

Jianping Lai

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3936272/jianping-lai-publications-by-citations.pdf>

Version: 2024-04-28

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.

100
papers

3,364
citations

32
h-index

56
g-index

111
ext. papers

4,563
ext. citations

12.1
avg, IF

5.83
L-index

#	Paper	IF	Citations
100	Unprecedented metal-free 3D porous carbonaceous electrodes for full water splitting. <i>Energy and Environmental Science</i> , 2016 , 9, 1210-1214	35.4	237
99	Rational Design of MXene/1T-2H MoS ₂ -C Nanohybrids for High-Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1707578	15.6	220
98	Strongly Coupled Nickel-Cobalt Nitrides/Carbon Hybrid Nanocages with Pt-Like Activity for Hydrogen Evolution Catalysis. <i>Advanced Materials</i> , 2019 , 31, e1805541	24	184
97	Tannic Acid Induced Self-Assembly of Three-Dimensional Graphene with Good Adsorption and Antibacterial Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1404-1413	8.3	168
96	Strengthening reactive metal-support interaction to stabilize high-density Pt single atoms on electron-deficient g-C ₃ N ₄ for boosting photocatalytic H ₂ production. <i>Nano Energy</i> , 2019 , 56, 127-137	17.1	155
95	Solvothermal synthesis of metal nanocrystals and their applications. <i>Nano Today</i> , 2015 , 10, 240-267	17.9	149
94	MXene/Si@SiO ₂ @C Layer-by-Layer Superstructure with Autoadjustable Function for Superior Stable Lithium Storage. <i>ACS Nano</i> , 2019 , 13, 2167-2175	16.7	127
93	Ultrasensitive Glutathione Detection Based on Lucigenin Cathodic Electrochemiluminescence in the Presence of MnO ₂ Nanosheets. <i>Analytical Chemistry</i> , 2016 , 88, 7654-9	7.8	116
92	Ultrathin Visible-Light-Driven Mo Incorporating In ₂ O ₃ -ZnIn ₂ Se ₃ Z-Scheme Nanosheet Photocatalysts. <i>Advanced Materials</i> , 2019 , 31, e1807226	24	115
91	Designed multimetallic Pd nanospheres with enhanced electrocatalytic activity for ethylene glycol and glycerol oxidation. <i>Energy and Environmental Science</i> , 2016 , 9, 3097-3102	35.4	88
90	Fast site-to-site electron transfer of high-entropy alloy nanocatalyst driving redox electrocatalysis. <i>Nature Communications</i> , 2020 , 11, 5437	17.4	86
89	Tannic acid functionalized graphene hydrogel for entrapping gold nanoparticles with high catalytic performance toward dye reduction. <i>Journal of Hazardous Materials</i> , 2015 , 300, 615-623	12.8	80
88	3D Porous Carbonaceous Electrodes for Electrocatalytic Applications. <i>Joule</i> , 2018 , 2, 76-93	27.8	72
87	Synergetic interaction between neighboring platinum and ruthenium monomers boosts CO oxidation. <i>Chemical Science</i> , 2019 , 10, 5898-5905	9.4	71
86	Synthesis of convex hexoctahedral palladium@gold core-shell nanocrystals with {431} high-index facets with remarkable electrochemiluminescence activities. <i>ACS Nano</i> , 2014 , 8, 5953-8	16.7	65
85	Efficient Bifunctional Polyalcohol Oxidation and Oxygen Reduction Electrocatalysts Enabled by Ultrathin PtPdM (M = Ni, Fe, Co) Nanosheets. <i>Advanced Energy Materials</i> , 2019 , 9, 1800684	21.8	64
84	Recent Advances in the Synthesis and Electrocatalytic Applications of Platinum-Based Bimetallic Alloy Nanostructures. <i>ChemCatChem</i> , 2015 , 7, 3206-3228	5.2	58

