

# Lin Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

2,494  
citations

257101

24  
h-index

243296

44  
g-index

49  
all docs

49  
docs citations

49  
times ranked

3218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in electrochemical hydrogen production with earth-abundant metal complexes as catalysts. <i>Energy and Environmental Science</i> , 2012, 5, 6763.	15.6	474
2	Highly Efficient Oxidation of Water by a Molecular Catalyst Immobilized on Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12276-12279.	7.2	193
3	A Janus Fe <sub>2</sub> SnO <sub>2</sub> Catalyst that Enables Bifunctional Electrochemical Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10888-10893.	7.2	192
4	Simple Nickel-Based Catalyst Systems Combined With Graphitic Carbon Nitride for Stable Photocatalytic Hydrogen Production in Water. <i>ChemSusChem</i> , 2012, 5, 2133-2138.	3.6	126
5	A super-efficient cobalt catalyst for electrochemical hydrogen production from neutral water with 80 mV overpotential. <i>Energy and Environmental Science</i> , 2014, 7, 329-334.	15.6	121
6	Approaches to efficient molecular catalyst systems for photochemical H <sub>2</sub> production using [FeFe]-hydrogenase active site mimics. <i>Dalton Transactions</i> , 2011, 40, 12793.	1.6	116
7	Reactions of [FeFe]-hydrogenase models involving the formation of hydrides related to proton reduction and hydrogen oxidation. <i>Dalton Transactions</i> , 2013, 42, 12059.	1.6	104
8	Electrocatalytic hydrogen evolution from neutral water by molecular cobalt tripyridine-diamine complexes. <i>Chemical Communications</i> , 2013, 49, 9455.	2.2	91
9	Preparation, Facile Deprotonation, and Rapid H/D Exchange of the 1/4-Hydride Diiron Model Complexes of the [FeFe]-Hydrogenase Containing a Pendant Amine in a Chelating Diphosphine Ligand. <i>Inorganic Chemistry</i> , 2009, 48, 11551-11558.	1.9	84
10	Polyethylene glycol supported by phosphorylated polyvinyl alcohol/graphene aerogel as a high thermal stability phase change material. <i>Composites Part B: Engineering</i> , 2019, 179, 107545.	5.9	82
11	Hydrophobization Engineering of the Air-Cathode Catalyst for Improved Oxygen Diffusion towards Efficient Zinc-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	72
12	Structures, protonation, and electrochemical properties of diiron dithiolate complexes containing pyridyl-phosphine ligands. <i>Dalton Transactions</i> , 2009, , 1919.	1.6	61
13	Structure-controlled Co-Al layered double hydroxides/reduced graphene oxide nanomaterials based on solid-phase exfoliation technique for supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019, 549, 236-245.	5.0	61
14	Controlled Self-Assembled NiFe Layered Double Hydroxides/Reduced Graphene Oxide Nanohybrids Based on the Solid-Phase Exfoliation Strategy as an Excellent Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13545-13556.	4.0	61
15	A Janus Fe <sub>2</sub> SnO <sub>2</sub> Catalyst that Enables Bifunctional Electrochemical Nitrogen Fixation. <i>Angewandte Chemie</i> , 2020, 132, 10980-10985.	1.6	57
16	Selective electroreduction of dinitrogen to ammonia on a molecular iron phthalocyanine/O-MWCNT catalyst under ambient conditions. <i>Chemical Communications</i> , 2019, 55, 14111-14114.	2.2	46
17	Photocatalytic Water Reduction and Study of the Formation of Fe <sup>I</sup> Fe <sup>0</sup> Species in Diiron Catalyst Systems. <i>ChemSusChem</i> , 2012, 5, 913-919.	3.6	42
18	Mechanically Strong, Thermally Healable, and Recyclable Epoxy Vitrimers Enabled by ZnAl-Layer Double Hydroxides. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2580-2590.	3.2	42

