

Zhijun Li

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5392184/publications.pdf>

Version: 2024-02-01

69
papers

8,746
citations

117453

34
h-index

98622

67
g-index

69
all docs

69
docs citations

69
times ranked

8313
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of N-Coordinated Dual-Metal Sites: A Stable and Active Pt-Free Catalyst for Acidic Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 17281-17284.	6.6	1,220
2	Engineering the electronic structure of single atom Ru sites via compressive strain boosts acidic water oxidation electrocatalysis. <i>Nature Catalysis</i> , 2019, 2, 304-313.	16.1	757
3	Direct transformation of bulk copper into copper single sites via emitting and trapping of atoms. <i>Nature Catalysis</i> , 2018, 1, 781-786.	16.1	746
4	Uncoordinated Amine Groups of Metal-Organic Frameworks to Anchor Single Ru Sites as Chemoselective Catalysts toward the Hydrogenation of Quinoline. <i>Journal of the American Chemical Society</i> , 2017, 139, 9419-9422.	6.6	558
5	Review of Metal Catalysts for Oxygen Reduction Reaction: From Nanoscale Engineering to Atomic Design. <i>CheM</i> , 2019, 5, 1486-1511.	5.8	544
6	Synergistic effect of well-defined dual sites boosting the oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2018, 11, 3375-3379.	15.6	528
7	In-situ Thermal Atomization To Convert Supported Nickel Nanoparticles into Surface-Bound Nickel Single-Atom Catalysts. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14095-14100.	7.2	310
8	Boosting Oxygen Reduction Catalysis with Fe ₄ Sites Decorated Porous Carbons toward Fuel Cells. <i>ACS Catalysis</i> , 2019, 9, 2158-2163.	5.5	297
9	Thermal Emitting Strategy to Synthesize Atomically Dispersed Pt Metal Sites from Bulk Pt Metal. <i>Journal of the American Chemical Society</i> , 2019, 141, 4505-4509.	6.6	285
10	Solid-Diffusion Synthesis of Single-Atom Catalysts Directly from Bulk Metal for Efficient CO ₂ Reduction. <i>Joule</i> , 2019, 3, 584-594.	11.7	277
11	Fabrication of Single-Atom Catalysts with Precise Structure and High Metal Loading. <i>Advanced Materials</i> , 2018, 30, e1801649.	11.1	247
12	Recent advances in the precise control of isolated single-site catalysts by chemical methods. <i>National Science Review</i> , 2018, 5, 673-689.	4.6	244
13	Single Ru Atoms Stabilized by Hybrid Amorphous/Crystalline FeCoNi Layered Double Hydroxide for Ultraefficient Oxygen Evolution. <i>Advanced Energy Materials</i> , 2021, 11, .	10.2	223
14	Efficient and Robust Hydrogen Evolution: Phosphorus Nitride Imide Nanotubes as Supports for Anchoring Single Ruthenium Sites. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9495-9500.	7.2	205
15	Unraveling the enzyme-like activity of heterogeneous single atom catalyst. <i>Chemical Communications</i> , 2019, 55, 2285-2288.	2.2	205
16	Simple direct formation of self-assembled N-heterocyclic carbene monolayers on gold and their application in biosensing. <i>Nature Communications</i> , 2016, 7, 12654.	5.8	171
17	3D mesoporous γ -Co(OH) ₂ nanosheets electrodeposited on nickel foam: A new generation of macroscopic cobalt-based hybrid for peroxydisulfate activation. <i>Chemical Engineering Journal</i> , 2020, 380, 122447.	6.6	127
18	Ambient Synthesis of Single-Atom Catalysts from Bulk Metal via Trapping of Atoms by Surface Dangling Bonds. <i>Advanced Materials</i> , 2019, 31, e1904496.	11.1	114

