

Xue Wang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5409924/xue-wang-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

4,897
citations

33
h-index

69
g-index

77
ext. papers

6,480
ext. citations

14.3
avg, IF

5.58
L-index

#	Paper	IF	Citations
70	NANOCATALYSTS. Platinum-based nanocages with subnanometer-thick walls and well-defined, controllable facets. <i>Science</i> , 2015 , 349, 412-6	33.3	724
69	CO electrolysis to multicarbon products at activities greater than 1 A cm. <i>Science</i> , 2020 , 367, 661-666	33.3	403
68	Palladium-platinum core-shell icosahedra with substantially enhanced activity and durability towards oxygen reduction. <i>Nature Communications</i> , 2015 , 6, 7594	17.4	365
67	Molecular tuning of CO-to-ethylene conversion. <i>Nature</i> , 2020 , 577, 509-513	50.4	321
66	Pd@Pt Core-Shell Concave Decahedra: A Class of Catalysts for the Oxygen Reduction Reaction with Enhanced Activity and Durability. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15036-42	16.4	246
65	Pt-Based Icosahedral Nanocages: Using a Combination of {111} Facets, Twin Defects, and Ultrathin Walls to Greatly Enhance Their Activity toward Oxygen Reduction. <i>Nano Letters</i> , 2016 , 16, 1467-71	11.5	197
64	High-energy-surface engineered metal oxide micro- and nanocrystallites and their applications. <i>Accounts of Chemical Research</i> , 2014 , 47, 308-18	24.3	174
63	Cooperative CO ₂ -to-ethanol conversion via enriched intermediates at molecule-metal catalyst interfaces. <i>Nature Catalysis</i> , 2020 , 3, 75-82	36.5	164
62	Efficient electrically powered CO ₂ -to-ethanol via suppression of deoxygenation. <i>Nature Energy</i> , 2020 , 5, 478-486	62.3	163
61	3D metal-organic framework as highly efficient biosensing platform for ultrasensitive and rapid detection of bisphenol A. <i>Biosensors and Bioelectronics</i> , 2015 , 65, 295-301	11.8	149
60	CO electrolysis to multicarbon products in strong acid. <i>Science</i> , 2021 , 372, 1074-1078	33.3	115
59	Enhancing the photocatalytic activity of anatase TiO ₂ by improving the specific facet-induced spontaneous separation of photogenerated electrons and holes. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 282-9	4.5	113
58	Efficient electrocatalytic conversion of carbon monoxide to propanol using fragmented copper. <i>Nature Catalysis</i> , 2019 , 2, 251-258	36.5	111
57	Hydroxide promotes carbon dioxide electroreduction to ethanol on copper via tuning of adsorbed hydrogen. <i>Nature Communications</i> , 2019 , 10, 5814	17.4	95
56	Controlled synthesis and enhanced catalytic and gas-sensing properties of tin dioxide nanoparticles with exposed high-energy facets. <i>Chemistry - A European Journal</i> , 2012 , 18, 2283-9	4.8	91
55	High-efficiently visible light-responsive photocatalysts: Ag ₃ PO ₄ tetrahedral microcrystals with exposed {111} facets of high surface energy. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12635	13	89
54	Controlled synthesis of concave Cu ₂ O microcrystals enclosed by {hkl} high-index facets and enhanced catalytic activity. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 282-287	13	84

