

# Hong-Jin Lv

## List of Publications by Year in descending order

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59  
papers

4,205  
citations

159585

30  
h-index

149698

56  
g-index

68  
all docs

68  
docs citations

68  
times ranked

4617  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyoxometalate water oxidation catalysts and the production of green fuel. Chemical Society Reviews, 2012, 41, 7572.	38.1	678
2	Hole Removal Rate Limits Photodriven H <sub>2</sub> Generation Efficiency in CdS-Pt and CdSe/CdS-Pt Semiconductor Nanorod-Metal Tip Heterostructures. Journal of the American Chemical Society, 2014, 136, 7708-7716.	13.7	354
3	An Exceptionally Fast Homogeneous Carbon-Free Cobalt-Based Water Oxidation Catalyst. Journal of the American Chemical Society, 2014, 136, 9268-9271.	13.7	260
4	Synthesis of fluorinated ZnFe <sub>2</sub> O <sub>4</sub> with porous nanorod structures and its photocatalytic hydrogen production under visible light. Journal of Materials Chemistry, 2010, 20, 3665.	6.7	252
5	Near Unity Quantum Yield of Light-Driven Redox Mediator Reduction and Efficient H <sub>2</sub> Generation Using Colloidal Nanorod Heterostructures. Journal of the American Chemical Society, 2012, 134, 11701-11708.	13.7	237
6	A Noble-Metal-Free, Tetra-nickel Polyoxotungstate Catalyst for Efficient Photocatalytic Hydrogen Evolution. Journal of the American Chemical Society, 2014, 136, 14015-14018.	13.7	213
7	Differentiating Homogeneous and Heterogeneous Water Oxidation Catalysis: Confirmation that [Co <sub>4</sub> (H <sub>2</sub> O) <sub>2</sub> (μ-PW <sub>9</sub> O <sub>34</sub> ) <sub>2</sub> ] <sup>10+</sup> Is a Molecular Water Oxidation Catalyst. Journal of the American Chemical Society, 2013, 135, 14110-14118.	13.7	196
8	Enhanced Photocatalytic H <sub>2</sub> Production Activity of CdS Quantum Dots Using Sn <sup>2+</sup> as Cocatalyst under Visible Light Irradiation. Small, 2020, 16, e2001024.	10.0	124
9	A nickel containing polyoxometalate water oxidation catalyst. Dalton Transactions, 2012, 41, 13043.	3.3	111
10	Broad-Spectrum Liquid- and Gas-Phase Decontamination of Chemical Warfare Agents by One-Dimensional Heteropolyniobates. Angewandte Chemie - International Edition, 2016, 55, 7403-7407.	13.8	101
11	Catalytic Light-Driven Generation of Hydrogen from Water by Iron Dithiolene Complexes. Journal of the American Chemical Society, 2016, 138, 11654-11663.	13.7	96
12	Visible-light-driven hydrogen evolution from water using a noble-metal-free polyoxometalate catalyst. Journal of Catalysis, 2013, 307, 48-54.	6.2	95
13	Self-assembly of polyoxometalates, Pt nanoparticles and metal-organic frameworks into a hybrid material for synergistic hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 5952-5957.	10.3	89
14	Polyoxometalate Multi-Electron-Transfer Catalytic Systems for Water Splitting. European Journal of Inorganic Chemistry, 2014, 2014, 635-644.	2.0	85
15	Selective Valorization of 5-Hydroxymethylfurfural to 2,5-Diformylfuran Using Atmospheric O <sub>2</sub> and MAPbBr <sub>3</sub> Perovskite under Visible Light. ACS Catalysis, 2020, 10, 14793-14800.	11.2	83
16	Broad-Spectrum Liquid- and Gas-Phase Decontamination of Chemical Warfare Agents by One-Dimensional Heteropolyniobates. Angewandte Chemie, 2016, 128, 7529-7533.	2.0	75
17	Chiral recognition and selection during the self-assembly process of protein-mimic macroanions. Nature Communications, 2015, 6, 6475.	12.8	66
18	Facile integration of Ni-substituted polyoxometalate catalysts into mesoporous light-responsive metal-organic framework for effective photogeneration of hydrogen. Applied Catalysis B: Environmental, 2021, 291, 120091.	20.2	66

