Ming-Tian Zhang

List of Publications by Year
in descending order

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43 papers	3,523 citations	201575 27 h-index	233338 45 g-index
49 all docs	49 docs citations	49 times ranked	3515 citing authors

#	Article	IF	Citations
1	Electrocatalytic Water Oxidation with a Copper(II) Polypeptide Complex. Journal of the American Chemical Society, 2013, 135, 2048-2051.	6.6	429
2	Hydride, Hydrogen Atom, Proton, and Electron Transfer Driving Forces of Various Five-Membered Heterocyclic Organic Hydrides and Their Reaction Intermediates in Acetonitrile. Journal of the American Chemical Society, 2008, 130, 2501-2516.	6.6	309
3	Fast and Simple Preparation of Ironâ€Based Thin Films as Highly Efficient Waterâ€Oxidation Catalysts in Neutral Aqueous Solution. Angewandte Chemie - International Edition, 2015, 54, 4870-4875.	7.2	256
4	Homogeneous Electrocatalytic Water Oxidation at Neutral pH by a Robust Macrocyclic Nickel(II) Complex. Angewandte Chemie - International Edition, 2014, 53, 13042-13048.	7.2	251
5	Electrocatalytic Water Oxidation by a Dinuclear Copper Complex in a Neutral Aqueous Solution. Angewandte Chemie - International Edition, 2015, 54, 4909-4914.	7.2	228
6	Electrocatalytic Water Oxidation by a Monomeric Amidate-Ligated Fe(III)â€“Aqua Complex. Journal of the American Chemical Society, 2014, 136, 5531-5534.	6.6	209
7	Singleâ€Site Copper(II) Water Oxidation Electrocatalysis: Rate Enhancements with HPO₄^{2â^'} as a Proton Acceptor at pHâ€...8. Angewandte Chemie - International Edition, 2014, 53, 12226-12230.	7.2	188
8	A Supramolecular Radical Dimer: Highâ€Efficiency NIRâ€II Photothermal Conversion and Therapy. Angewandte Chemie - International Edition, 2019, 58, 15526-15531.	7.2	168
9	Redox-Active Ligand Assisted Multielectron Catalysis: A Case of Co^{III} Complex as Water Oxidation Catalyst. Journal of the American Chemical Society, 2018, 140, 1557-1565.	6.6	125
10	Proton-Coupled Electron Transfer from Tyrosine: A Strong Rate Dependence on Intramolecular Proton Transfer Distance. Journal of the American Chemical Society, 2011, 133, 13224-13227.	6.6	114
11	Cu(II) Aliphatic Diamine Complexes for Both Heterogeneous and Homogeneous Water Oxidation Catalysis in Basic and Neutral Solutions. ACS Catalysis, 2016, 6, 77-83.	5.5	90
12	Proton-Coupled Electron Transfer from Tryptophan: A Concerted Mechanism with Water as Proton Acceptor. Journal of the American Chemical Society, 2011, 133, 8806-8809.	6.6	78
13	Cu(ii)/Cu(0) electrocatalyzed CO2 and H2O splitting. Energy and Environmental Science, 2013, 6, 813.	15.6	76
14	Spanning Four Mechanistic Regions of Intramolecular Proton-Coupled Electron Transfer in a Ru(bpy)₃²⁺â€“Tyrosine Complex. Journal of the American Chemical Society, 2012, 134, 16247-16254.	6.6	75
15	Making syngas electrocatalytically using a polypyridyl ruthenium catalyst. Chemical Communications, 2014, 50, 335-337.	2.2	61
16	Bioinspired Trinuclear Copper Catalyst for Water Oxidation with a Turnover Frequency up to 20000 s^{â€“1}. Journal of the American Chemical Society, 2021, 143, 19761-19768.	6.6	55
17	Electrocatalytic Water Oxidation by an Unsymmetrical Di-Copper Complex. Inorganic Chemistry, 2018, 57, 10481-10484.	1.9	54
18	Role of Proton-Coupled Electron Transfer in the Redox Interconversion between Benzoquinone and Hydroquinone. Journal of the American Chemical Society, 2012, 134, 18538-18541.	6.6	48

