Shu-Zhong Zhan

List of Publications by Year
in descending order

94	1,282	394421 19	434195 31
papers	citations	h-index	g-index

94	94	94	976
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A dinuclear copper(II) electrocatalyst both water reduction and oxidation. Journal of Power Sources, 2015, 273, 298-304.	7.8	88
2	First mononuclear copper(II) electro-catalyst for catalyzing hydrogen evolution from acetic acid and water. International Journal of Hydrogen Energy, 2014, 39, 13972-13978.	7.1	79
3	A mononuclear copper electrocatalyst for both water reduction and oxidation. RSC Advances, 2014, 4, 53674-53680.	3.6	75
4	Visible-light-driven photocatalytic system based on a nickel complex over CdS materials for hydrogen production from water. Applied Catalysis B: Environmental, 2017, 219, 353-361.	20.2	63
5	A water-soluble dinuclear copper electrocatalyst, [Cu(oxpn)Cu(OH)2] for both water reduction and oxidation. Electrochimica Acta, 2015, 161, 388-394.	5.2	58
6	Electrochemical-driven water splitting catalyzed by a water-soluble cobalt(II) complex supported by N,Nâ€²-bis(2â€²-pyridinecarboxamide)-1,2-benzene with high turnover frequency. Journal of Power Sources, 2015, 287, 50-57.	7.8	47
7	Electrochemical and photochemical-driven hydrogen evolution catalyzed by a dinuclear CoIIâ€“CoII complex. Journal of Power Sources, 2015, 280, 453-458.	7.8	45
8	Electrochemical and photochemical-driven hydrogen evolution catalyzed by a dinuclear cobalt(II)â€“triazenido complex with high turnover number. International Journal of Hydrogen Energy, 2015, 40, 5099-5105.	7.1	41
9	Electrochemical-driven water reduction catalyzed by a water soluble cobalt(III) complex with Schiff base ligand. Electrochimica Acta, 2015, 178, 368-373.	5.2	39
10	A new copper(I)â€“triazenido electro-catalyst for catalyzing hydrogen evolution from acetic acid and water. Journal of Molecular Catalysis A, 2015, 396, 304-309.	4.8	39
11	Synthesis and studies of a molecular copper(I)-triazenido electrocatalyst for catalyzing hydrogen evolution from acetic acid and water. Polyhedron, 2015, 85, 355-360.	2.2	36
12	Synthesis and electrocatalytic function for hydrogen generation of cobalt and nickel complexes supported by phenylenediamine ligand. Inorganic Chemistry Communication, 2016, 72, 100-104.	3.9	29
13	Synthesis and electro-catalytic properties of a dinuclear palladium(I) 1,3-bis[(2-chloro)benzene]triazenide complex. Inorganica Chimica Acta, 2014, 410, 191-194.	2.4	28
14	The effect of oxidation state of metal on hydrogen production electro-catalyzed by nickel complexes supported by maleonitriledithiolate ligand. Journal of Electroanalytical Chemistry, 2017, 785, 58-64.	3.8	27
15	Electrochemical and photocatalytic hydrogen evolution by an electronâ€deficient cobalt tris(ethoxycarbonyl)corrole complex. Applied Organometallic Chemistry, 2017, 31, e3773.	3.5	27
16	A nickel complex, an efficient cocatalyst for both electrochemical and photochemical driven hydrogen production from water. Molecular Catalysis, 2018, 448, 10-17.	2.0	26
17	Transition metal tetrapentafluorophenyl porphyrin catalyzed hydrogen evolution from acetic acid and water. Transition Metal Chemistry, 2017, 42, 773-782.	1.4	23
18	Electrocatalytic Hydrogen Evolution of Cobalt and Freeâ€base Triaryl Corrole Bearing Hydroxyethyl Amino Groups. European Journal of Inorganic Chemistry, 2020, 2020, 491-498.	2.0	20

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19	Hydrogen evolution catalyzed by a water-soluble cobalt(II) complex with picolinic acid ions. International Journal of Hydrogen Energy, 2016, 41, 249-254.	7.1	19
