

Jianping Lai

List of Publications by Year in Descending Order

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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	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
99	Systematic Engineering on Ni-Based Nanocatalysts Effectively Promote Hydrogen Evolution Reaction.. <i>Small</i> , 2022 , e2108072	11	2
98	Mixture Phases Engineering of PtFe Nanofoams for Efficient Hydrogen Evolution.. <i>Small</i> , 2022 , e2106947	11	2
97	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
96	High-entropy phosphate/C hybrid nanosheets for efficient acidic hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2022 , 437, 135375	14.7	1
95	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
94	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
93	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
92	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
91	Ordered Vacancies on the Body-Centered Cubic PdCu Nanocatalysts. <i>Nano Letters</i> , 2021 , 21, 9580-9586	11.5	2
90	Rapid and large-scale synthesis of ultra-small immiscible alloy supported catalysts. <i>Applied Catalysis B: Environmental</i> , 2021 , 120916	21.8	4
89	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
88	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
87	Ni _{1-x} CoxSe 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
86	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
85	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
84	Recent Advances on Electrocatalysis Using Pristinely Conductive Metal-Organic Frameworks and Covalent Organic Frameworks. <i>ChemElectroChem</i> , 2021 , 8, 2764-2777	4.3	2

83	Multi-Site Electrocatalysts Boost pH-Universal Nitrogen Reduction by High-Entropy Alloys. <i>Advanced Functional Materials</i> , 2021 , 31, 2006939	15.6	35
82	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
81	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
80	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
79	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
78	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
77	Multi-Sites Electrocatalysis in High-Entropy Alloys. <i>Advanced Functional Materials</i> , 2021 , 31, 2106715	15.6	17
76	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
75	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
74	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
73	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
72	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
71	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
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	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
68	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
67	One-pot synthesis of luminol@allium nanoassemblies and their peroxidase-mimetic activity for colorimetric detection of pyrophosphate. <i>New Journal of Chemistry</i> , 2020 , 44, 21176-21182	3.6	2
66	Fast site-to-site electron transfer of high-entropy alloy nanocatalyst driving redox electrocatalysis. <i>Nature Communications</i> , 2020 , 11, 5437	17.4	86

65	Exposure of Definite Palladium Facets Boosts Electrocatalytic Nitrogen Fixation at Low Overpotential. <i>Advanced Energy Materials</i> , 2020 , 10, 2002131	21.8	25
64	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
63	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
62	Synergetic interaction between neighboring platinum and ruthenium monomers boosts CO oxidation. <i>Chemical Science</i> , 2019 , 10, 5898-5905	9.4	71
61	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
60	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
59	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
58	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
57	Modulating the oxophilic properties of inorganic nanomaterials for electrocatalysis of small carbonaceous molecules. <i>Nano Today</i> , 2019 , 29, 100802	17.9	13
56	Advanced Ultrathin RuPdM (M = Ni, Co, Fe) Nanosheets Electrocatalyst Boosts Hydrogen Evolution. <i>ACS Central Science</i> , 2019 , 5, 1991-1997	16.8	44
55	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
54	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
53	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
52	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
51	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
50	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
49	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
48	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

47	3D Porous Carbonaceous Electrodes for Electrocatalytic Applications. <i>Joule</i> , 2018 , 2, 76-93	27.8	72
46	Autocatalysis Synthesis of Poly(benzoxazine-co-resol)-Based Polymer and Carbon Spheres. <i>Macromolecules</i> , 2018 , 51, 5494-5500	5.5	21
45	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
44	Enhanced bifunctional fuel cell catalysis via Pd/PtCu core/shell nanoplates. <i>Chemical Communications</i> , 2018 , 54, 1315-1318	5.8	32
43	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
42	Gold nanoclusters: synthetic strategies and recent advances in fluorescent sensing. <i>Materials Today Nano</i> , 2018 , 3, 9-27	9.7	43
41	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
40	One-Pot Seedless Aqueous Design of Metal Nanostructures for Energy Electrocatalytic Applications. <i>Electrochemical Energy Reviews</i> , 2018 , 1, 531-547	29.3	7
39	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
38	Amorphous FeCoPOx nanowires coupled to g-C3N4 nanosheets with enhanced interfacial electronic transfer for boosting photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2018 , 238, 161-167	21.8	41
37	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
36	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
35	Design of Ultrathin Pt-Based Multimetallic Nanostructures for Efficient Oxygen Reduction Electrocatalysis. <i>Small</i> , 2017 , 13, 1702156	11	57
34	Designed multimetallic Pd nanosponges with enhanced electrocatalytic activity for ethylene glycol and glycerol oxidation. <i>Energy and Environmental Science</i> , 2016 , 9, 3097-3102	35.4	88
33	Ultrasensitive Glutathione Detection Based on Lucigenin Cathodic Electrochemiluminescence in the Presence of MnO2 Nanosheets. <i>Analytical Chemistry</i> , 2016 , 88, 7654-9	7.8	116
32	Unprecedented metal-free 3D porous carbonaceous electrodes for full water splitting. <i>Energy and Environmental Science</i> , 2016 , 9, 1210-1214	35.4	237
31	Bipolar Electrochemical Approach with a Thin Layer of Supporting Electrolyte towards the Growth of Self-Organizing TiO2 Nanotubes. <i>ChemElectroChem</i> , 2016 , 3, 350-350	4.3	
30	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

29	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, The</i> , 2016 , 141, 2362-6	5	14
28	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
27	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
26	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	
25	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
24	Solvothermal synthesis of metal nanocrystals and their applications. <i>Nano Today</i> , 2015 , 10, 240-267	17.9	149
23	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
22	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
21	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
20	Recent Advances in the Synthesis and Electrocatalytic Applications of Platinum-Based Bimetallic Alloy Nanostructures. <i>ChemCatChem</i> , 2015 , 7, 3206-3228	5.2	58
19	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
18	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
17	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
16	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
15	Wireless electrochemiluminescence with disposable minidevice. <i>Analytical Chemistry</i> , 2014 , 86, 8927-31	7.8	26
14	Nanoparticle tracking analysis of gold nanomaterials stabilized by various capping agents. <i>RSC Advances</i> , 2014 , 4, 17114	3.7	16
13	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
12	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

11	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
10	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
9	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
8	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
7	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
6	Design of NiFe-based nanostructures for efficient oxygen evolution electrocatalysis. <i>Electrochemical Science Advances</i> , e2100052		
5	Interface engineering of metal nanomaterials enhance the electrocatalytic water splitting and fuel cell performance. <i>Electrochemical Science Advances</i> , e202100066		0
4	PdRu/CNTs synthesized by microwave-assisted method for high stable acidic oxygen evolution reaction. <i>Electrochemical Science Advances</i> , e202100111		
3	Superfast tellurizing synthesis of unconventional phase-controlled small Pd-Te nanoparticles. <i>Science China Materials</i> , 1	7.1	
2	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
1	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