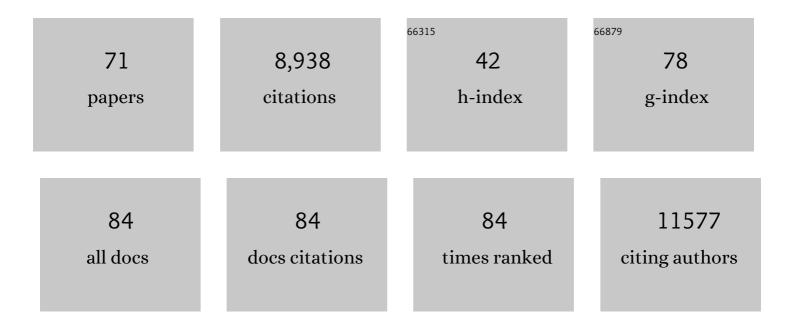
Sen Zhang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3217101/publications.pdf Version: 2024-02-01



SEN ZHANC

#	Article	IF	CITATIONS
1	Electrocatalytic nitrate reduction on bimetallic Palladium-Copper Nanowires: Key surface structure for selective dinitrogen formation. Chemical Engineering Journal, 2022, 435, 134969.	6.6	20
2	General Synthetic Strategy to Ordered Mesoporous Carbon Catalysts with Singleâ€Atom Metal Sites for Electrochemical CO ₂ Reduction. Small, 2022, 18, e2107799.	5.2	13
3	General Synthetic Strategy to Ordered Mesoporous Carbon Catalysts with Singleâ€Atom Metal Sites for Electrochemical CO ₂ Reduction (Small 16/2022). Small, 2022, 18, .	5.2	3
4	Oxidative Alkenylation of Arenes Using Supported Rh Materials: Evidence that Active Catalysts are Formed by Rh Leaching. ChemCatChem, 2021, 13, 260-270.	1.8	9
5	Engineering the defects of Co3O4- bubbles in lotus root-like multichannel nanofibers to realize superior performance and high durability for fiber-shaped hybrid Zn battery. Chemical Engineering Journal, 2021, 407, 127043.	6.6	18
6	Oxygen evolution reaction over catalytic single-site Co in a well-defined brookite TiO2 nanorod surface. Nature Catalysis, 2021, 4, 36-45.	16.1	189
7	Electrocatalytic reduction of furfural with high selectivity to furfuryl alcohol using AgPd alloy nanoparticles. Nanoscale, 2021, 13, 2312-2316.	2.8	17
8	Surface Ligand Environment Boosts the Electrocatalytic Hydrodechlorination Reaction on Palladium Nanoparticles. ACS Applied Materials & Interfaces, 2021, 13, 4072-4083.	4.0	38
9	Surfactant Removal for Colloidal Nanocrystal Catalysts Mediated by N-Heterocyclic Carbenes. Journal of the American Chemical Society, 2021, 143, 2644-2648.	6.6	25
10	Electrocatalytic Water Oxidation by a Trinuclear Copper(II) Complex. ACS Catalysis, 2021, 11, 7223-7240.	5.5	35
11	Noncovalent Immobilization of Pentamethylcyclopentadienyl Iridium Complexes on Ordered Mesoporous Carbon for Electrocatalytic Water Oxidation. Small Science, 2021, 1, 2100037.	5.8	7
12	Effect of Ni particle size on the production of renewable methane from CO2 over Ni/CeO2 catalyst. Journal of Energy Chemistry, 2021, 61, 602-611.	7.1	51
13	Reversing sintering effect of Ni particles on \hat{I}^3 -Mo2N via strong metal support interaction. Nature Communications, 2021, 12, 6978.	5.8	58
14	Immobilization of "Capping Arene―Cobalt(II) Complexes on Ordered Mesoporous Carbon for Electrocatalytic Water Oxidation. ACS Catalysis, 2021, 11, 15068-15082.	5.5	8
15	Monodisperse PdSn/SnO _x core/shell nanoparticles with superior electrocatalytic ethanol oxidation performance. Journal of Materials Chemistry A, 2020, 8, 20931-20938.	5.2	33
16	Effects of Additives on Catalytic Arene C–H Activation: Study of Rh Catalysts Supported by Bis-phosphine Pincer Ligands. Organometallics, 2020, 39, 3918-3935.	1.1	4
17	Two-Dimensional Metal Organic Framework Nanosheets as Bifunctional Catalyst for Electrochemical and Photoelectrochemical Water Oxidation. Frontiers in Chemistry, 2020, 8, 604239.	1.8	12
18	AgPd nanoparticles for electrocatalytic CO ₂ reduction: bimetallic composition-dependent ligand and ensemble effects. Nanoscale, 2020, 12, 14068-14075.	2.8	36