20	A coordinatively saturated cobalt complex as a new kind catalyst for efficient electro- and photo-catalytic hydrogen production in purely aqueous media. International Journal of Hydrogen Energy, 2017, 42, 16428-16435.	7.1	19
21	A comparative study of electrocatalytic hydrogen evolution by iron complexes of corrole and porphyrin from acetic acid and water. Transition Metal Chemistry, 2019, 44, 399-406.	1.4	18
22	A molecular iron(III) electrocatalyst supported by amine-bis(phenolate) ligand for water reduction. International Journal of Hydrogen Energy, 2015, 40, 8688-8694.	7.1	17
23	Photocatalytic system with water soluble nickel complex of S,Sâ€²-bis(2-pyridylmethyl)-1,2-thioethane over CdS nanorods for hydrogen evolution from water under visible light. International Journal of Hydrogen Energy, 2018, 43, 19047-19056.	7.1	17
24	A new molecular electro-catalyst based on a triazenidoâ€“cobalt complex for generating hydrogen from both acetic acid and water. Catalysis Communications, 2015, 70, 26-29.	3.3	15
25	Synthesis of a molecular electrocatalyst based on an iron(III) complex supported by amine-bis(phenolate) ligand for water reduction. Polyhedron, 2015, 92, 124-129.	2.2	15
26	Electrocatalytic and photocatalytic hydrogen generation from water by a water-soluble cobaltÂcomplex supported by 2-ethyl-2-(2-hydroxybenzylideneamino)propane-1,3-diol. International Journal of Hydrogen Energy, 2016, 41, 14676-14683.	7.1	15
27	A heterogeneous photocatalytic system based on a nickel complex over a CdS nanorod photosensitizer for H2 generation from water under visible light. Catalysis Communications, 2018, 103, 15-18.	3.3	15
28	A bis(thiosemicarbazonato)-copper complex, a new catalyst for electro- and photo-reduction of CO2 to methanol. New Journal of Chemistry, 2020, 44, 2721-2726.	2.8	15
29	A new catalyst based on a nickel(II) complex of diiminodiphosphine for hydrogen evolution and oxidation. International Journal of Hydrogen Energy, 2021, 46, 32480-32489.	7.1	15
30	Synthesis, characterization and electrocatalytic performance of a dinuclear triazenidosilver(I) complex for hydrogen production. Applied Organometallic Chemistry, 2018, 32, e3997.	3.5	13
31	Electrocatalytic hydrogen evolution using triaryl corrole cobalt complex. Applied Organometallic Chemistry, 2020, 34, e5583.	3.5	13
32	A coordinatively saturated nickel complex supported by triazenido ligands: a new electrocatalyst for hydrogen generation via ligand-centered proton-transfer. New Journal of Chemistry, 2017, 41, 8503-8508.	2.8	12
33	Synthesis and electrocatalytic properties of a dinuclear copper(II) complex for generating hydrogen from acetic acid or water. Journal of Coordination Chemistry, 2015, 68, 573-585.	2.2	11
34	Synthesis and electro- and photo-catalytic properties of a dinuclear cobalt(III) complex supported by 2-pyridylamino-N,N-bis(2-methylene-4,6-bimethyl)phenol. Polyhedron, 2016, 107, 83-88.	2.2	11
35	Synthesis, characterization, luminescent, and catalytic performance of a dinuclear triazenidoâ€“silver complex. Journal of Coordination Chemistry, 2018, 71, 1193-1204.	2.2	11
36	An efficient catalyst based on a waterâ€soluble cobalt(II) complex of S,Sâ€²â€bis(2â€pyridylmethyl)â€1,2â€thiobenzene for electrochemicalâ€and photochemicalâ€driven hydrogen evolution. Applied Organometallic Chemistry, 2020, 34, e5390.	3.5	11

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37	Synthesis and properties of a molybdenum Schiff base electrocatalyst for generating hydrogen from acetic acid. Transition Metal Chemistry, 2014, 39, 933-937.	1.4	10
38	Synthesis and catalytic properties of an iron(III) complex supported by amine-bis(phenolate) ligand. Journal of Coordination Chemistry, 2015, 68, 2286-2295.	2.2	10
