Woon Ju Song

List of Publications by Year
in descending order

27 papers	2,026 citations	394421 19 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	2116 citing authors

#	Article	IF	Citations
1	Nonheme FeIVO Complexes That Can Oxidize the Câ”H Bonds of Cyclohexane at Room Temperature. Journal of the American Chemical Society, 2004, 126, 472-473.	13.7	591
2	Synthesis, Characterization, and Reactivities of Manganese(V)â”Oxo Porphyrin Complexes. Journal of the American Chemical Society, 2007, 129, 1268-1277.	13.7	238
3	A designed supramolecular protein assembly with in vivo enzymatic activity. Science, 2014, 346, 1525-1528.	12.6	236
4	Oxoiron(IV) porphyrin Ï€-cation radical complexes with a chameleon behavior in cytochrome P450 model reactions. Journal of Biological Inorganic Chemistry, 2005, 10, 294-304.	2.6	153
5	Oxidizing intermediates in cytochrome P450 model reactions. Journal of Biological Inorganic Chemistry, 2004, 9, 654-660.	2.6	114
6	Interfacial metal coordination in engineered protein and peptide assemblies. Current Opinion in Chemical Biology, 2014, 19, 42-49.	6.1	83
7	Mechanistic Insight into the Aromatic Hydroxylation by High-Valent Iron(IV)-oxo Porphyrin Ï€-Cation Radical Complexes. Journal of Organic Chemistry, 2007, 72, 6301-6304.	3.2	67
8	Metals in Proteinâ€“Protein Interfaces. Annual Review of Biophysics, 2014, 43, 409-431.	10.0	63
9	Diverse protein assembly driven by metal and chelating amino acids with selectivity and tunability. Nature Communications, 2019, 10, 5545.	12.8	52
10	Mechanistic Insights into the Reversible Formation of Iodosylarene-Iron Porphyrin Complexes in the Reactions of Oxoiron(IV) Porphyrin Ï€-Cation Radicals and Iodoarenes: Equilibrium, Epoxidizing Intermediate, and Oxygen Exchange. Chemistry - A European Journal, 2006, 12, 130-137.	3.3	45
11	Insights into the Different Dioxygen Activation Pathways of Methane and Toluene Monooxygenase Hydroxylases. Journal of the American Chemical Society, 2011, 133, 7384-7397.	13.7	45
12	Emergence of metal selectivity and promiscuity in metalloenzymes. Journal of Biological Inorganic Chemistry, 2019, 24, 517-531.	2.6	40
13	Importance of Scaffold Flexibility/Rigidity in the Design and Directed Evolution of Artificial Metallo-Î²-lactamases. Journal of the American Chemical Society, 2017, 139, 16772-16779.	13.7	39
14	Parallel mechanistic studies on the counterion effect of manganese salen and porphyrin complexes on olefin epoxidation by iodosylarenes. Journal of Inorganic Biochemistry, 2005, 99, 424-431.	3.5	38
15	Characterization of a Peroxodiiron(III) Intermediate in the T201S Variant of Toluene/o-Xylene Monooxygenase Hydroxylase from Pseudomonas sp. OX1. Journal of the American Chemical Society, 2009, 131, 6074-6075.	13.7	37
16	Active Site Threonine Facilitates Proton Transfer during Dioxygen Activation at the Diiron Center of Toluene/o-Xylene Monooxygenase Hydroxylase. Journal of the American Chemical Society, 2010, 132, 13582-13585.	13.7	36
17	Multiple Roles of Component Proteins in Bacterial Multicomponent Monooxygenases: Phenol Hydroxylase and Toluene/o-Xylene Monooxygenase from Pseudomonas sp. OX1. Biochemistry, 2011, 50, 1788-1798.	2.5	30
18	Tracking a defined route for O ₂ migration in a dioxygen-activating diiron enzyme. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14795-14800.	7.1	28

#	Article	IF	Citations
19	Proteins as diverse, efficient, and evolvable scaffolds for artificial metalloenzymes. Chemical Communications, 2020, 56, 9586-9599.	4.1	28
20	Mechanistic Studies of Reactions of Peroxodiiron(III) Intermediates in T201 Variants of Toluene/o-Xylene Monooxygenase Hydroxylase. Biochemistry, 2011, 50, 5391-5399.	2.5	21
21	Molecular mechanism underlying substrate recognition of the peptide macrocyclase PsnB. Nature Chemical Biology, 2021, 17, 1123-1131.	8.0	18
22	Design of artificial metalloenzymes with multiple inorganic elements: The more the merrier. Journal of Inorganic Biochemistry, 2021, 223, 111552.	3.5	8
23	Integrative metagenomic and biochemical studies on rifamycin ADP-ribosyltransferases discovered in the sediment microbiome. Scientific Reports, 2018, 8, 12143.	3.3	7
24	Symmetry-related residues as promising hotspots for the evolution of de novo oligomeric enzymes. Chemical Science, 2021, 12, 5091-5101.	7.4	5
25	Discovery of Novel Gene Functions by Chemistry-Guided Targeted Sequence Analysis. Biochemistry, 2020, 59, 10-11.	2.5	2
26	Genomic Determinants Encode the Reactivity and Regioselectivity of Flavin-Dependent Halogenases in Bacterial Genomes and Metagenomes. MSystems, 2021, 6, e0005321.	3.8	2
27	Folding of Circularly Permuted and Split Outer Membrane Protein F via Electrostatic Interactions with Terminal Residues. Biochemistry, 2021, 60, 1787-1796.	2.5	0