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19	A chiral ion-pair photoredox organocatalyst: enantioselective anti-Markovnikov hydroetherification of alkenols. Organic Chemistry Frontiers, 2017, 4, 1037-1041.	2.3	48
20	A Supramolecular Radical Dimer: Highâ€Efficiency NIRâ€II Photothermal Conversion and Therapy. Angewandte Chemie, 2019, 131, 15672-15677.	1.6	44
21	Redoxâ€Active Ligand Assisted Catalytic Water Oxidation by a Ru^{IV}=O Intermediate. Angewandte Chemie - International Edition, 2020, 59, 4000-4008.	7.2	40
22	Photocatalytic Hydrogen Production with Conjugated Polymers as Photosensitizers. ACS Applied Materials & Interfaces, 2018, 10, 10828-10834.	4.0	39
23	Bimetallic cooperative effect on Oâ€“O bond formation: copper polypyridyl complexes as water oxidation catalyst. Dalton Transactions, 2018, 47, 8670-8675.	1.6	39
24	Metal-Free Electrocatalyst for Water Oxidation Initiated by Hydrogen Atom Transfer. ACS Catalysis, 2021, 11, 68-73.	5.5	32
25	Organic Photocatalytic Cyclization of Polyenes: A Visibleâ€Lightâ€Mediated Radical Cascade Approach. Chemistry - A European Journal, 2015, 21, 14723-14727.	1.7	28
26	Ironâ€Catalyzed Water Oxidation: Oâ€“O Bond Formation via Intramolecular Oxoâ€“Oxo Interaction. Angewandte Chemie - International Edition, 2021, 60, 12467-12474.	7.2	28
27	Highly efficient and selective photocatalytic CO₂ to CO conversion in aqueous solution. Chemical Communications, 2020, 56, 3851-3854.	2.2	28
28	Bimolecular proton-coupled electron transfer from tryptophan with water as the proton acceptor. Energy and Environmental Science, 2012, 5, 7732.	15.6	26
29	Bioinspired molecular clusters for water oxidation. Coordination Chemistry Reviews, 2021, 448, 214164.	9.5	24
30	Proton-Coupled Electron Transfer in a Series of Ruthenium-Linked Tyrosines with Internal Bases: Evaluation of a Tunneling Model for Experimental Temperature-Dependent Kinetics. Journal of Physical Chemistry B, 2016, 120, 9308-9321.	1.2	17
31	Bio-inspired lanthanum-ortho-quinone catalysis for aerobic alcohol oxidation: semi-quinone anionic radical as redox ligand. Nature Communications, 2022, 13, 428.	5.8	14
32	Trinuclear Nickel Catalyst for Water Oxidation: Intramolecular Proton-Coupled Electron Transfer Triggered Trimetallic Cooperative Oâ€“O Bond Formation. CCS Chemistry, 2023, 5, 245-256.	4.6	14
33	Proton-Coupled Electron-Transfer Reduction of Dioxygen: The Importance of Precursor Complex Formation between Electron Donor and Proton Donor. Journal of the American Chemical Society, 2022, 144, 12459-12468.	6.6	14
34	Tuning Excitedâ€State Reactivity by Protonâ€Coupled Electron Transfer. Angewandte Chemie - International Edition, 2016, 55, 13132-13136.	7.2	12
35	Redoxâ€Active Ligand Assisted Catalytic Water Oxidation by a Ru IV =O Intermediate. Angewandte Chemie, 2020, 132, 4029-4037.	1.6	11
36	Bimetallic water oxidation: One-site catalysis with two-sites oxidation. Journal of Energy Chemistry, 2021, 63, 1-7.	7.1	11

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37	Multiple Pathways in the Oxidation of a NADH Analogue. Inorganic Chemistry, 2014, 53, 4100-4105.	1.9	10
38	Tuning Excitedâ€State Reactivity by Protonâ€Coupled Electron Transfer. Angewandte Chemie, 2016, 128, 13326-13330.	1.6	5
39	Visible-light-mediated C(sp3)-H activation by photo-induced hydrogen-atom transfer. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 355, 109-113.	2.0	4
40	Ironâ€Catalyzed Water Oxidation: Oâ€“O Bond Formation via Intramolecular Oxoâ€“Oxo Interaction. Angewandte Chemie, 2021, 133, 12575-12582.	1.6	4
41	Proton-coupled electron transfer oxidation of Oâ€“H bond by the N-radical cation of Wurster's blue salt (TMPDAË™⁺). Chemical Communications, 2019, 55, 3465-3468.	2.2	2
42	Frontispiece: Homogeneous Electrocatalytic Water Oxidation at Neutral pH by a Robust Macrocyclic Nickel(II) Complex. Angewandte Chemie - International Edition, 2014, 53, .	7.2	0
43	The Application of Pincer Ligand in Catalytic Water Splitting. Topics in Organometallic Chemistry, 2020, , 379.	0.7	0