39	Synthesis, Structure, Magnetic and Electrochemical Properties of a Dinuclear Copper Complex. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 860-865.	1.2	10
40	Electrocatalytic hydrogen evolution by cobalt triaryl corroles with appended ester and carboxyl on the 10-phenyl group. Journal of Coordination Chemistry, 2021, 74, 1414-1424.	2.2	10
41	Synthesis, crystal structures and magnetic properties of a series of new cyano-bridged complexes derived from templates [Ni(CN)₄]^{2â^'} and [Co(III)(CN)₆]^{3â^'}. Journal of Coordination Chemistry, 2008, 61, 550-562.	2.2	9
42	Electro- and photo-chemical driven water reduction catalyzed by a cobalt(III) complex with high turnover number. Journal of Molecular Catalysis A, 2015, 404-405, 227-232.	4.8	9
43	Synthesis and reactivity with M(II) (M=Co and Cu) chloride of 1-[(2-carboxyethyl)benzene]-3-[benzothiazole]triazene. Journal of Coordination Chemistry, 2011, 64, 449-458.	2.2	8
44	Electrochemical-driven water reduction and oxidation catalyzed by an iron(<scp>iii</scp>) complex supported by 2,3-bis(2-hydroxybenzylideneimino)-2,3-butenedinitrile. RSC Advances, 2015, 5, 42287-42293.	3.6	8
45	A water soluble cocatalyst based on a cobalt(II) complex of S,Sâ€™-bis(2-pyridylmethyl)-1,2-thioethane for photochemical driven hydrogen evolution from water under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 364, 650-656.	3.9	8
46	Synthesis and properties of 1,3-bis[(2-bromo)benzene]triazene and its binuclear silver complex. Inorganic and Nano-Metal Chemistry, 2020, 50, 630-636.	1.6	7
47	The assembly, synthesis and properties of a trinuclear cyano-bridged Cu^{II}â€“Mo^{IV}â€“Cu^{II} complex. Journal of Coordination Chemistry, 2008, 61, 1399-1405.	2.2	6
48	Synthesis, structure, and properties of a binuclear Fe(III) complex with N-(1-propanol)-N,N-bis(3-tert-butyl-5-methyl-2-hydroxybenxyl)amine. Transition Metal Chemistry, 2010, 35, 999-1003.	1.4	6
49	Isolation and Properties of a Chain of Cyano-Bridged Complex {LCuII(Î¼-CN)}n With Triazenido Ligand and a Cyano-Bridged Mixed-Valence Complex {CuIICuI(Î¼-CN)3}n. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 1375-1380.	0.6	6
50	A molecular cobalt catalyst supported by an amine-bis(phenolate) ligand for both electrolytic and photolytic water reduction. RSC Advances, 2015, 5, 84770-84775.	3.6	6
51	Electrochemical and photochemical hydrogen generation by a water soluble cobalt(II) complex of 2,2-bipyridine. Transition Metal Chemistry, 2017, 42, 711-717.	1.4	6
52	Synthesis, characterization and properties of a copper complex with dicyano acetic acid methyl ester ligand derived from tetracyanoethylene. Polyhedron, 2017, 121, 13-18.	2.2	6
53	Effect of metal centers of complexes bearing bipyridine ligand for electrochemicalâ€•and photochemicalâ€driven hydrogen evolution. Applied Organometallic Chemistry, 2022, 36, e6453.	3.5	6
54	Effects of metal centers of complexes supported by S,Sâ€²â€bis(2â€pyridylmethyl)â€1,2â€thioethane on catalytic activities for electrochemicalâ€•and photochemicalâ€driven hydrogen production. Applied Organometallic Chemistry, 2020, 34, e5776.	3.5	6

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55	Synthesis, structures, and magnetic behavior of two high-spin binuclear Fe(III) complexes. Journal of Coordination Chemistry, 2011, 64, 2606-2617.	2.2	5
56	Synthesis and characterization of a molecular electrocatalyst based on an iron(III) complex supported by an amine-bis(phenolate) ligand for proton or water reduction. Transition Metal Chemistry, 2015, 40, 525-529.	1.4	5
57	Function of triazenido compound for electrocatalytic hydrogen production catalyzed by platinum complex. Journal of Coordination Chemistry, 2016, 69, 2832-2844.	2.2	5
