

Oxygen Activation and Radical Transformations in Hem

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Citation Report

#	ARTICLE	IF	CITATIONS
3	Hybrid Metalloporphyrin Magnetic Nanoparticles as Catalysts for Sequential Transformation of Alkenes and CO ₂ into Cyclic Carbonates. <i>ChemCatChem</i> , 2018, 10, 2792-2803.	1.8	34
4	Immune-modulating enzyme indoleamine 2,3-dioxygenase is effectively inhibited by targeting its apo-form. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3249-3254.	3.3	157
5	Mn-Mimochrome VI ^a : An Artificial Metalloenzyme With Peroxygenase Activity. <i>Frontiers in Chemistry</i> , 2018, 6, 590.	1.8	23
6	Photoexcited state chemistry of metal-oxygen complexes. <i>Dalton Transactions</i> , 2018, 47, 16019-16026.	1.6	8
7	Oxygen-Oxygen Bond Cleavage and Formation in Co(II)-Mediated Stoichiometric O ₂ Reduction via the Potential Intermediacy of a Co(IV) Oxyl Radical. <i>Journal of the American Chemical Society</i> , 2018, 140, 16094-16105.	6.6	50
8	Efficient Palladium-Catalyzed Aerobic Arylative Carbocyclization of Enallenynes. <i>Angewandte Chemie</i> , 2018, 130, 17084-17088.	1.6	18
9	A Manganese(V)-Oxo Tetraamido Macrocyclic Ligand (TAML) Cation Radical Complex: Synthesis, Characterization, and Reactivity Studies. <i>Chemistry - A European Journal</i> , 2018, 24, 17927-17931.	1.7	17
10	Multifunctional Catalysts for H ₂ O ₂ -Resistant Hydrogen Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15792-15796.	7.2	8
11	Metalloporphyrins: Bioinspired Oxidation Catalysts. <i>ACS Catalysis</i> , 2018, 8, 10784-10808.	5.5	122
12	Multifunctional Catalysts for H ₂ O ₂ -Resistant Hydrogen Fuel Cells. <i>Angewandte Chemie</i> , 2018, 130, 16018-16022.	1.6	3
13	Efficient Palladium-Catalyzed Aerobic Arylative Carbocyclization of Enallenynes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16842-16846.	7.2	29
14	Synthetic Fe/Cu Complexes: Toward Understanding Heme-Copper Oxidase Structure and Function. <i>Chemical Reviews</i> , 2018, 118, 10840-11022.	23.0	166
15	Copper-Catalyzed Radical Relay for Asymmetric Radical Transformations. <i>Accounts of Chemical Research</i> , 2018, 51, 2036-2046.	7.6	422
16	Mechanistic study of styrene aziridination by iron(IV) nitrides. <i>Chemical Science</i> , 2018, 9, 8542-8552.	3.7	20
17	Hydrogen Atom Transfer Reactions of Mononuclear Nonheme Metal-Oxygen Intermediates. <i>Accounts of Chemical Research</i> , 2018, 51, 2014-2022.	7.6	94
18	Thiyl radical promoted chemo- and regioselective oxidation of C-H bonds using molecular oxygen via iron catalysis. <i>Green Chemistry</i> , 2018, 20, 4521-4527.	4.6	43
19	Engineered Metalloenzymes with Non-Canonical Coordination Environments. <i>Chemistry - A European Journal</i> , 2018, 24, 11821-11830.	1.7	33
20	Relationship between Hydrogen-Atom Transfer Driving Force and Reaction Rates for an Oxomanganese(IV) Adduct. <i>Inorganic Chemistry</i> , 2018, 57, 8253-8263.	1.9	19

