

Minghao Xie

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8991417/publications.pdf>

Version: 2024-02-01

40
papers

1,463
citations

331538

21
h-index

330025

37
g-index

41
all docs

41
docs citations

41
times ranked

1628
citing authors

#	ARTICLE	IF	CITATIONS
1	Pt@Co@Pt Octahedral Nanocrystals: Enhancing Their Activity and Durability toward Oxygen Reduction with an Intermetallic Core and an Ultrathin Shell. <i>Journal of the American Chemical Society</i> , 2021, 143, 8509-8518.	6.6	128
2	Ru Octahedral Nanocrystals with a Face-Centered Cubic Structure, {111} Facets, Thermal Stability up to 400 °C, and Enhanced Catalytic Activity. <i>Journal of the American Chemical Society</i> , 2019, 141, 7028-7036.	6.6	122
3	Controlling the Surface Oxidation of Cu Nanowires Improves Their Catalytic Selectivity and Stability toward C ₂₊ Products in CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1909-1915.	7.2	122
4	Pt@Cr@Pd Trimetallic Nanocages as a Dual Catalyst for Efficient Oxygen Reduction and Evolution Reactions in Acidic Media. <i>Advanced Energy Materials</i> , 2020, 10, 1904114.	10.2	100
5	Iridium-Based Cubic Nanocages with 1.1-nm-Thick Walls: A Highly Efficient and Durable Electrocatalyst for Water Oxidation in an Acidic Medium. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7244-7248.	7.2	89
6	Kinetically Controlled Synthesis of Pd@Cu Janus Nanocrystals with Enriched Surface Structures and Enhanced Catalytic Activities toward CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 149-162.	6.6	77
7	Catalytic System Based on Sub-2 nm Pt Particles and Its Extraordinary Activity and Durability for Oxygen Reduction. <i>Nano Letters</i> , 2019, 19, 4997-5002.	4.5	68
8	Facile Synthesis and Characterization of Pd@Ir _n L _n (n = 1-4) Core-Shell Nanocubes for Highly Efficient Oxygen Evolution in Acidic Media. <i>Chemistry of Materials</i> , 2019, 31, 5867-5875.	3.2	65
9	Incorporation of gold nanocages into electrospun nanofibers for efficient water evaporation through photothermal heating. <i>Materials Today Energy</i> , 2019, 12, 129-135.	2.5	54
10	Enabling Complete Ligand Exchange on the Surface of Gold Nanocrystals through the Deposition and Then Etching of Silver. <i>Journal of the American Chemical Society</i> , 2018, 140, 11898-11901.	6.6	53
11	General Approach to the Synthesis of Heterodimers of Metal Nanoparticles through Site-Selected Protection and Growth. <i>Nano Letters</i> , 2019, 19, 6703-6708.	4.5	51
12	Gold nanocages for effective photothermal conversion and related applications. <i>Chemical Science</i> , 2020, 11, 12955-12973.	3.7	46
13	Pd@Ru Alloy Nanocages with a Face-Centered Cubic Structure and Their Enhanced Activity toward the Oxidation of Ethylene Glycol and Glycerol. <i>Small Methods</i> , 2020, 4, 1900843.	4.6	46
14	Facet-controlled Pt@Ir nanocrystals with substantially enhanced activity and durability towards oxygen reduction. <i>Materials Today</i> , 2020, 35, 69-77.	8.3	45
15	Seed-Mediated Growth of Au Nanospheres into Hexagonal Stars and the Emergence of a Hexagonal Close-Packed Phase. <i>Nano Letters</i> , 2019, 19, 3115-3121.	4.5	44
16	Maximizing the Catalytic Performance of Pd@Au _x Pd _{1-x} Nanocubes in H ₂ O ₂ Production by Reducing Shell Thickness to Increase Compositional Stability. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19643-19647.	7.2	44
17	Twin-Directed Deposition of Pt on Pd Icosahedral Nanocrystals for Catalysts with Enhanced Activity and Durability toward Oxygen Reduction. <i>Nano Letters</i> , 2021, 21, 2248-2254.	4.5	36
18	Janus Nanocages of Platinum-Group Metals and Their Use as Effective Dual-Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10384-10392.	7.2	33

