18, 4053-4057.	9.1	43
21	Unique Lamellar Sodium/Potassium Iron Oxide Nanosheets: Facile Microwave-Assisted Synthesis and Magnetic and Electrochemical Properties. Chemistry of Materials, 2011, 23, 3946-3952.	6.7	42
22	Halide ion-mediated growth of single crystalline Fe nanoparticles. Nanoscale, 2014, 6, 4852-4856.	5.6	41
23	Enzymatic Transformation of Phosphate Decorated Magnetic Nanoparticles for Selectively Sorting and Inhibiting Cancer Cells. Bioconjugate Chemistry, 2014, 25, 2129-2133.	3.6	24
24	Hierarchical silver indium tungsten oxide mesocrystals with morphology-, pressure-, and temperature-dependent luminescence properties. Nano Research, 2010, 3, 395-403.	10.4	22
25	Synthesis and assembly of barium-doped iron oxide nanoparticles and nanomagnets. Nanoscale, 2015, 7, 16165-16169.	5.6	17
26	Low-Temperature Methane Partial Oxidation to Syngas with Modular Nanocrystal Catalysts. ACS Applied Nano Materials, 2018, 1, 5258-5267.	5.0	16
27	Developing and Implementing a Simple, Affordable Hydrogen Fuel Cell Laboratory in Introductory Chemistry. Journal of Chemical Education, 2014, 91, 1924-1928.	2.3	9
28	Utilization of machine learning to accelerate colloidal synthesis and discovery. Journal of Chemical Physics, 2021, 154, 224201.	3.0	9
29	Engineering of Rutheniumâ€“Iron Oxide Colloidal Heterostructures: Improved Yields in CO₂ Hydrogenation to Hydrocarbons. Angewandte Chemie, 2019, 131, 17612-17618.	2.0	7
30	Well-Defined Metal Nanoparticles for Electrocatalysis. Studies in Surface Science and Catalysis, 2017, , 123-148.	1.5	4