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21	Mechanisms of catalytic reduction of CO ₂ with heme and nonheme metal complexes. <i>Chemical Science</i> , 2018, 9, 6017-6034.	3.7	105
22	Intramolecular Hydrogen Bonding Enhances Stability and Reactivity of Mononuclear Cupric Superoxide Complexes. <i>Journal of the American Chemical Society</i> , 2018, 140, 9042-9045.	6.6	70
23	Transition State Search Using rPM6: Iron- and Manganese-Catalyzed Oxidation Reactions as a Test Case. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1377-1389.	2.0	4
24	Formation and Cleavage of C-C Bonds by Enzymatic Oxidation-Reduction Reactions. <i>Chemical Reviews</i> , 2018, 118, 6573-6655.	23.0	172
25	Engineering P450 _{LaMO} stereospecificity and product selectivity for selective C-H oxidation of tetralin-like alkylbenzenes. <i>Catalysis Science and Technology</i> , 2018, 8, 4638-4644.	2.1	17
26	Mn(III)-Iodosylarene Porphyrins as an Active Oxidant in Oxidation Reactions: Synthesis, Characterization, and Reactivity Studies. <i>Inorganic Chemistry</i> , 2018, 57, 10232-10240.	1.9	30
27	Enantioselective aliphatic C-H bond oxidation catalyzed by bioinspired complexes. <i>Chemical Communications</i> , 2018, 54, 9559-9570.	2.2	69
28	Quantum Mechanics/Molecular Mechanics Studies on the Relative Reactivities of Compound I and II in Cytochrome P450 Enzymes. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1974.	1.8	14
29	Metalloporphyrin-Catalyzed Oxidation of Sunitinib and Pazopanib, Two Anticancer Tyrosine Kinase Inhibitors: Evidence for New Potentially Toxic Metabolites. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 7849-7860.	2.9	25
30	Confinement of Fe-Al-PMOF catalytic sites favours the formation of pyrazoline from ethyl diazoacetate with an unusual sharp increase of selectivity upon recycling. <i>Chemical Communications</i> , 2018, 54, 10308-10311.	2.2	19
31	Design of oxophilic metalloporphyrins: an experimental and DFT study of methanol binding. <i>Dalton Transactions</i> , 2018, 47, 11572-11585.	1.6	12
32	Enhanced Electron-Transfer Reactivity of a Long-Lived Photoexcited State of a Cobalt-Oxygen Complex. <i>Inorganic Chemistry</i> , 2018, 57, 10945-10952.	1.9	14
33	Enhancement of Peroxidase Activity in Artificial Mimochrome...VI Catalysts through Rational Design. <i>ChemBioChem</i> , 2018, 19, 1823-1826.	1.3	38
34	Mapping hole hopping escape routes in proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15811-15816.	3.3	35
35	Stabilization of different redox levels of a tridentate benzoxazole amidophenoxide ligand when bound to Co(III) or V(V). <i>Dalton Transactions</i> , 2019, 48, 13326-13336.	1.6	7
36	Chemoselectivity in the Oxidation of Cycloalkenes with a Non-Heme Iron(IV)-Oxo-Chloride Complex: Epoxidation vs. Hydroxylation Selectivity. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1923-1933.	1.2	9
37	Steric control of dioxygen activation pathways for MnII complexes supported by pentadentate, amide-containing ligands. <i>Dalton Transactions</i> , 2019, 48, 13034-13045.	1.6	10
38	The multifunctional globin dehaloperoxidase strikes again: Simultaneous peroxidase and peroxygenase mechanisms in the oxidation of EPA pollutants. <i>Archives of Biochemistry and Biophysics</i> , 2019, 673, 108079.	1.4	12