#	ARTICLE	IF	CITATIONS
19	Engineering the Electronic Structure of Submonolayer Pt on Intermetallic Pd ₃ Pb via Charge Transfer Boosts the Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2019, 141, 19964-19968.	6.6	99
20	Ultrathin Palladium Nanomesh for Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3435-3438.	7.2	98
21	Composite coatings on a Mg-Li alloy prepared by combined plasma electrolytic oxidation and sol-gel techniques. <i>Corrosion Science</i> , 2012, 63, 358-366.	3.0	79
22	Low-Temperature Synthesis of Single Palladium Atoms Supported on Defective Hexagonal Boron Nitride Nanosheet for Chemoselective Hydrogenation of Cinnamaldehyde. <i>ACS Nano</i> , 2021, 15, 10175-10184.	7.3	77
23	Recover the activity of sintered supported catalysts by nitrogen-doped carbon atomization. <i>Nature Communications</i> , 2020, 11, 335.	5.8	69
24	Mesoporous Pd@Ru Core-Shell Nanorods for Hydrogen Evolution Reaction in Alkaline Solution. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34147-34152.	4.0	64
25	Effect of phosphate additive on the morphology and anti-corrosion performance of plasma electrolytic oxidation coatings on magnesium-lithium alloy. <i>Corrosion Science</i> , 2019, 157, 295-304.	3.0	61
26	One-step synthesis of single palladium atoms in WO _{2.72} with high efficiency in chemoselective hydrodeoxygenation of vanillin. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120535.	10.8	61
27	In Situ Topotactic Transformation of an Interstitial Alloy for CO Electroreduction. <i>Advanced Materials</i> , 2020, 32, e2002382.	11.1	56
28	Ceramic Coatings of LA141 Alloy Formed by Plasma Electrolytic Oxidation for Corrosion Protection. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3682-3690.	4.0	54
29	Effect of current density on the structure, composition and corrosion resistance of plasma electrolytic oxidation coatings on Mg-Li alloy. <i>Journal of Alloys and Compounds</i> , 2012, 541, 380-391.	2.8	48
30	Hierarchical nanotubes constructed from CoSe ₂ nanorods with an oxygen-rich surface for an efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15073-15078.	5.2	47
31	Rational design of palladium single-atoms and clusters supported on silicoaluminophosphate-31 by a photochemical route for chemoselective hydrodeoxygenation of vanillin. <i>Nano Research</i> , 2021, 14, 4347-4355.	5.8	43
32	In-Situ Thermal Atomization To Convert Supported Nickel Nanoparticles into Surface-Bound Nickel Single-Atom Catalysts. <i>Angewandte Chemie</i> , 2018, 130, 14291-14296.	1.6	41
33	Highly sensitive ethanol gas sensor based on ultrathin nanosheets assembled Bi ₂ WO ₆ with composite phase. <i>Science Bulletin</i> , 2019, 64, 595-602.	4.3	40
34	Engineering the Atomic Layer of RuO ₂ on PdO Nanosheets Boosts Oxygen Evolution Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42298-42304.	4.0	38
35	Carboxymethylated Dextran-Modified N-Heterocyclic Carbene Self-Assembled Monolayers on Gold for Use in Surface Plasmon Resonance Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39223-39234.	4.0	36
36	N-Heterocyclic Carbene Self-Assembled Monolayers on Gold as Surface Plasmon Resonance Biosensors. <i>Langmuir</i> , 2017, 33, 13936-13944.	1.6	34

#	ARTICLE	IF	CITATIONS
37	2D MOF induced accessible and exclusive Co single sites for an efficient <i>O</i> -silylation of alcohols with silanes. <i>Chemical Communications</i> , 2019, 55, 6563-6566.	2.2	34
38	Selective Hydrogenation on a Highly Active Single-Atom Catalyst of Palladium Dispersed on Ceria Nanorods by Defect Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57569-57577.	4.0	34
39	Single palladium atoms stabilized by γ -FeOOH nanorod with superior performance for selective hydrogenation of cinnamaldehyde. <i>Nano Research</i> , 2022, 15, 3114-3121.	5.8	34
40	Composite coatings prepared by combined plasma electrolytic oxidation and chemical conversion routes on magnesium-lithium alloy. <i>Journal of Alloys and Compounds</i> , 2017, 706, 419-429.	2.8	32
41	Strong electronic interaction of indium oxide with palladium single atoms induced by quenching toward enhanced hydrogenation of nitrobenzene. <i>Applied Catalysis B: Environmental</i> , 2022, 313, 121462.	10.8	32
42	Efficient and Robust Hydrogen Evolution: Phosphorus Nitride Imide Nanotubes as Supports for Anchoring Single Ruthenium Sites. <i>Angewandte Chemie</i> , 2018, 130, 9639-9644.	1.6	31
43	Direct Synthesis of Atomically Dispersed Palladium Atoms Supported on Graphitic Carbon Nitride for Efficient Selective Hydrogenation Reactions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54146-54154.	4.0	31
44	Highly Active and Stable Palladium Single-Atom Catalyst Achieved by a Thermal Atomization Strategy on an SBA-15 Molecular Sieve for Semi-Hydrogenation Reactions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2530-2537.	4.0	31
45	Characteristics of high-performance anti-corrosion/anti-wear ceramic coatings on magnesium-lithium alloy by plasma electrolytic oxidation surface engineering. <i>Surface and Coatings Technology</i> , 2019, 375, 600-607.	2.2	29
46	Preparation and characterization of superhydrophobic composite coatings on a magnesium-lithium alloy. <i>RSC Advances</i> , 2016, 6, 90587-90596.	1.7	28
47	Self-Assembled N-Heterocyclic Carbene-Based Carboxymethylated Dextran Monolayers on Gold as a Tunable Platform for Designing Affinity-Capture Biosensor Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17560-17570.	4.0	27
48	Engineering the morphology and electronic structure of atomic cobalt-nitrogen-carbon catalyst with highly accessible active sites for enhanced oxygen reduction. <i>Journal of Energy Chemistry</i> , 2022, 73, 469-477.	7.1	26
49	Surface engineering of mesoporous anatase titanium dioxide nanotubes for rapid spatial charge separation on horizontal-vertical dimensions and efficient solar-driven photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 75-83.	5.0	25
50	Ultrathin Palladium Nanomesh for Electrocatalysis. <i>Angewandte Chemie</i> , 2018, 130, 3493-3496.	1.6	24
51	A single palladium site catalyst as a bridge for converting homogeneous to heterogeneous in dimerization of terminal aryl acetylenes. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1317-1322.	3.2	23
52	Facile Synthesis of Single Iron Atoms over MoS_2 Nanosheets via Spontaneous Reduction for Highly Efficient Selective Oxidation of Alcohols. <i>Small</i> , 2022, 18, e2201092.	5.2	23
53	Surface Atomic Regulation of Core-Shell Noble Metal Catalysts. <i>Chemistry - A European Journal</i> , 2019, 25, 5113-5127.	1.7	20
54	Ultrahigh-flux ($>190,000 \text{ L} \cdot \text{m}^{-2} \cdot \text{h}^{-1}$) separation of oil and water by a robust and durable $\text{Cu}(\text{OH})_2$ nanoneedles mesh with inverse wettability. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 569-582.	5.0	18