Sen Zhang

#	Article	IF	CITATIONS
19	22% Efficiency Inverted Perovskite Photovoltaic Cell Using Cationâ€Doped Brookite TiO ₂ Top Buffer. Advanced Science, 2020, 7, 2001285.	5.6	43
20	Programmable Synthesis of Multimetallic Phosphide Nanorods Mediated by Core/Shell Structure Formation and Conversion. Journal of the American Chemical Society, 2020, 142, 8490-8497.	6.6	65
21	(Invited) Controlling Multi-Component Colloidal Nanocrystal Surface and Interface for Enhanced Electrocatalysis. ECS Meeting Abstracts, 2020, MA2020-01, 1143-1143.	0.0	0
22	Ultrathin two-dimensional metallic nanocrystals for renewable energy electrocatalysis. Materials Today, 2019, 23, 45-56.	8.3	64
23	Styrene Production from Benzene and Ethylene Catalyzed by Palladium(II): Enhancement of Selectivity toward Styrene via Temperature-dependent Vinyl Ester Consumption. Organometallics, 2019, 38, 3532-3541.	1.1	15
24	Mechanistic Studies of Single-Step Styrene Production Catalyzed by Rh Complexes with Diimine Ligands: An Evaluation of the Role of Ligands and Induction Period. ACS Catalysis, 2019, 9, 7457-7475.	5.5	23
25	Generalized Synthetic Strategy for Transition-Metal-Doped Brookite-Phase TiO ₂ Nanorods. Journal of the American Chemical Society, 2019, 141, 16548-16552.	6.6	78
26	Bimetallic Composition-Promoted Electrocatalytic Hydrodechlorination Reaction on Silver–Palladium Alloy Nanoparticles. ACS Catalysis, 2019, 9, 10803-10811.	5.5	115
27	Revealing structural evolution of PbS nanocrystal catalysts in electrochemical CO ₂ reduction using <i>in situ</i> synchrotron radiation X-ray diffraction. Journal of Materials Chemistry A, 2019, 7, 23775-23780.	5.2	24
28	Ru/CeO ₂ Catalyst with Optimized CeO ₂ Support Morphology and Surface Facets for Propane Combustion. Environmental Science & Technology, 2019, 53, 5349-5358.	4.6	228
29	Editorial: Photocatalysis for Environmental Applications. Frontiers in Chemistry, 2019, 7, 303.	1.8	7
30	In Situ Transmission Electron Microscopy for Energy Applications. Joule, 2019, 3, 4-8.	11.7	69
31	MgAl layered double oxide: One powerful sweeper of emulsified water and acid for oil purification. Journal of Hazardous Materials, 2019, 367, 658-667.	6.5	28
32	Bimetallic synergy in cobalt–palladium nanocatalysts for CO oxidation. Nature Catalysis, 2019, 2, 78-85.	16.1	195
33	Electrocatalytic hydrodechlorination of 2,4-dichlorophenol over palladium nanoparticles and its pH-mediated tug-of-war with hydrogen evolution. Chemical Engineering Journal, 2018, 348, 26-34.	6.6	104
34	Favorable Core/Shell Interface within Co ₂ P/Pt Nanorods for Oxygen Reduction Electrocatalysis. Nano Letters, 2018, 18, 7870-7875.	4.5	68
35	Heterostructure-Promoted Oxygen Electrocatalysis Enables Rechargeable Zinc–Air Battery with Neutral Aqueous Electrolyte. Journal of the American Chemical Society, 2018, 140, 17624-17631.	6.6	258
36	Phosphate-Functionalized CeO ₂ Nanosheets for Efficient Catalytic Oxidation of Dichloromethane. Environmental Science & Technology, 2018, 52, 13430-13437.	4.6	128