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39	Enhanced Rates of C-H Bond Cleavage by a Hydrogen-Bonded Synthetic Heme High-Valent Iron(IV) Oxo Complex. <i>Journal of the American Chemical Society</i> , 2019, 141, 12558-12569.	6.6	39
40	Catalytic recycling of NAD(P)H. <i>Journal of Inorganic Biochemistry</i> , 2019, 199, 110777.	1.5	38
41	Ligand Identity-Induced Generation of Enhanced Oxidative Hydrogen Atom Transfer Reactivity for a $\text{Cu}(\text{O}_2\text{C}^{\ominus})_2$ Complex Driven by Formation of a $\text{Cu}(\text{O}^{\ominus}\text{OOH})$ Compound with a Strong O-H Bond. <i>Journal of the American Chemical Society</i> , 2019, 141, 12682-12696.	6.6	28
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44	CO_2 Reduction on an Iron-Porphyrin Center: A Computational Study. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6527-6535.	1.1	45
45	Bioinspired Manganese and Iron Complexes for Enantioselective Oxidation Reactions: Ligand Design, Catalytic Activity, and Beyond. <i>Accounts of Chemical Research</i> , 2019, 52, 2370-2381.	7.6	102
46	Highly Reactive Manganese(IV)-Oxo Porphyrins Showing Temperature-Dependent Reversed Electronic Effect in C-H Bond Activation Reactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 12187-12191.	6.6	53
47	Formation of compound I in heme bound Al^2 -peptides relevant to Alzheimer's disease. <i>Chemical Science</i> , 2019, 10, 8405-8410.	3.7	14
48	Rational Design of Artificial Metalloproteins and Metalloenzymes with Metal Clusters. <i>Molecules</i> , 2019, 24, 2743.	1.7	29
49	Photocatalytic Oxygenation Reactions Using Water and Dioxygen. <i>ChemSusChem</i> , 2019, 12, 3931-3940.	3.6	33
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52	UV Resonance Raman Characterization of a Substrate Bound to Human Indoleamine 2,3-Dioxygenase 1. <i>Biophysical Journal</i> , 2019, 117, 706-716.	0.2	1
53	New class of tridentate 3N ligands and copper(II) complexes: A model for type-2 copper site of phenoxazinone synthase. <i>Inorganic Chemistry Communication</i> , 2019, 110, 107608.	1.8	11
54	Boron-based stepwise dioxygen activation with 1,4,2,5-diazadiborinine. <i>Chemical Science</i> , 2019, 10, 2088-2092.	3.7	23
55	DFT studies on the structure and stability of tetraaza macrocyclic nickel(II) complexes containing dicarbinolamine ligand moiety. <i>Journal of Chemical Sciences</i> , 2019, 131, 1.	0.7	3
56	A High-Valent Manganese(IV)-Oxo-Cerium(IV) Complex and Its Enhanced Oxidizing Reactivity. <i>Angewandte Chemie</i> , 2019, 131, 16270-16275.	1.6	7

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57	Impact of Intramolecular Hydrogen Bonding on the Reactivity of Cupric Superoxide Complexes with O ^α -H and C ^α -H Substrates. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17572-17576.	7.2	28
58	A High-Valent Manganese(IV)-Oxo-Cerium(IV) Complex and Its Enhanced Oxidizing Reactivity. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16124-16129.	7.2	34
59	Comparative study of relationship between structure of phenylethanoid glycopyranosides and their activities using cell-free assays and human cells cultured in vitro. <i>Toxicology in Vitro</i> , 2019, 61, 104646.	1.1	7
60	A Career in Catalysis: Odile Eisenstein. <i>ACS Catalysis</i> , 2019, 9, 10375-10388.	5.5	2
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63	The influencing factors of satisfaction and lending intention in online lending investment: an empirical study based on the Chinese market. <i>Accounting and Finance</i> , 2019, 59, 2045-2071.	1.7	2
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65	Oxidase-Like Fe(II)-Single-Atom Nanozymes for the Detection of Acetylcholinesterase Activity. <i>Small</i> , 2019, 15, e1903108.	5.2	207
66	Spectroscopic and Reactivity Comparisons between Nonheme Oxoiron(IV) and Oxoiron(V) Species Bearing the Same Ancillary Ligand. <i>Journal of the American Chemical Society</i> , 2019, 141, 15078-15091.	6.6	48
67	Assessment of the intramolecular magnetic interactions in the highly saddled iron(III) porphyrin I [•] -radical cations: the change from planar to saddle conformations. <i>Dalton Transactions</i> , 2019, 48, 13820-13833.	1.6	5
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69	Evidence for Modulation of Oxygen Rebound Rate in Control of Outcome by Iron(II)- and 2-Oxoglutarate-Dependent Oxygenases. <i>Journal of the American Chemical Society</i> , 2019, 141, 15153-15165.	6.6	28
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71	Hydrogen Bond-Enabled Heterolytic and Homolytic Peroxide Activation within Nonheme Copper(II)-Alkylperoxo Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 12964-12974.	1.9	22
72	Manganese-Catalyzed Desaturation of N-Acyl Amines and Ethers. <i>ACS Catalysis</i> , 2019, 9, 9513-9517.	5.5	33
73	Properties and reactivity of 1/4-nitrido-bridged dimetal porphyrinoid complexes: how does ruthenium compare to iron?. <i>Journal of Biological Inorganic Chemistry</i> , 2019, 24, 1127-1134.	1.1	5
74	Influence of intramolecular secondary sphere hydrogen-bonding interactions on cytochrome c oxidase inspired low-spin heme-peroxo-copper complexes. <i>Chemical Science</i> , 2019, 10, 2893-2905.	3.7	20