#	ARTICLE	IF	CITATIONS
55	Fully exposed cobalt nanoclusters anchored on nitrogen-doped carbon synthesized by a host-guest strategy for semi-hydrogenation of phenylacetylene. <i>Journal of Catalysis</i> , 2022, 405, 499-507.	3.1	16
56	Synthesis of cobalt single atom catalyst by a solid-state transformation strategy for direct C-C cross-coupling of primary and secondary alcohols. <i>Nano Research</i> , 2022, 15, 4023-4031.	5.8	16
57	Engineering the atomic interface of porous ceria nanorod with single palladium atoms for hydrodehalogenation reaction. <i>Nano Research</i> , 2022, 15, 1338-1346.	5.8	15
58	Atomically Defined Undercoordinated Copper Active Sites over Nitrogen-Doped Carbon for Aerobic Oxidation of Alcohols. <i>Small</i> , 2022, 18, e2106614.	5.2	15
59	Creating high-performance bi-functional composite coatings on magnesium-lithium alloy through electrochemical surface engineering with highly enhanced corrosion and wear protection. <i>Journal of Alloys and Compounds</i> , 2020, 818, 153341.	2.8	13
60	Alkali ion-promoted palladium subnanoclusters stabilized on porous alumina nanosheets with enhanced catalytic activity for benzene oxidation. <i>Nano Research</i> , 2022, 15, 5912-5921.	5.8	13
61	Atomic level engineering of noble metal nanocrystals for energy conversion catalysis. <i>Journal of Energy Chemistry</i> , 2021, 63, 604-624.	7.1	12
62	Isolated Palladium Atoms Dispersed on Silicoaluminophosphate-31 (SAPO-31) for the Semihydrogenation of Alkynes. <i>ACS Applied Nano Materials</i> , 2021, 4, 861-868.	2.4	11
63	Pt ₉ Ni Wavelike Nanowires with High Activity for Oxygen Reduction Reactions. <i>Chemistry - A European Journal</i> , 2018, 24, 14636-14638.	1.7	9
64	Photoinduction of palladium single atoms supported on defect-containing β -AlOOH nanoleaf for efficient trans-stilbene epoxidation. <i>Chemical Engineering Journal</i> , 2022, 429, 132149.	6.6	8
65	Electrochemical deposition of nano-structured ZnO on the nanocrystalline TiO ₂ film and its characterization. <i>Science China Chemistry</i> , 2010, 53, 1732-1736.	4.2	6
66	Coordination and reduction in polyol-mediated solvothermal synthesis of nickel-based materials with controllable morphology and magnetic and electrochemical properties. <i>Research on Chemical Intermediates</i> , 2017, 43, 6395-6406.	1.3	5
67	Single-Atom Catalysts: Ambient Synthesis of Single-Atom Catalysts from Bulk Metal via Trapping of Atoms by Surface Dangling Bonds (<i>Adv. Mater.</i> 44/2019). <i>Advanced Materials</i> , 2019, 31, 1970316.	11.1	1
68	Metadata-based automated IoT device management system. , 2021, , .		1
69	Frontispiece: Surface Atomic Regulation of Core-Shell Noble Metal Catalysts. <i>Chemistry - A European Journal</i> , 2019, 25, .	1.7	0