53	Synthesis and shape-dependent catalytic properties of CeO ₂ nanocubes and truncated octahedra. <i>CrystEngComm</i> , 2012 , 14, 7579	3.3	75
52	Carbonate ions-assisted syntheses of anatase TiO ₂ nanoparticles exposed with high energy (001) facets. <i>RSC Advances</i> , 2012 , 2, 3251	3.7	74
51	Mesoporous Mn ₃ O ₄ @CoO core-shell spheres wrapped by carbon nanotubes: a high performance catalyst for the oxygen reduction reaction and CO oxidation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3794	13	73
50	Efficient Methane Electrosynthesis Enabled by Tuning Local CO Availability. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3525-3531	16.4	65
49	Response Characteristics of Bisphenols on a Metal-Organic Framework-Based Tyrosinase Nanosensor. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16533-9	9.5	55
48	Efficient upgrading of CO to C fuel using asymmetric C-C coupling active sites. <i>Nature Communications</i> , 2019 , 10, 5186	17.4	55
47	Hollow Metal Nanocrystals with Ultrathin, Porous Walls and Well-Controlled Surface Structures. <i>Advanced Materials</i> , 2018 , 30, e1801956	24	53
46	Formaldehyde-assisted synthesis of ultrathin Rh nanosheets for applications in CO oxidation. <i>CrystEngComm</i> , 2013 , 15, 6127	3.3	48
45	Electrochemical biosensing platform based on amino acid ionic liquid functionalized graphene for ultrasensitive biosensing applications. <i>Biosensors and Bioelectronics</i> , 2014 , 62, 134-9	11.8	46
44	Rational design and synthesis of noble-metal nanoframes for catalytic and photonic applications. <i>National Science Review</i> , 2016 , 3, 520-533	10.8	45
43	The synergy between atomically dispersed Pd and cerium oxide for enhanced catalytic properties. <i>Nanoscale</i> , 2017 , 9, 6643-6648	7.7	43
42	Understanding the Thermal Stability of Palladium-Platinum Core-Shell Nanocrystals by In Situ Transmission Electron Microscopy and Density Functional Theory. <i>ACS Nano</i> , 2017 , 11, 4571-4581	16.7	42
41	Synthesis of layered protonated titanate hierarchical microspheres with extremely large surface area for selective adsorption of organic dyes. <i>CrystEngComm</i> , 2012 , 14, 7715	3.3	39
40	High-Rate and Efficient Ethylene Electrosynthesis Using a Catalyst/Promoter/Transport Layer. <i>ACS Energy Letters</i> , 2020 , 5, 2811-2818	20.1	39
39	CO ₂ Electroreduction to Formate at a Partial Current Density of 930 mA cm ⁻² with InP Colloidal Quantum Dot Derived Catalysts. <i>ACS Energy Letters</i> , 2021 , 6, 79-84	20.1	39
38	Control of anatase TiO ₂ nanocrystals with a series of high-energy crystal facets via a fluorine-free strategy. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 2538-42	4.5	38
37	Synthesis of spatially uniform metal alloys nanocrystals via a diffusion controlled growth strategy: The case of Au-Pd alloy trisoctahedral nanocrystals with tunable composition. <i>Nano Research</i> , 2012 , 5, 618-629	10	31
36	Promoting CO methanation via ligand-stabilized metal oxide clusters as hydrogen-donating motifs. <i>Nature Communications</i> , 2020 , 11, 6190	17.4	30

35	Direct in Situ Observation and Analysis of the Formation of Palladium Nanocrystals with High-Index Facets. <i>Nano Letters</i> , 2018 , 18, 7004-7013	11.5	30
34	Low coordination number copper catalysts for electrochemical CO methanation in a membrane electrode assembly. <i>Nature Communications</i> , 2021 , 12, 2932	17.4	27
33	Study on Thermoelectric Properties of Polycrystalline SnSe by Ge Doping. <i>Journal of Electronic Materials</i> , 2017 , 46, 3182-3186	1.9	24
32	Functional Nanochannels for Sensing Tyrosine Phosphorylation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 16324-16333	16.4	23
31	Truncated concave octahedral Cu ₂ O nanocrystals with {hkk} high-index facets for enhanced activity and stability in heterogeneous catalytic azide-alkyne cycloaddition. <i>Green Chemistry</i> , 2018 , 20, 832-837	10	21
30	Direct Electrochemical Tyrosinase Biosensor based on Mesoporous Carbon and Co ₃ O ₄ Nanorods for the Rapid Detection of Phenolic Pollutants. <i>ChemElectroChem</i> , 2014 , 1, 808-816	4.3	20
29	Gold-in-copper at low *CO coverage enables efficient electromethanation of CO. <i>Nature Communications</i> , 2021 , 12, 3387	17.4	20
28	Silica-copper catalyst interfaces enable carbon-carbon coupling towards ethylene electrosynthesis. <i>Nature Communications</i> , 2021 , 12, 2808	17.4	19
27	Scalable Synthesis of Palladium Icosahedra in Plug Reactors for the Production of Oxygen Reduction Reaction Catalysts. <i>ChemCatChem</i> , 2016 , 8, 1658-1664	5.2	17
26	A metal-supported single-atom catalytic site enables carbon dioxide hydrogenation.. <i>Nature Communications</i> , 2022 , 13, 819	17.4	15
25	CO ₂ Electroreduction to Methane at Production Rates Exceeding 100 mA/cm ² . <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14668-14673	8.3	14
24	Shape-controlled synthesis of CO-free Pd nanocrystals with the use of formic acid as a reducing agent. <i>Chemical Communications</i> , 2016 , 52, 12594-12597	5.8	14
23	Dopant-tuned stabilization of intermediates promotes electrosynthesis of valuable C ₃ products. <i>Nature Communications</i> , 2019 , 10, 4807	17.4	13
22	Facile Synthesis of PtPd Alloy Nanocages and Pt Nanorings by Templating with Pd Nanoplates. <i>ChemNanoMat</i> , 2016 , 2, 1086-1091	3.5	13
21	What Is Hidden Behind Schiff Base Hydrolysis? Dynamic Covalent Chemistry for the Precise Capture of Sialylated Glycans. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7627-7637	16.4	12
20	Nucleation-mediated synthesis and enhanced catalytic properties of Au-Pd bimetallic tripods and bipyramids with twinned structures and high-energy facets. <i>Nanoscale</i> , 2016 , 8, 2819-25	7.7	11
19	Visible and Reversible Restrict of Molecular Configuration by Copper Ion and Pyrophosphate. <i>ACS Sensors</i> , 2020 , 5, 2438-2447	9.2	11
18	Highly Strong and Solvent-Resistant Cellulose Nanocrystal Photonic Films for Optical Coatings. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17118-17128	9.5	11