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75	Trapping of a Highly Reactive Oxoiron(IV) Complex in the Catalytic Epoxidation of Olefins by Hydrogen Peroxide. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4012-4016.	7.2	41
76	Dioxygen activation by a dinuclear thiolate-ligated Fe(<i>ii</i>) complex. <i>Dalton Transactions</i> , 2019, 48, 379-386.	1.6	4
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82	Specific heme binding to heme regulatory motifs in iron regulatory proteins and its functional significance. <i>Journal of Inorganic Biochemistry</i> , 2019, 198, 110726.	1.5	12
83	Aromatic hydroxylation of anthracene derivatives by a chromium(<i>iii</i>)-superoxo complex via proton-coupled electron transfer. <i>Chemical Communications</i> , 2019, 55, 8286-8289.	2.2	1
84	Electrochemical C-H oxygenation and alcohol dehydrogenation involving Fe-oxo species using water as the oxygen source. <i>Chemical Science</i> , 2019, 10, 7542-7548.	3.7	51
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93	Mâ”O Bonding Beyond the Oxo Wall: Spectroscopy and Reactivity of Cobalt(III)â€Oxyl and Cobalt(III)â€Oxo Complexes. <i>Angewandte Chemie</i> , 2019, 131, 9721-9726.	1.6	13
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96	Mâ”O Bonding Beyond the Oxo Wall: Spectroscopy and Reactivity of Cobalt(III)â€Oxyl and Cobalt(III)â€Oxo Complexes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9619-9624.	7.2	56
97	Self-Assembly of Anionic Polyoxometalateâ€Organic Architectures Based on Lacunary Phosphomolybdates and Pyridyl Ligands. <i>Journal of the American Chemical Society</i> , 2019, 141, 7687-7692.	6.6	91
98	Structure and reactivity of the first-row d-block metal-superoxo complexes. <i>Dalton Transactions</i> , 2019, 48, 9469-9489.	1.6	50
99	Single-atom nanozymes. <i>Science Advances</i> , 2019, 5, eaav5490.	4.7	615
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101	Why Can Normal Palladium Catalysts Efficiently Mediate Aerobic Câ”H Hydroxylation of Arylpyridines by Intercepting Aldehyde Autoxidation? A Nascent Palladium(III)â€Peracid Intermediate Makes a Difference. <i>Inorganic Chemistry</i> , 2019, 58, 4376-4384.	1.9	7
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106	Enantioselective Arylation of Benzylic Câ”H Bonds by Copperâ€Catalyzed Radical Relay. <i>Angewandte Chemie</i> , 2019, 131, 6491-6495.	1.6	13
107	Enantioselective Arylation of Benzylic Câ”H Bonds by Copperâ€Catalyzed Radical Relay. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6425-6429.	7.2	92
108	Tuning the Geometric and Electronic Structure of Synthetic High-Valent Heme Iron(IV)-Oxo Models in the Presence of a Lewis Acid and Various Axial Ligands. <i>Journal of the American Chemical Society</i> , 2019, 141, 5942-5960.	6.6	54
109	Aerobic oxygenation catalyzed by first row transition metal complexes coordinated by tetradentate mono-carbon bridged bis-phenanthroline ligands: intra- <i>versus</i> intermolecular carbonâ€hydrogen bond activation. <i>Dalton Transactions</i> , 2019, 48, 6396-6407.	1.6	3
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130	Heme and Nonheme High-Valent Iron and Manganese Oxo Cores in Biological and Abiological Oxidation Reactions. <i>ACS Central Science</i> , 2019, 5, 13-28.	5.3	275
131	Spinâ€“State Variations of Iron(III) Complexes with Tetracarbene Macrocycles. <i>Chemistry - A European Journal</i> , 2019, 25, 3918-3929.	1.7	18
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