

Lan-Cui Zhang

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Enhanced Visible Photovoltaic Response of TiO ₂ Thin Film with an All-Inorganic Donor-Acceptor Type Polyoxometalate. ACS Applied Materials & Interfaces, 2015, 7, 13714-13721.	8.0	78
2	A Novel Carboxyethyltin Functionalized Sandwich-type Germanotungstate: Synthesis, Crystal Structure, Photosensitivity, and Application in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 7876-7884.	8.0	71
3	Two carboxyethyltin functionalized polyoxometalates for assembly on carbon nanotubes as efficient counter electrode materials in dye-sensitized solar cells. Chemical Communications, 2014, 50, 14678-14681.	4.1	56
4	Three molybdophosphates based on Strandberg-type anions and Zn(ii)-H ₂ biim/H ₂ O subunits: syntheses, structures and catalytic properties. Dalton Transactions, 2014, 43, 5840-5846.	3.3	50
5	Seven Novel Lanthanide Oxalatophosphonates with Two Types of 3D Framework Structures Based on <i>N</i> -Morpholinomethylphosphonic Acid: Syntheses, Crystal Structures, and Luminescence Properties. Crystal Growth and Design, 2009, 9, 3228-3234.	3.0	45
6	Catalytic oxidation of diesel soot particulates over Ag/LaCoO ₃ perovskite oxides in air and NO _x . Chinese Journal of Catalysis, 2016, 37, 428-435.	14.0	33
7	New tetra(organotin)-decorated boat-like polyoxometalate. Dalton Transactions, 2010, 39, 3369.	3.3	31
8	Two Strandberg-type organophosphomolybdates: synthesis, crystal structures and catalytic properties. Dalton Transactions, 2014, 43, 17172-17176.	3.3	30
9	Three new extended Preyssler-type polyoxometalates modified by transition metal-2,2'-biimidazole complexes. Journal of Solid State Chemistry, 2012, 194, 270-276.	2.9	26
10	The research of a new polyoxometalates based photosensitizer on dye sensitized solar cell. Inorganic Chemistry Communication, 2013, 38, 78-82.	3.9	25
11	A strategy for breaking the MOF template to obtain small-sized and highly dispersive polyoxometalate clusters loaded on solid films. Journal of Materials Chemistry A, 2015, 3, 14573-14577.	10.3	25
12	Hydrothermal synthesis, crystal structures and characterizations of a novel 3D metal phosphonate: Mg _{0.5} Cd[O ₃ PCH(OH)CO ₂]. Inorganic Chemistry Communication, 2006, 9, 999-1001.	3.9	24
13	New estertin derivatives based on trivacant Keggin-type [β ² -SbW ₉ O ₃₃] cluster. Inorganic Chemistry Communication, 2010, 13, 609-612.	3.9	24
14	Two new sandwich-type tungstobismuthates constructed from trivacant Keggin units, estertin and transition metals. Inorganic Chemistry Communication, 2012, 17, 151-154.	3.9	23
15	Two New Armtype Polyoxometalates Grafted on Titanium Dioxide Films: Towards Enhanced Photoelectrochemical Performance. ChemSusChem, 2016, 9, 1125-1133.	6.8	23
16	Two New Preyssler-type Polyoxometalate-based Coordination Polymers and Their Application in Horseradish Peroxidase Immobilization. Chemistry - A European Journal, 2017, 23, 14614-14622.	3.3	22
17	Three new Strandberg-type phenylphosphomolybdate supports for immobilizing horseradish peroxidase and their catalytic oxidation performances. Dalton Transactions, 2018, 47, 14060-14069.	3.3	22
18	Hydrothermal synthesis and crystal structure of a novel lead(II) phosphonate containing trifunctional phosphonate anions: Pb ₄ O[O ₃ PCH ₂ NC ₄ H ₇ CO ₂] ₂ . Inorganic Chemistry Communication, 2006, 9, 1121-1124.	3.9	21