83	Design of Ultrathin Pt-Based Multimetallic Nanostructures for Efficient Oxygen Reduction Electrocatalysis. <i>Small</i> , 2017 , 13, 1702156	11	57
82	Barrier-free Interface Electron Transfer on PtFe-Fe ₂ C Janus-like Nanoparticles Boosts Oxygen Catalysis. <i>CheM</i> , 2018 , 4, 1153-1166	16.2	56
81	Facile surfactant-free synthesis and characterization of Fe ₃ O ₄ @3-aminophenol formaldehyde core-shell magnetic microspheres. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 519-524	13	55
80	High-performance nitrogen electroreduction at low overpotential by introducing Pb to Pd nanosponges. <i>Applied Catalysis B: Environmental</i> , 2020 , 265, 118481	21.8	44
79	Advanced Ultrathin RuPdM (M = Ni, Co, Fe) Nanosheets Electrocatalyst Boosts Hydrogen Evolution. <i>ACS Central Science</i> , 2019 , 5, 1991-1997	16.8	44
78	Gold nanoclusters: synthetic strategies and recent advances in fluorescent sensing. <i>Materials Today Nano</i> , 2018 , 3, 9-27	9.7	43
77	Amorphous FeCoPOx nanowires coupled to g-C ₃ N ₄ nanosheets with enhanced interfacial electronic transfer for boosting photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2018 , 238, 161-167	21.8	41
76	Solvent-free microwave synthesis of ultra-small Ru-MoC@CNT with strong metal-support interaction for industrial hydrogen evolution. <i>Nature Communications</i> , 2021 , 12, 4018	17.4	40
75	Facile Synthesis of Porous PtM (M=Cu, Ni) Nanowires and Their Application as Efficient Electrocatalysts for Methanol Electrooxidation. <i>ChemCatChem</i> , 2014 , 6, 2253-2257	5.2	36
74	Chemically coupled NiCoS/C nanocages as efficient electrocatalysts for nitrogen reduction reactions. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 543-547	13	36
73	Designing noble metal single-atom-loaded two-dimension photocatalyst for N ₂ and CO ₂ reduction via anion vacancy engineering. <i>Science Bulletin</i> , 2020 , 65, 720-725	10.6	36
72	Face-to-face engineering of ultrathin Pd nanosheets on amorphous carbon nitride for efficient photocatalytic hydrogen production. <i>Science China Materials</i> , 2019 , 62, 351-358	7.1	35
71	Multi-Site Electrocatalysts Boost pH-Universal Nitrogen Reduction by High-Entropy Alloys. <i>Advanced Functional Materials</i> , 2021 , 31, 2006939	15.6	35
70	Surface oxygen-mediated ultrathin PtRuM (Ni, Fe, and Co) nanowires boosting methanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2323-2330	13	32
69	Ni _{1-x} Co _x Se ₂ /C/ZnIn ₂ S ₄ Hybrid Nanocages with Strong 2D/2D Hetero-Interface Interaction Enable Efficient H ₂ -Releasing Photocatalysis. <i>Advanced Functional Materials</i> , 2021 , 31, 2100923	15.6	32
68	Stainless steel electrode for simultaneous stripping analysis of Cd(II), Pb(II), Cu(II) and Hg(II). <i>Talanta</i> , 2019 , 191, 485-490	6.2	32
67	Enhanced bifunctional fuel cell catalysis via Pd/PtCu core/shell nanoplates. <i>Chemical Communications</i> , 2018 , 54, 1315-1318	5.8	32
66	Surfactant-free synthesis of three-dimensional nitrogen-doped hierarchically porous carbon and its application as an electrode modification material for simultaneous sensing of ascorbic acid, dopamine and uric acid. <i>Analyst, The</i> , 2017 , 142, 478-484	5	27