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19	Preparation of NiFe <sub>2</sub> O <sub>4</sub> nanoparticles and its visible-light-driven photoactivity for hydrogen production. <i>Catalysis Communications</i> , 2012, 28, 116-119.	3.3	65
20	Research advances of light-driven hydrogen evolution using polyoxometalate-based catalysts. <i>Chinese Journal of Catalysis</i> , 2021, 42, 855-871.	14.0	65
21	Semiconductor quantum dot-sensitized rainbow photocathode for effective photoelectrochemical hydrogen generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11297-11302.	7.1	53
22	[{Ni <sub>4</sub> (OH) <sub>3</sub> AsO <sub>4</sub> } <sub>4</sub> ] <sub>4</sub> (PW <sub>9</sub> O <sub>34</sub> ) <sub>4</sub> A New Polyoxometalate Structural Family with Catalytic Hydrogen Evolution Activity. <i>Chemistry - A European Journal</i> , 2015, 21, 17363-17370.	3.3	52
23	Rhodamine-Platinum Diimine Dithiolate Complex Dyads as Efficient and Robust Photosensitizers for Light-Driven Aqueous Proton Reduction to Hydrogen. <i>Journal of the American Chemical Society</i> , 2018, 140, 2575-2586.	13.7	52
24	Cu-based Polyoxometalate Catalyst for Efficient Catalytic Hydrogen Evolution. <i>Inorganic Chemistry</i> , 2016, 55, 6750-6758.	4.0	50
25	A polyoxometalate@covalent triazine framework as a robust electrocatalyst for selective benzyl alcohol oxidation coupled with hydrogen production. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6152-6159.	10.3	48
26	Three Candestartan Salts with Enhanced Oral Bioavailability. <i>Crystal Growth and Design</i> , 2015, 15, 3707-3714.	3.0	44
27	Ring-Shaped Polyoxometalate Built by {Mn <sub>4</sub> PW <sub>9</sub> } and PO <sub>4</sub> Units for Efficient Visible-Light-Driven Hydrogen Evolution. <i>CCS Chemistry</i> , 2021, 3, 2095-2103.	7.8	38
28	Aerobic Oxidation of Formaldehyde Catalyzed by Polyvanadotungstates. <i>ACS Catalysis</i> , 2014, 4, 1154-1161.	11.2	37
29	A Versatile Self-Decontaminating Material Based on Immobilized Polyoxoniobate for Decontamination of Chemical Warfare Agent Simulants. <i>Chemistry - A European Journal</i> , 2018, 24, 19208-19215.	3.3	35
30	Coupling Ni-substituted polyoxometalate catalysts with water-soluble CdSe quantum dots for ultraefficient photogeneration of hydrogen under visible light. <i>Applied Catalysis B: Environmental</i> , 2022, 303, 120893.	20.2	33
31	Three-in-one: achieving a robust and effective hydrogen-evolving hybrid material by integrating polyoxometalate, a photo-responsive metal-organic framework, and <i>in situ</i> generated Pt nanoparticles. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19725-19733.	10.3	32
32	Pentadecanuclear Fe-Containing Polyoxometalate Catalyst for Visible-Light-Driven Generation of Hydrogen. <i>Inorganic Chemistry</i> , 2021, 60, 4124-4132.	4.0	31
33	Efficient Photogeneration of Hydrogen Boosted by Long-Lived Dye-Modified Ir(III) Photosensitizers and Polyoxometalate Catalyst. <i>CCS Chemistry</i> , 2022, 4, 259-271.	7.8	29
34	A dual-functional supramolecular assembly for enhanced photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2022, 312, 121386.	20.2	29
35	Recent advances of mixed-transition-metal-substituted polyoxometalates. <i>Science China Chemistry</i> , 2022, 65, 1515-1525.	8.2	28
36	Syntheses, Structural Characterization, and Catalytic Properties of Di- and Trinickel Polyoxometalates. <i>Inorganic Chemistry</i> , 2016, 55, 461-466.	4.0	27