17	A surfactant free synthesis and formation mechanism of hollow Cu ₂ O nanocubes using Cl ⁻ ions as the morphology regulator. <i>RSC Advances</i> , 2015 , 5, 61421-61425	3.7	10
16	Understanding the Stability of Pt-Based Nanocages under Thermal Stress Using In Situ Electron Microscopy. <i>ChemNanoMat</i> , 2018 , 4, 112-117	3.5	10
15	Efficient electrosynthesis of n-propanol from carbon monoxide using a Ag ₂ S/Cu catalyst. <i>Nature Energy</i> ,	62.3	9
14	Ternary Alloys Enable Efficient Production of Methoxylated Chemicals via Selective Electrocatalytic Hydrogenation of Lignin Monomers. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17226-17235	16.4	7
13	Toward affordable and sustainable use of precious metals in catalysis and nanomedicine. <i>MRS Bulletin</i> , 2018 , 43, 860-869	3.2	7
12	Carbon-efficient carbon dioxide electrolyzers. <i>Nature Sustainability</i> ,	22.1	7
11	One-Step Synthesis of Supported High-Index Faceted Platinum-Cobalt Nanocatalysts for an Enhanced Oxygen Reduction Reaction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5077-5082	6.1	5
10	Electroosmotic flow steers neutral products and enables concentrated ethanol electroproduction from CO ₂ . <i>Joule</i> , 2021 ,	27.8	5
9	An electrochemical deoxyribonucleic acid biosensor for rapid genotoxicity screening of chemicals. <i>Analytical Methods</i> , 2015 , 7, 3347-3352	3.2	4
8	Atomistic insights into the nucleation and growth of platinum on palladium nanocrystals. <i>Nature Communications</i> , 2021 , 12, 3215	17.4	4
7	Concentrated Ethanol Electrosynthesis from CO via a Porous Hydrophobic Adlayer.. <i>ACS Applied Materials & Interfaces</i> , 2022 , 14, 4155-4162	9.5	3
6	Highly Efficient Separation of Methylated Peptides Utilizing Selective Complexation between Lysine and 18-Crown-6. <i>Analytical Chemistry</i> , 2020 , 92, 15663-15670	7.8	3
5	Sensing Mechanism of Excited-State Intermolecular Hydrogen Bond for Phthalimide: Indispensable Role of Dimethyl Sulfoxide. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 1113-1120	4.9	2
4	Self-assembly gel-based dynamic response system for specific recognition of -acetylneuraminic acid. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 4690-4699	7.3	1
3	Bioinspired Sialic Acid Regulated Ion Nanochannel. <i>Advanced Materials Interfaces</i> , 2200186	4.6	0
2	Scalable Synthesis of Palladium Icosahedra in Plug Reactors for the Production of Oxygen Reduction Reaction Catalysts. <i>ChemCatChem</i> , 2016 , 8, 1602-1602	5.2	
1	High-efficiency two-dimensional separation of natural products based on β-cyclodextrin stationary phase working in both hydrophilic and reversed hydrophobic modes.. <i>Journal of Chromatography A</i> , 2022 , 1673, 463069	4.5	