65	Wireless electrochemiluminescence with disposable minidevice. <i>Analytical Chemistry</i> , 2014 , 86, 8927-31	7.8	26
64	The facile oil-phase synthesis of a multi-site synergistic high-entropy alloy to promote the alkaline hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 889-893	13	26
63	Thiourea dioxide as a unique eco-friendly coreactant for luminol chemiluminescence in the sensitive detection of luminol, thiourea dioxide and cobalt ions. <i>Chemical Communications</i> , 2015 , 51, 1620-3	5.8	25
62	Exposure of Definite Palladium Facets Boosts Electrocatalytic Nitrogen Fixation at Low Overpotential. <i>Advanced Energy Materials</i> , 2020 , 10, 2002131	21.8	25
61	3D PtFe Clusters with Cube-in-Cube Structure Enhance Oxygen Reduction Catalysis and Electrochemical Sensing. <i>Small Methods</i> , 2018 , 2, 1800073	12.8	25
60	Visible light-driven methanol dehydrogenation and conversion into 1,1-dimethoxymethane over a non-noble metal photocatalyst under acidic conditions. <i>Catalysis Science and Technology</i> , 2018 , 8, 3372-3378	5.5	24
59	Hierarchical concave layered triangular PtCu alloy nanostructures: rational integration of dendritic nanostructures for efficient formic acid electrooxidation. <i>Nanoscale</i> , 2018 , 10, 9369-9375	7.7	22
58	A Platinum Highly Concave Cube with one Leg on each Vertex as an Advanced Nanocatalyst for Electrocatalytic Applications. <i>ChemCatChem</i> , 2015 , 7, 1064-1069	5.2	22
57	Autocatalysis Synthesis of Poly(benzoxazine-co-resol)-Based Polymer and Carbon Spheres. <i>Macromolecules</i> , 2018 , 51, 5494-5500	5.5	21
56	Concave and duck web-like platinum nanopentagons with enhanced electrocatalytic properties for formic acid oxidation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 807-812	13	20
55	PtCu@ highly excavated octahedral nanostructures built with nanodendrites for superior alcohol electrooxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8568-8572	13	19
54	One-pot synthesis of gold nanorods using binary surfactant systems with improved monodispersity, dimensional tunability and plasmon resonance scattering properties. <i>Nanotechnology</i> , 2014 , 25, 125601	3.4	19
53	Bipolar Electrochemical Approach with a Thin Layer of Supporting Electrolyte towards the Growth of Self-Organizing TiO ₂ Nanotubes. <i>ChemElectroChem</i> , 2016 , 3, 360-365	4.3	19
52	Hydroxylamine-O-sulfonic acid as an efficient coreactant for luminol chemiluminescence for selective and sensitive detection. <i>Chemical Communications</i> , 2015 , 51, 6536-9	5.8	17
51	Multi-Sites Electrocatalysis in High-Entropy Alloys. <i>Advanced Functional Materials</i> , 2021 , 31, 2106715	15.6	17
50	Nanoparticle tracking analysis of gold nanomaterials stabilized by various capping agents. <i>RSC Advances</i> , 2014 , 4, 17114	3.7	16
49	Highly Excavated Octahedral Nanostructures Integrated from Ultrathin Mesoporous PtCu Nanosheets: Construction of Three-Dimensional Open Surfaces for Enhanced Electrocatalysis. <i>Small</i> , 2019 , 15, e1804407	11	15
48	Sensitive and selective colorimetric detection of Hg(2+) by a Hg(2+) induced dual signal amplification strategy based on cascade-type catalytic reactions. <i>Analyst</i> , 2016 , 141, 2362-6	5	14