58	Design, synthesis and characterization of a co-photocatalyst based on a copper (II) complex of S,Sâ€²-bis(2-pyridylmethyl)-1,2-thioethane for hydrogen production under visible light. Inorganic Chemistry Communication, 2019, 107, 107464.	3.9	5
59	{[Ag2 (Î¼-dppm)2 (Î¼-TCNQ)2](TCNQ)}, a charge transfer compound derived from a donor with a metalâ€“metal bond. Journal of Coordination Chemistry, 2009, 62, 1536-1543.	2.2	4
60	Copper complexes of 1-[(2-carboxyethyl)benzene]-3-[2-pyridine]triazene. Transition Metal Chemistry, 2011, 36, 255-260.	1.4	4
61	Synthesis and Structures of Dinuclear Copper(I) and Silver(I) 1, 3â€Bis[(2â€chloro)benzene]triazenide Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1519-1522.	1.2	4
62	Synthesis of an electro-catalyst based on a cobalt(II) complex with dimethylaminoethylamino-N,N-bis(2-methylene-4-tert-butyl-6-methylphenol). Journal of Coordination Chemistry, 2016, 69, 628-637.	2.2	4
63	Synthesis, structure and electrocatalytic properties of a waterâ€soluble copper complex supported by 2â€ethylâ€2â€(2â€hydroxybenzylideneamino)propaneâ€1,3â€diol ligand. Applied Organometallic Chemistry, 2017, 31, e3797.	3.5	4
64	Synthesis, structure, characterization, EPR investigation and catalytic behavior for hydrogen evolution of a bis(thiosemicarbazonato)-palladium complex. Polyhedron, 2021, 208, 115426.	2.2	4
65	Synthesis, structure, and magnetic properties of a tetranuclear copper(fII) complex with a triazenido ligand. Transition Metal Chemistry, 2010, 35, 835-839.	1.4	3
66	Synthesis, Structures, and Properties of Binuclear and Trinuclear Silver(I) Complexes Supported by P Ligands (dppm, PPh₃). Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 183-189.	0.6	3
67	Synthesis and Reactivity of 1-[(2-methoxy)benzene]- 3-[benzothiazole]Triazene With Copper(II) or Cobalt(II) Chloride. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 764-769.	0.6	3
68	Synthesis, Magnetic and Electrocatalytic Properties of a Dinuclear Triazendioâ€Nickel(II) Complex. ChemistrySelect, 2017, 2, 8673-8678.	1.5	3
69	Design, synthesis, characterization and electrocatalytic behaviour of a dinuclear palladium(I) complex supported by 1-[(2-chloro)benzene]-3-[(2-carboxmethyl)benzene]triazenide ions. Polyhedron, 2019, 163, 108-113.	2.2	3
70	Synthesis, structures, characterizations and catalytic behaviors for hydrogen evolution of copper(II) and copper(I) complexes supported by diiminodiphosphines. Inorganic Chemistry Communication, 2021, 130, 108719.	3.9	3
71	A Water Soluble Cobalt(II) Complex with 1,10-Phenanthroline, a Catalyst for Visible-Light-Driven Reduction of CO2 to CO with High Selectivity. Catalysis Letters, 2022, 152, 1961-1968.	2.6	3
72	Synthesis, crystal structure, magnetic properties and electrochemical behavior of the mixed valence compound [CuI(CN)3CuII(dipn)]. Journal of Coordination Chemistry, 2007, 60, 2747-2754.	2.2	2

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73	[Cu₃(dppm)₃(Î¼ ₃-I)₂][(0.5TCNQ)], a radical salt derived from a donor with a copper(I) trimer. Journal of Coordination Chemistry, 2008, 61, 4004-4010.	2.2	2
74	Synthesis and structures of copper(I) and cobalt(III) dimers with the dicyano-acetic acid methyl ester anion derived from TCNE. Transition Metal Chemistry, 2009, 34, 599-603.	1.4	2
75	Synthesis, Structures, and Magnetic Behavior of Two Binuclear Fe(III) Complexes of N-(1-ethanol)-N,N-bis(3,5-di-tert-butyl-2-hydroxybenxyl)amine and N-(3-amino-1-) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 6 Metal Organic, and Nano Metal Chemistry, 2014, 44, 48-54.	0.6	2