#	ARTICLE	IF	CITATIONS
19	A Rationally Designed Route to the One-Pot Synthesis of Right Bipyramidal Nanocrystals of Copper. <i>Chemistry of Materials</i> , 2018, 30, 6469-6477.	3.2	28
20	Kinetically Controlled Synthesis of Rhodium Nanocrystals with Different Shapes and a Comparison Study of Their Thermal and Catalytic Properties. <i>Journal of the American Chemical Society</i> , 2021, 143, 6293-6302.	6.6	26
21	How to Remove the Capping Agent from Pd Nanocubes without Destructing Their Surface Structure for the Maximization of Catalytic Activity?. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19129-19135.	7.2	24
22	Au@Cu Core-Shell Nanocubes with Controllable Sizes in the Range of 20-30 nm for Applications in Catalysis and Plasmonics. <i>ACS Applied Nano Materials</i> , 2019, 2, 1533-1540.	2.4	22
23	Enhancing the tactile and near-infrared sensing capabilities of electrospun PVDF nanofibers with the use of gold nanocages. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10263-10269.	2.7	18
24	Pt-Co truncated octahedral nanocrystals: a class of highly active and durable catalysts toward oxygen reduction. <i>Nanoscale</i> , 2020, 12, 11718-11727.	2.8	13
25	Controlling the Surface Oxidation of Cu Nanowires Improves Their Catalytic Selectivity and Stability toward C ₂ + Products in CO ₂ Reduction. <i>Angewandte Chemie</i> , 2021, 133, 1937-1943.	1.6	13
26	Iridium-Based Cubic Nanocages with 1.1-nm-Thick Walls: A Highly Efficient and Durable Electrocatalyst for Water Oxidation in an Acidic Medium. <i>Angewandte Chemie</i> , 2019, 131, 7322-7326.	1.6	12
27	A Quantitative Analysis of the Reduction Kinetics Involved in the Synthesis of Au@Pd Concave Nanocubes. <i>Chemistry - A European Journal</i> , 2019, 25, 16397-16404.	1.7	11
28	Facile Synthesis of Pt Icosahedral Nanocrystals with Controllable Sizes for the Evaluation of Size-Dependent Activity toward Oxygen Reduction. <i>ChemCatChem</i> , 2019, 11, 2458-2463.	1.8	11
29	Maximizing the Catalytic Performance of Pd@Au _x Pd _{1-x} Nanocubes in H ₂ O ₂ Production by Reducing Shell Thickness to Increase Compositional Stability. <i>Angewandte Chemie</i> , 2021, 133, 19795-19799.	1.6	11
30	A Mechanistic Study of the Multiple Roles of Oleic Acid in the Oil-Phase Synthesis of Pt Nanocrystals. <i>Chemistry - A European Journal</i> , 2020, 26, 15636-15642.	1.7	9
31	Calcination-Free Synthesis of Well-Dispersed and Sub-10-nm Spinel Ferrite Nanoparticles as High-Performance Anode Materials for Lithium-Ion Batteries: A Case Study of CoFe ₂ O ₄ . <i>Chemistry - A European Journal</i> , 2021, 27, 12900-12909.	1.7	9
32	Continuous and Scalable Synthesis of Pt Multipods with Enhanced Electrocatalytic Activity toward the Oxygen Reduction Reaction. <i>ChemNanoMat</i> , 2019, 5, 599-605.	1.5	8
33	In Situ Growth of Pt-Co Nanocrystals on Different Types of Carbon Supports and Their Electrochemical Performance toward Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51988-51996.	4.0	6
34	Colloidal Nanospheres of Amorphous Selenium: Facile Synthesis, Size Control, and Optical Properties. <i>ChemNanoMat</i> , 2021, 7, 620-625.	1.5	5
35	Janus Nanocages of Platinum-Group Metals and Their Use as Effective Dual-Electrocatalysts. <i>Angewandte Chemie</i> , 2021, 133, 10472-10480.	1.6	4
36	A New Catalytic System with Balanced Activity and Durability toward Oxygen Reduction. <i>ChemCatChem</i> , 2020, 12, 4817-4824.	1.8	3

#	ARTICLE	IF	CITATIONS
37	Facile Synthesis of Platinum Right Bipyramids by Separating and Controlling the Nucleation Step in a Continuous Flow System. <i>Chemistry - A European Journal</i> , 2021, 27, 13855-13863.	1.7	3
38	How to Remove the Capping Agent from Pd Nanocubes without Destructing Their Surface Structure for the Maximization of Catalytic Activity?. <i>Angewandte Chemie</i> , 2020, 132, 19291-19297.	1.6	2
39	Thumbnail: Iridium-Based Cubic Nanocages with 1.1-nm-Thick Walls: A Highly Efficient and Durable Electrocatalyst for Water Oxidation in an Acidic Medium (<i>Angew. Chem.</i> 22/2019). <i>Angewandte Chemie</i> , 2019, 131, 7576-7576.	1.6	0
40	Freestanding Graphene-Coated Carbon Nanotube Aerogels Decorated with Metal Nanoparticles As High Performance Electrodes for Ethanol Oxidation. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0