47	The rational adjusting of proton-feeding by Pt-doped FeP/C hollow nanorod for promoting nitrogen reduction kinetics. <i>Applied Catalysis B: Environmental</i> , 2021 , 291, 120047	21.8	14
46	Modulating the oxophilic properties of inorganic nanomaterials for electrocatalysis of small carbonaceous molecules. <i>Nano Today</i> , 2019 , 29, 100802	17.9	13
45	Simple synthesis of nitrogen-doped porous carbon from Chinese steamed bread flour and its catalytic application for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018 , 290, 30-37	6.7	11
44	Detection of ozone based on its striking inhibition of tris(1,10-phenanthroline)ruthenium(II)/glyoxal electrochemiluminescence. <i>Chemical Communications</i> , 2014 , 50, 8164-6	5.8	10
43	The twinned Pd nanocatalyst exhibits sustainable NRR electrocatalytic performance by promoting the desorption of NH ₃ . <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13483-13489	13	10
42	A facile and general preparation of high-performance noble-metal-based free-standing nanomembranes by a reagentless interfacial self-assembly strategy. <i>Nanoscale</i> , 2012 , 4, 6974-80	7.7	9
41	Significantly enhanced electrocatalytic N ₂ reduction to NH ₃ by surface selenization with multiple functions. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20331-20336	13	9
40	Efficient nitrogen reduction to ammonia by fluorine vacancies with a multi-step promoting effect. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 894-899	13	9
39	New synthesis of gold nanocorals using a diazonium compound, and their application to an electrochemiluminescent assay of hydrogen peroxide. <i>Mikrochimica Acta</i> , 2014 , 181, 737-742	5.8	8
38	Hierarchical microsphere MOF arrays with ultralow Ir doping for efficient hydrogen evolution coupled with hydrazine oxidation in seawater. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 27424-27433	13	8
37	Facile synthesis of monodisperse bulk boron- and nitrogen-doped carbon nano/microspheres. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23780-23786	13	8
36	Facet-controlled palladium nanocrystalline for enhanced nitrate reduction towards ammonia. <i>Journal of Colloid and Interface Science</i> , 2021 , 600, 620-628	9.3	8
35	Porous PdWM (M = Nb, Mo and Ta) Trimetallene for High C1 Selectivity in Alkaline Ethanol Oxidation Reaction.. <i>Advanced Science</i> , 2021 , e2103722	13.6	8
34	Aqueous Synthesis of Tunable Highly Photoluminescent CdTe Quantum Dots Using Rongalite and Bioimaging Application. <i>Chinese Journal of Analytical Chemistry</i> , 2015 , 43, e101-e107	1.6	7
33	One-Pot Seedless Aqueous Design of Metal Nanostructures for Energy Electrocatalytic Applications. <i>Electrochemical Energy Reviews</i> , 2018 , 1, 531-547	29.3	7
32	High-efficiency methanol oxidation electrocatalysts realized by ultrathin PtRuM-O (M = Ni, Fe, Co) nanosheets. <i>Chemical Communications</i> , 2020 , 56, 9028-9031	5.8	6
31	BiOCl/ultrathin polyaniline core/shell nanosheets with a sensitization mechanism for efficient visible-light-driven photocatalysis. <i>Science China Materials</i> , 2019 , 62, 95-102	7.1	6
30	Electrocatalytic Nitrogen Fixation on Metal Tellurides Boosted by Multiple Promoted-Synergetic Effects of Telluride. <i>Cell Reports Physical Science</i> , 2020 , 1, 100232	6.1	6