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37	Preparation of ZnO Nanoparticles and Photocatalytic H <sub>2</sub> Production Activity from Different Sacrificial Reagent Solutions. Chinese Journal of Chemical Physics, 2011, 24, 464-470.	1.3	25
38	Metal-Organic Cages with {SiW <sub>9</sub> Ni <sub>4</sub> } Polyoxotungstate Nodes. Angewandte Chemie - International Edition, 2022, 61, .	13.8	22
39	Syntheses and applications of perovskite-based photocatalysts in light-driven organic reactions. Current Opinion in Green and Sustainable Chemistry, 2021, 27, 100390.	5.9	21
40	Synthesis and textural evolution of alumina particles with mesoporous structures. Journal of Solid State Chemistry, 2010, 183, 1448-1456.	2.9	20
41	A Hexanuclear Cobalt(II) Cluster Incorporated in a Banana-Shaped Tungstovanadate: [(Co(OH) <sub>2</sub> )Co <sub>2</sub> VW <sub>9</sub> O <sub>34</sub> ] <sub>2</sub> (VW <sub>6</sub> O <sub>26</sub> ) <sub>2</sub> European Journal of Inorganic Chemistry, 2013, 2013, 1720-1725.		
42	Bis(4-(4-pyridyl)-2,2,6,6-tetrapyridine)ruthenium(ii) complexes and their N-alkylated derivatives in catalytic light-driven water oxidation. RSC Advances, 2013, 3, 20647.	3.6	18
43	CdTe/CdSe-sensitized photocathode coupling with Ni-substituted polyoxometalate catalyst for photoelectrochemical generation of hydrogen. Nano Research, 2022, 15, 1347-1354.	10.4	18
44	Collecting meaningful early-time kinetic data in homogeneous catalytic water oxidation with a sacrificial oxidant. Physical Chemistry Chemical Physics, 2014, 16, 11942-11949.	2.8	16
45	Two new Cu-based borate catalysts with cubic supramolecular cages for efficient catalytic hydrogen evolution. Dalton Transactions, 2020, 49, 10156-10161.	3.3	16
46	Wheel-shaped icosanuclear Cu-containing polyoxometalate catalyst: Mechanistic and stability studies on light-driven hydrogen generation. Chinese Journal of Catalysis, 2022, 43, 442-450.	14.0	16
47	Fabrication of alumina nanofibers by precipitation reaction combined with heterogeneous azeotropic distillation process. Materials Research Bulletin, 2009, 44, 160-167.	5.2	15
48	Polyoxometalate-modified reduced graphene oxide foam as a monolith reactor for efficient flow catalysis of epoxide ring-opening reactions. Journal of Materials Chemistry A, 2021, 9, 8480-8488.	10.3	15
49	A Layered Manganese(IV)-Containing Heteropolyvanadate with a 1:14 Stoichiometry. Inorganic Chemistry, 2015, 54, 10604-10609.	4.0	12
50	Chiral {Ni <sub>6</sub> PW <sub>9</sub> } Cluster-Organic Framework: Synthesis, Structure, and Properties. Inorganic Chemistry, 2022, 61, 7477-7483.	4.0	9
51	Multi-Electron-Transfer Catalysts Needed for Artificial Photosynthesis. Materials Research Society Symposia Proceedings, 2012, 1387, 1.	0.1	7
52	Synthesis of two new copper-sandwiched polyoxotungstates and the influence of nuclear number on catalytic hydrogen evolution activity. New Journal of Chemistry, 2020, 44, 11035-11041.	2.8	6
53	All-Inorganic Bis-Sb <sub>3</sub> O <sub>3</sub> -Functionalized A-Type Anderson-Evans Polyoxometalate for Visible-Light-Driven Hydrogen Production. Inorganic Chemistry, 2022, 61, 8467-8476.	4.0	6
54	Syntheses and catalytic properties of two new multi-manganese-substituted silicotungstates. Journal of Coordination Chemistry, 2020, 73, 2410-2421.	2.2	4

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55	Mechanistic Studies on the Photooxidation of 5-Hydroxymethylfurfural by Polyoxometalate Catalysts and Atmospheric Oxygen. ChemCatChem, 2021, 13, 1389-1395.	3.7	4
56	Metal-Organic Cages with $\{SiW_9Ni_4\}$ Polyoxotungstate Nodes. Angewandte Chemie, 0, , .	2.0	4
57	Structural and mechanistic studies of tunable, stable, fast multi-cobalt water oxidation catalysts. Proceedings of SPIE, 2011, , .	0.8	1
58	Advances of transition-metal-modified $\{P_2W_{12}\}$ -based polyoxometalates. Scientia Sinica Chimica, 2020, 50, 1015-1030.	0.4	0
59	Preface to the special issue on Polyoxometalates. Tungsten, 0, , .	4.8	0