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19	Characterization of a trinuclear ruthenium species in catalytic water oxidation by Ru(bda)(pic) <sub>2</sub> in neutral media. <i>Chemical Communications</i> , 2016, 52, 8619-8622.	2.2	36
20	Zinc doping induced differences in the surface composition, surface morphology and osteogenesis performance of the calcium phosphate cement hydration products. <i>Materials Science and Engineering C</i> , 2019, 105, 110065.	3.8	34
21	Multielectron Transfer Templates via Consecutive Two-Electron Transformations: Iron-Sulfur Complexes Relevant to Biological Enzymes. <i>Chemistry - A European Journal</i> , 2012, 18, 13968-13973.	1.7	31
22	Tetranuclear Iron Complexes Bearing Benzenetetrathiolate Bridges as Four-Electron Transformation Templates and Their Electrocatalytic Properties for Proton Reduction. <i>Inorganic Chemistry</i> , 2013, 52, 1798-1806.	1.9	31
23	Electrostatic Interactions Accelerating Water Oxidation Catalysis via Intercatalyst O-O Coupling. <i>Journal of the American Chemical Society</i> , 2021, 143, 2484-2490.	6.6	25
24	Redox Reactions of [FeFe]-Hydrogenase Models Containing an Internal Amine and a Pendant Phosphine. <i>Inorganic Chemistry</i> , 2014, 53, 1555-1561.	1.9	24
25	Strong, tough and healable elastomer nanocomposites enabled by a hydrogen-bonded supramolecular network. <i>Composites Communications</i> , 2020, 22, 100530.	3.3	24
26	Supramolecular self-assembly of a [2Fe2S] complex with a hydrophilic phosphine ligand. <i>CrystEngComm</i> , 2008, 10, 267-269.	1.3	18
27	Nickel Complex with Internal Bases as Efficient Molecular Catalyst for Photochemical H <sub>2</sub> Production. <i>ChemSusChem</i> , 2014, 7, 2889-2897.	3.6	18
28	Proximity ligation assay induced hairpin to DNAzyme structure switching for entropy-driven amplified detection of thrombin. <i>Analitica Chimica Acta</i> , 2019, 1064, 104-111.	2.6	18
29	Proximity ligation assay induced and DNAzyme powered DNA motor for fluorescent detection of thrombin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 207, 39-45.	2.0	17
30	[FeFe]-Hydrogenase active site models with relatively low reduction potentials: Diiron dithiolate complexes containing rigid bridges. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 952-959.	1.5	16
31	The influence of a S-to-S bridge in diiron dithiolate models on the oxidation reaction: a mimic of the Hairox state of [FeFe]-hydrogenases. <i>Chemical Communications</i> , 2014, 50, 9255-9258.	2.2	15
32	Visualization of silica dispersion states in silicone rubber by fluorescent labeling. <i>Journal of Materials Science</i> , 2019, 54, 5149-5159.	1.7	14
33	Entropy-driven catalytic reaction-induced hairpin structure switching for fluorometric detection of uranyl ions. <i>Mikrochimica Acta</i> , 2019, 186, 653.	2.5	13
34	High-Temperature Nitridation Induced Carbon Nanotubes@NiFe-Layered Double Hydroxide Nanosheets Taking as an Oxygen Evolution Reaction Electrocatalyst for CO <sub>2</sub> Electroreduction. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101165.	1.9	13
35	Multiple-Site Concerted Proton-Electron Transfer in a Manganese-Based Complete Functional Model for [FeFe]-Hydrogenase. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25839-25845.	7.2	9
36	A catalytic cleavage strategy for fluorometric determination of Hg(II) based on the use of a Mg(II)-dependent split DNAzyme and hairpins conjugated to gold nanoparticles. <i>Mikrochimica Acta</i> , 2018, 185, 457.	2.5	8

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37	Controllable designing of superlattice units of tiled structure and standing structure as efficient oxygen evolution electrocatalyst: self-assembled graphene and hydroxide nanosheet. <i>Journal of Materials Science</i> , 2019, 54, 9034-9048.	1.7	8
38	A bio-inspired mononuclear manganese catalyst for high-rate electrochemical hydrogen production. <i>Dalton Transactions</i> , 2021, 50, 4783-4788.	1.6	8
39	The hangman effect boosts hydrogen production by a manganese terpyridine complex. <i>Chemical Communications</i> , 2022, 58, 5128-5131.	2.2	8
40	Multilayered epoxy composites by a macroscopic anisotropic design strategy with excellent thermal protection. <i>Journal of Materials Science</i> , 2020, 55, 14798-14806.	1.7	4
41	Synthesis, structure and electrocatalytic H <sub>2</sub> -evolving activity of a dinickel model complex related to the active site of [NiFe]-hydrogenases. <i>Chinese Chemical Letters</i> , 2020, 31, 2483-2486.	4.8	4
42	[ $\frac{1}{4}$ -3-(Methylsulfanyl)benzene-1,2-dithiolato-1:2] <sup>4-</sup> $\text{Ni}_2\text{S}_4$ bis[tricarbonyliron(I)]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, m269-m270.	0.2	2
43	Multiple Site Concerted Proton-Electron Transfer in a Manganese-Based Complete Functional Model for the [FeFe]-Hydrogenase. <i>Angewandte Chemie</i> , , , .	1.6	2
44	Bioinspired Design of Positioned Amine Assists Hydrogen Evolution from Neutral Water by Nickel Tripyridine-Diamine. <i>ChemCatChem</i> , 2020, 12, 3853-3856.	1.8	1
45	Effect of bentonite on the stability of fresh cement slurry. <i>Journal of Sustainable Cement-Based Materials</i> , 2022, 11, 345-352.	1.7	1
46	Introducing electrostatic interaction into Ru(bda) complexes for promoting water-oxidation catalysis. <i>Journal of Molecular Structure</i> , 2021, 1242, 130745.	1.8	1
47	Crystal structure and electrochemical properties of [Ni(bztmpen)(CH <sub>3</sub> CN)](BF <sub>4</sub> ) <sub>2</sub> ·2{bztmpen is <i>N</i> -benzyl- <i>N</i> , <i>N</i> , <i>N</i> '-tris[(6-methylpyridin-2-yl)methyl]ethane-1,2-diamine}. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2017, 73, 825-828.	0.2	0