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19	Preparation of a g-C ₃ N ₄ /Co ₃ O ₄ /Ag ₂ O ternary heterojunction nanocomposite and its photocatalytic activity and mechanism. <i>New Journal of Chemistry</i> , 2020, 44, 6261-6268.	2.8	21
20	Synthesis and crystal structures of two new inorganic-organic hybrid polyoxomolybdate complexes: [Himi] ₄ {Co(imi) ₂ (H ₂ O) ₂ }Mo ₇ O ₂₄ ·4H ₂ O and [Zn(imi) ₄] ₂ [(imi) ₂ Mo ₈ O ₂₆]·6H ₂ O. <i>Inorganic Chemistry Communication</i> , 2007, 10, 757-761.	3.9	20
21	Controllable assembly, characterization and catalytic properties of a new Strandberg-type organophosphotungstate. <i>Dalton Transactions</i> , 2016, 45, 1631-1637.	3.3	20
22	Biomolecule-assisted hydrothermal synthesis of ZnxCd _{1-x} S nanocrystals and their outstanding photocatalytic performance for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 20970-20978.	7.1	19
23	Synthesis, characterization and catalytic activity of a new sandwich-type tungstophosphate functionalized by carboxyethyltin. <i>Inorganic Chemistry Communication</i> , 2013, 29, 33-36.	3.9	18
24	An open chain carboxyethyltin functionalized sandwich-type tungstophosphate based on a trivacant Dawson subunit: synthesis, characterization and properties. <i>Dalton Transactions</i> , 2015, 44, 6423-6430.	3.3	18
25	Two New {P ₈ W ₄₉ } Wheel-shaped Tungstophosphates Decorated by Co(II), Ni(II) Ions. <i>Journal of Cluster Science</i> , 2010, 21, 679-689.	3.3	17
26	Assembly of four copper(II)-2,2'-biimidazole complex-supported Strandberg-type phosphomolybdates. <i>Transition Metal Chemistry</i> , 2011, 36, 261-267.	1.4	17
27	Catalytic water oxidation based on Ag(<i>scp</i>)-substituted Keggin polyoxotungstophosphate. <i>Dalton Transactions</i> , 2014, 43, 17406-17415.	3.3	17
28	Magnetic properties and structure of a new one-dimensional azido-bridged nickel(II) coordination polymer. <i>Inorganic Chemistry Communication</i> , 2007, 10, 1335-1338.	3.9	14
29	Biomolecule-mediated hydrothermal synthesis of polyoxoniobate-CdS nanohybrids with enhanced photocatalytic performance for hydrogen production and RhB degradation. <i>Dalton Transactions</i> , 2017, 46, 9407-9414.	3.3	14
30	Hydrothermal syntheses and crystal structures of crystalline catalysts based on 3-D Ln ³⁺ -pdc ²⁻ frameworks and [BW ₁₂ O ₄₀] ⁵⁻ and their heterogeneous photocatalytic oxidation of thiophene. <i>Journal of Coordination Chemistry</i> , 2013, 66, 2829-2842.	2.2	13
31	A new boat-like tungstoarsenate functionalized by carboxyethyltin and its catalytic properties. <i>RSC Advances</i> , 2016, 6, 28956-28959.	3.6	13
32	Catalytic effects of [Ag(H ₂ O)(H ₃ PW ₁₁ O ₃₉)] ₃ on a TiO ₂ anode for water oxidation. <i>Chinese Journal of Catalysis</i> , 2018, 39, 534-541.	14.0	13
33	Four Strandberg-type polyoxometalates with organophosphine centre decorated by transition metal-2,2'-bipy/H ₂ O complexes. <i>Journal of Solid State Chemistry</i> , 2017, 253, 52-57.	2.9	12
34	Two Keggin sandwich-type tungstophosphates modified by open-chain carboxyethyltin groups and transition metals. <i>RSC Advances</i> , 2015, 5, 47319-47325.	3.6	11
35	Synthesis and Structure of [Co ₂ Bi ₂ (μ - or μ - η^2 -CoW ₉ O ₃₄) ₂] ₁₄ Isomers and Their Catalytic Water Oxidation. <i>Journal of Cluster Science</i> , 2013, 24, 549-558.	3.3	10
36	A POM-based copper-coordination polymer crystal material for phenolic compound degradation by immobilizing horseradish peroxidase. <i>Dalton Transactions</i> , 2021, 50, 15198-15209.	3.3	9