Sen Zhang

#	Article	IF	CITATIONS
37	Photocatalytic Hydrogen Evolution from Substoichiometric Colloidal WO _{3–<i>x</i>} Nanowires. ACS Energy Letters, 2018, 3, 1904-1910.	8.8	145
38	The Spatially Oriented Charge Flow and Photocatalysis Mechanism on Internal van der Waals Heterostructures Enhanced g-C ₃ N ₄ . ACS Catalysis, 2018, 8, 8376-8385.	5.5	219
39	Enhanced photocatalytic performance of carbon quantum dots/BiOBr composite and mechanism investigation. Chinese Chemical Letters, 2018, 29, 805-810.	4.8	80
40	Identification of Active Hydrogen Species on Palladium Nanoparticles for an Enhanced Electrocatalytic Hydrodechlorination of 2,4-Dichlorophenol in Water. Environmental Science & Technology, 2017, 51, 7599-7605.	4.6	249
41	Monodisperse bismuth nanoparticles decorated graphitic carbon nitride: Enhanced visible-light-response photocatalytic NO removal and reaction pathway. Applied Catalysis B: Environmental, 2017, 205, 532-540.	10.8	162
42	Calcium Sulfate Hemihydrate Nanowires: One Robust Material in Separation of Water from Water-in-Oil Emulsion. Environmental Science & amp; Technology, 2017, 51, 10519-10525.	4.6	37
43	Immobilizing Water into Crystal Lattice of Calcium Sulfate for its Separation from Water-in-Oil Emulsion. Environmental Science & Technology, 2016, 50, 7650-7657.	4.6	45
44	Visualizing non-equilibrium lithiation of spinel oxide via in situ transmission electron microscopy. Nature Communications, 2016, 7, 11441.	5.8	162
45	Controlled synthesis of Au–Fe heterodimer nanoparticles and their conversion into Au–Fe ₃ O ₄ heterostructured nanoparticles. Nanoscale, 2016, 8, 17947-17952.	2.8	44
46	New Approach to Fully Ordered fct-FePt Nanoparticles for Much Enhanced Electrocatalysis in Acid. Nano Letters, 2015, 15, 2468-2473.	4.5	385
47	Synthesis and X-ray Characterization of Cobalt Phosphide (Co ₂ P) Nanorods for the Oxygen Reduction Reaction. ACS Nano, 2015, 9, 8108-8115.	7.3	132
48	Surface Profile Control of FeNiPt/Pt Core/Shell Nanowires for Oxygen Reduction Reaction. Small, 2015, 11, 3545-3549.	5.2	61
49	Tailoring Nanoparticle Electrocatalysts for Proton Exchange Membrane Fuel Cells. , 2015, , 275-300.		1
50	Controlled synthesis of monodisperse α-calcium sulfate hemihydrate nanoellipsoids with a porous structure. Physical Chemistry Chemical Physics, 2015, 17, 11509-11515.	1.3	19
51	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.	7.3	165
52	Core/Shell Au/MnO Nanoparticles Prepared Through Controlled Oxidation of AuMn as an Electrocatalyst for Sensitive H ₂ O ₂ Detection. Angewandte Chemie - International Edition, 2014, 53, 12508-12512.	7.2	84
53	Halide ion-mediated growth of single crystalline Fe nanoparticles. Nanoscale, 2014, 6, 4852-4856.	2.8	41
54	Monodisperse Core/Shell Ni/FePt Nanoparticles and Their Conversion to Ni/Pt to Catalyze Oxygen Reduction. Journal of the American Chemical Society, 2014, 136, 15921-15924.	6.6	165

SEN ZHANG

#	Article	IF	CITATIONS
55	Tuning Nanoparticle Structure and Surface Strain for Catalysis Optimization. Journal of the American Chemical Society, 2014, 136, 7734-7739.	6.6	349
56	Monolayer Assembly of Ferrimagnetic Co _{<i>x</i>} Fe _{3–<i>x</i>} O ₄ Nanocubes for Magnetic Recording. Nano Letters, 2014, 14, 3395-3399.	4.5	117
57	Seed-Mediated Synthesis of Core/Shell FePtM/FePt (M = Pd, Au) Nanowires and Their Electrocatalysis for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2013, 135, 13879-13884.	6.6	269
58	FePt and CoPt Nanowires as Efficient Catalysts for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2013, 52, 3465-3468.	7.2	389
59	Monodisperse AgPd Alloy Nanoparticles and Their Superior Catalysis for the Dehydrogenation of Formic Acid. Angewandte Chemie - International Edition, 2013, 52, 3681-3684.	7.2	348
60	High-Temperature Solution-Phase Syntheses of Metal-Oxide Nanocrystals. Chemistry of Materials, 2013, 25, 1293-1304.	3.2	97
61	Synthetic Control of FePtM Nanorods (M = Cu, Ni) To Enhance the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2013, 135, 7130-7133.	6.6	250
62	Tuning Nanoparticle Catalysis for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2013, 52, 8526-8544.	7.2	902
63	Monodisperse M _{<i>x</i>} Fe _{3–<i>x</i>} O ₄ (M = Fe, Cu, Co, Mn) Nanoparticles and Their Electrocatalysis for Oxygen Reduction Reaction. Nano Letters, 2013, 13, 2947-2951.	4.5	421
64	Co/CoO Nanoparticles Assembled on Graphene for Electrochemical Reduction of Oxygen. Angewandte Chemie - International Edition, 2012, 51, 11770-11773.	7.2	391
65	Structure-Induced Enhancement in Electrooxidation of Trimetallic FePtAu Nanoparticles. Journal of the American Chemical Society, 2012, 134, 5060-5063.	6.6	185
66	Controlled Synthesis of Monodisperse Magnetic Nanoparticles in Solution Phase. The Open Surface Science Journal, 2012, 4, 26-34.	2.0	15
67	Synthesis of Ultrathin FePtPd Nanowires and Their Use as Catalysts for Methanol Oxidation Reaction. Journal of the American Chemical Society, 2011, 133, 15354-15357.	6.6	309
68	Multifunctional necklace-like Cu@cross-linked poly(vinyl alcohol) microcables with fluorescent property and their manipulation by an external magnet. Chemical Communications, 2009, , 2326.	2.2	8
69	High Yield Synthesis of Bracelet-like Hydrophilic Niâ^'Co Magnetic Alloy Flux-Closure Nanorings. Journal of the American Chemical Society, 2008, 130, 11606-11607.	6.6	164
70	Template-Free Hydrothermal Synthesis and Formation Mechanism of Hematite Microrings. Journal of Physical Chemistry C, 2008, 112, 19916-19921.	1.5	42
71	Preparation of Monodisperse Polystyrene Particles from Emulsifier-free Miniemulsion Polymerization. Chemistry Letters, 2008, 37, 1158-1159.	0.7	5