76	Synthesis, characterization, and catalytic properties of a cobalt(II) complex supported by an amine-bis(phenolate) ligand. Transition Metal Chemistry, 2016, 41, 819-825.	1.4	2
77	Synthesis, characterization, magnetic anisotropy and catalytic behaviors of a cobalt complex of S,Sâ€²-bis(2-pyridylmethyl)-1,2-thiobenzene. Inorganica Chimica Acta, 2020, 503, 119400.	2.4	2
78	Synthesis, Characterization, and Electrocatalytic Behavior for Hydrogen Evolution of a Dinuclear Copper(II) Complex of 1â€²(2â€²carboxymethyl) benzene]â€³3â€²(2â€²carboxybenzene] triazene. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 1458-1463.	1.2	2
79	Effects of halogen ligands of complexes supported by bis(methylthioether)pyridine on catalytic activities for electrochemical and photochemical driven hydrogen evolution. Applied Organometallic Chemistry, 2021, 35, e6201.	3.5	2
80	The effect of oxidation state of metal on electrochemical and photochemical driven hydrogen evolution catalyzed by nickel complexes of maleonitriledithiolate ligands. Inorganic and Nano-Metal Chemistry, 2020, 50, 521-528.	1.6	2
81	A nickel(II) complex of 2,6-pyridinedicarboxylic acid ion, an efficient electro-catalyst for both hydrogen evolution and oxidation. Molecular Catalysis, 2021, 516, 111947.	2.0	2
82	A bis(thiosemicarbazonato)â€zinc complex, an electrocatalyst for hydrogen evolution and oxidation via ligandâ€assisted metalâ€centered reactivity. Applied Organometallic Chemistry, 0, , .	3.5	2
83	Synthesis and electrocatalytic properties of a cobalt(II) complex supported by N,N-dimethylethylenediamino-N,N-bis(2-tert-butyl-4-ethylphenol). Transition Metal Chemistry, 2016, 41, 623-627.	1.4	1
84	Synthesis, characterization and electrocatalytic performance of a cobalt(II) complex of N-phenylpyridin-2-ylmethanimine. Transition Metal Chemistry, 2017, 42, 615-621.	1.4	1
85	Synthesis, structure, characterization and catalytic behavior of a bis(thiosemicarbazonato)-nickel complex. Journal of Coordination Chemistry, 0, , 1-14.	2.2	1
86	An infinite chain, {[Ni(tn)2]3[Fe(CN)4(Î¼-CN)2]2}n, a new catalyst for electrochemical-driven water splitting and photochemical-driven hydrogen evolution from water under blue light. International Journal of Hydrogen Energy, 2022, 47, 2279-2292.	7.1	1
87	Electrochemical-driven water reduction and oxidation catalyzed by an iron(III) complex supported by a N2O2 ligand. Journal of Electroanalytical Chemistry, 2021, 906, 115895.	3.8	1
88	A mono-oxo-bridged binuclear iron(iii) complex with a Feâ€“Oâ€“Fe angle of 180.0Â° and its catalytic activity for hydrogen evolution. New Journal of Chemistry, 0, , .	2.8	1
89	Synthesis, Structures, and Magnetic Behavior of Two Binuclear Fe(III) Complexes. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 638-643.	0.6	0
90	Synthesis, structure, magnetic and catalytic behavior of a dinuclear copper(II) complex with triazendio ligands. Transition Metal Chemistry, 2018, 43, 431-437.	1.4	0

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91	Impact of oxidation state of metal on electro-catalyzed hydrogen production by cobalt complexes of N-phenylpyridin-2-ylmethanimine. Journal of Coordination Chemistry, 2021, 74, 864-876.	2.2	0
92	A nickel complex of 2,2-dicyanoethylene-1,1-dithiolate, a catalyst for electrochemical and photochemical driven hydrogen evolution. Inorganic and Nano-Metal Chemistry, 2022, 52, 533-541.	1.6	0
93	A Water-soluble Cobalt(II) Compound Co(TCNQ)2, An Electrocatalyst for Hydrogen Evolution from Acetic Acid and Water. Current Catalysis, 2017, 6, .	0.5	0
94	Synthesis, structure, magnetic and electrocatalytic properties of a dinuclear triazendio-copper(II) complex. Inorganic and Nano-Metal Chemistry, 0, , 1-9.	1.6	0