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37	A new host 3D copper(I/II)-pyrazinecarboxylate framework intercalated with Keggin polyoxotungstates. <i>Inorganica Chimica Acta</i> , 2011, 373, 137-141.	2.4	8
38	Carboxyethyltin and transition metal co-functionalized tungstoantimonates composited with polypyrrole for enhanced electrocatalytic methanol oxidation. <i>Dalton Transactions</i> , 2019, 48, 2977-2987.	3.3	8
39	Synthesis, spectroscopic properties and crystal structure of organophosphoryl polyoxotungstate $\text{[Bu}_4\text{N][PhCH}_2\text{P(O)}_2\text{SiW}_{11}\text{O}_{39}]$. <i>Journal of Coordination Chemistry</i> , 2006, 59, 1557-1564.	2.2	7
40	A novel 1D molybdenum oxide ribbon bridged by pyridine-4-carboxylic ligands: $[(\text{C}_6\text{H}_4\text{NO}_2)_2\text{Mo}_2\text{O}_5\text{OH}]$. <i>Inorganic Chemistry Communication</i> , 2007, 10, 23-26.	3.9	7
41	The kinetics and mechanism of photo-assisted $\text{Ag}(\text{SC}_2\text{O}_8)^{2-}$ -catalysed water oxidation with $\text{S}_2\text{O}_8^{2-}$. <i>Dalton Transactions</i> , 2015, 44, 710-717.	3.3	7
42	Extended visible photosensitivity of carboxyethyltin functionalized polyoxometalates with common organic dyes enabling enhanced photoelectric performance. <i>RSC Advances</i> , 2017, 7, 20685-20693.	3.6	7
43	Two new estertin modified tungstosilicates: synthesis, catalytic activity and photoelectrochemical property. <i>Dalton Transactions</i> , 2020, 49, 7234-7244.	3.3	7
44	Construction and visible-light photocatalytic performance of carboxyethyltin/transition metal-functionalized wheel-like tungstophosphates. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5720.	3.5	7
45	A New Anderson-type Heteropolyanion-Supported Transition Metal Complex: $[\text{Himi}]_2[\text{Ni}(\text{imi})_3(\text{H}_2\text{O})\{\text{Ni}(\text{OH})_6\text{Mo}_6\text{O}_{18}\}] \cdot 2\text{H}_2\text{O}$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 1173-1176.		
46	Hydrothermal Syntheses and Crystal Structures of Compounds Based on $\text{[Mo}_8\text{O}_{26}]^{4-}$ or $\text{[Mo}_8\text{O}_{26}]^{4-}$ Isomers. <i>Journal of Cluster Science</i> , 2010, 21, 93-103.	3.3	6
47	Photosensitive polyoxometalate-induced formation of thermotropic liquid crystal nanomaterial and its photovoltaic effect. <i>RSC Advances</i> , 2015, 5, 8194-8198.	3.6	6
48	Hydrothermal Synthesis, Crystal Structure and Electrochemical Property of a Ribbon-like Coordination Polymer based on Octamolybdate Anions. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 2639-2642.	1.2	4
49	Synthesis and catalytic activities of two new extended Preyssler-type tungstophosphates with different cavity centers. <i>Inorganic Chemistry Communication</i> , 2016, 73, 119-123.	3.9	4
50	A new carboxyethyltin functionalized sandwich-type tungstoarsenate: Synthesis, catalytic activity and corrosion inhibition behavior for carbon steel. <i>Inorganic Chemistry Communication</i> , 2017, 83, 44-48.	3.9	4
51	Corrosion Protection of Carbon Steel in Circulating Cooling Water by Open-chain Carboxyethyltin and Transition Metal Co-functionalized Tungstogermanates. <i>ChemistrySelect</i> , 2018, 3, 7358-7362.	1.5	4
52	Synthesis and characterization of two new $\text{[Mo}_8\text{O}_{26}]^{4-}$ -octamolybdate complexes $[\text{NH}_4][\text{Y}(\text{DMF})_5(\text{H}_2\text{O})_3][\text{Mo}_8\text{O}_{26}]\cdot 2\text{CH}_3\text{CN}$ and $[\text{NH}_4][\text{Ce}(\text{DMF})_7\text{Mo}_8\text{O}_{26}]$. <i>Journal of Coordination Chemistry</i> , 2007, 60, 985-993.	2.2	3
53	A new hexamolybdate-based copper(II)-biimidazole coordination polymer serving as an acid catalyst and support for enzyme immobilization. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018, 74, 1362-1369.	0.5	3
54	Enhanced photocatalytic performance in preyssler-type $\text{P}_5\text{W}_{30}\text{CdS}$ nanohybrids synthesized by l-cystine-mediated hydrothermal assembly. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13052-13060.	7.1	3

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55	Preparation of carboxyethyltin group-functionalized highly ordered mesoporous organosilica composite material with double acid sites. <i>Journal of Materials Science</i> , 2019, 54, 4601-4618.	3.7	3
56	Enhanced Corrosion Resistance of Carbon Steel in Hydrochloric Acid Solution by Polyoxometalate-Estertin Derivatives. <i>ACS Omega</i> , 2022, 7, 4429-4443.	3.5	3
57	Bis(dicyanamidato- η^2 N)(di-2-pyridylamine- η^2 N,N')nickel(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, m3068-m3070.	0.2	2
58	Three 2,2'-biimidazole transition metal complex-supported octamolybdates derived from hexamolybdochromate. <i>Transition Metal Chemistry</i> , 2012, 37, 303-307.	1.4	2
59	Diaquabis(2,2'-biimidazole)cobalt(II) dichloride. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, m308-m308.	0.2	2
60	Hydrothermal syntheses and crystal structures of two transition metal complexes supported by vanadate {V ₄ O ₁₂ }: {[M(dpa) ₂] ₂ V ₄ O ₁₂ } (M = Co, Ni. dpa = 2,2'-dipyridylamine). <i>Journal of Coordination Chemistry</i> , 2008, 61, 1475-1483.	2.2	1
61	Polyoxometalate Ionic Liquid-Catalyzed Ritter Reaction for Efficient Synthesis of Amides. <i>Synlett</i> , 0, , .	1.8	1
62	Mechanism of photo-induced water oxidation with [Ce(NO ₃) ₃] ₅ into O ₂ . <i>ChemistrySelect</i> , 2016, 1, 648-652.	1.5	0
63	Synthesis, characterization and electrocatalytic properties of two new open Wells-Dawson-type tungstosilicates. <i>Journal of Coordination Chemistry</i> , 2020, 73, 2437-2449.	2.2	0
64	2-(1,3-Dithian-2-ylidene)-1-phenylbutane-1,3-dione. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, o534-o534.	0.2	0