29	Superfast Synthesis of Densely Packed and Ultrafine Pt-Lanthanide@KB via Solvent-Free Microwave as Efficient Hydrogen Evolution Electrocatalysts. <i>Small</i> , 2021 , 17, e2102879	11	6
28	Coordination engineering of cobalt phthalocyanine by functionalized carbon nanotube for efficient and highly stable carbon dioxide reduction at high current density. <i>Nano Research</i> , 1	10	5
27	High Valence M-Incorporated PdCu Nanoparticles (M = Ir, Rh, Ru) for Water Electrolysis in Alkaline Solution. <i>Nano Letters</i> , 2021 , 21, 5774-5781	11.5	5
26	Protecting the state of Cu clusters and nanoconfinement engineering over hollow mesoporous carbon spheres for electrocatalytical C-C coupling. <i>Applied Catalysis B: Environmental</i> , 2022 , 306, 121111	21.8	4
25	Rapid and large-scale synthesis of ultra-small immiscible alloy supported catalysts. <i>Applied Catalysis B: Environmental</i> , 2021 , 120916	21.8	4
24	Self-assembly of functionalized Echinops-like Rh porous nanostructure electrocatalysts for highly efficient seawater splitting. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 8314-8322	7.1	4
23	The Synergistic Effect of Pyrrolic-N and Pyridinic-N with Pt Under Strong Metal-Support Interaction to Achieve High-Performance Alkaline Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2200110	21.8	4
22	Noble Metal (Pt, Rh, Pd, Ir) Doped Ru/CNT Ultra-Small Alloy for Acidic Hydrogen Evolution at High Current Density. <i>Small</i> , 2021 , e2104559	11	3
21	Scalable synthesis of ultra-small Ru ₂ P@Ru/CNT for efficient seawater splitting. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1148-1155	11.3	3
20	Boric Acid-Based Dual Modulation Photoluminescent Glucose Sensor Using Thioglycolic Acid-Capped CdTe Quantum Dots. <i>Journal of Analysis and Testing</i> , 2017 , 1, 291-297	3.2	2
19	Systematic Engineering on Ni-Based Nanocatalysts Effectively Promote Hydrogen Evolution Reaction.. <i>Small</i> , 2022 , e2108072	11	2
18	Ordered Vacancies on the Body-Centered Cubic PdCu Nanocatalysts. <i>Nano Letters</i> , 2021 , 21, 9580-9586	11.5	2
17	Mixture Phases Engineering of PtFe Nanofoams for Efficient Hydrogen Evolution.. <i>Small</i> , 2022 , e2106947	11	2
16	One-pot synthesis of luminol@gallium nanoassemblies and their peroxidase-mimetic activity for colorimetric detection of pyrophosphate. <i>New Journal of Chemistry</i> , 2020 , 44, 21176-21182	3.6	2
15	Recent Advances on Electrocatalysis Using Pristinely Conductive Metal-Organic Frameworks and Covalent Organic Frameworks. <i>ChemElectroChem</i> , 2021 , 8, 2764-2777	4.3	2
14	High C ₁ selectivity in alkaline ethanol oxidation reaction over stable Lewis pairs of Pd-MxC@CNT (M = W, Mo and Cr). <i>Chemical Engineering Journal</i> , 2022 , 137178	14.7	2
13	Platinum Clusters Anchored Amorphous NiMo Hydroxide with Collaborative Electronic Transfer for Overall Water Splitting under High Current Density. <i>Advanced Materials Interfaces</i> , 2102154	4.6	1
12	A simple, rapid and scalable synthesis approach for ultra-small size transition metal selenides with efficient water oxidation performance. <i>Journal of Materials Chemistry A</i> ,	13	1

11	Rapid microwave synthesis of Ru-supported partially carbonized conductive metal-organic framework for efficient hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021 , 431, 133247	14.7	1
10	High-entropy phosphate/C hybrid nanosheets for efficient acidic hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2022 , 437, 135375	14.7	1
9	The self-complementary effect through strong orbital coupling in ultrathin high-entropy alloy nanowires boosting pH-universal multifunctional electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2022 , 121431	21.8	1
8	Engineering ordered vacancies and atomic arrangement over the intermetallic PdM/CNT (M = Pb, Sn, In) nanocatalysts for synergistically promoting electrocatalysis N ₂ fixation. <i>Applied Catalysis B: Environmental</i> , 2022 , 314, 121465	21.8	1
7	Interface engineering of metal nanomaterials enhance the electrocatalytic water splitting and fuel cell performance. <i>Electrochemical Science Advances</i> , e202100066		0
6	Constructing stable charge redistribution through strong metal-support interaction for overall water splitting in acidic solution. <i>Journal of Materials Chemistry A</i> ,	13	0
5	A Platinum Highly Concave Cube with one Leg on each Vertex as an Advanced Nanocatalyst for Electrocatalytic Applications. <i>ChemCatChem</i> , 2015 , 7, 1033-1033	5.2	
4	Bipolar Electrochemical Approach with a Thin Layer of Supporting Electrolyte towards the Growth of Self-Organizing TiO ₂ Nanotubes. <i>ChemElectroChem</i> , 2016 , 3, 350-350	4.3	
3	Design of NiFe-based nanostructures for efficient oxygen evolution electrocatalysis. <i>Electrochemical Science Advances</i> , e2100052		
2	PdRu/CNTs synthesized by microwave-assisted method for high stable acidic oxygen evolution reaction. <i>Electrochemical Science Advances</i> , e202100111		
1	Superfast tellurizing synthesis of unconventional phase-controlled small Pd-Te nanoparticles. <i>Science China Materials</i> , 1	7.1	