

Megan L Matthews

List of Publications by Year in descending order

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25
papers

1,757
citations

430754

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docs citations

28
times ranked

1918
citing authors

#	ARTICLE	IF	CITATIONS
1	Substrate-Triggered Formation and Remarkable Stability of the C ^α -H Bond-Cleaving Chloroferryl Intermediate in the Aliphatic Halogenase, SyrB2. <i>Biochemistry</i> , 2009, 48, 4331-4343.	1.2	212
2	Substrate positioning controls the partition between halogenation and hydroxylation in the aliphatic halogenase, SyrB2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17723-17728.	3.3	206
3	Elucidation of the Fe(IV)=O intermediate in the catalytic cycle of the halogenase SyrB2. <i>Nature</i> , 2013, 499, 320-323.	13.7	192
4	Highly Selective Inhibitors of Monoacylglycerol Lipase Bearing a Reactive Group that Is Bioisosteric with Endocannabinoid Substrates. <i>Chemistry and Biology</i> , 2012, 19, 579-588.	6.2	155
5	Spectroscopic Evidence for a High-Spin Br-Fe(IV)-Oxo Intermediate in the α -Ketoglutarate-Dependent Halogenase CytC3 from <i>Streptomyces</i> . <i>Journal of the American Chemical Society</i> , 2007, 129, 13408-13409.	6.6	140
6	Direct nitration and azidation of aliphatic carbons by an iron-dependent halogenase. <i>Nature Chemical Biology</i> , 2014, 10, 209-215.	3.9	113
7	Chemical Proteomic Profiling of Human Methyltransferases. <i>Journal of the American Chemical Society</i> , 2016, 138, 13335-13343.	6.6	79
8	myo-Inositol oxygenase: a radical new pathway for O ₂ and C ^α -H activation at a nonheme diiron cluster. <i>Dalton Transactions</i> , 2009, , 905-914.	1.6	73
9	Mechanisms of 2-Oxoglutarate-Dependent Oxygenases: The Hydroxylation Paradigm and Beyond. <i>2-Oxoglutarate-Dependent Oxygenases</i> , 2015, , 95-122.	0.8	69
10	Design of activated serine-containing catalytic triads with atomic-level accuracy. <i>Nature Chemical Biology</i> , 2014, 10, 386-391.	3.9	68
11	Electronic Structure of the Ferryl Intermediate in the α -Ketoglutarate Dependent Non-Heme Iron Halogenase SyrB2: Contributions to H Atom Abstraction Reactivity. <i>Journal of the American Chemical Society</i> , 2016, 138, 5110-5122.	6.6	68
12	Chemoproteomic profiling and discovery of protein electrophiles in human cells. <i>Nature Chemistry</i> , 2017, 9, 234-243.	6.6	68
13	Metal-free class Ie ribonucleotide reductase from pathogens initiates catalysis with a tyrosine-derived dihydroxyphenylalanine radical. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10022-10027.	3.3	49
14	AurF from <i>Streptomyces thioluteus</i> and a Possible New Family of Manganese/Iron Oxygenases. <i>Biochemistry</i> , 2007, 46, 10413-10418.	1.2	37
15	A Five-coordinate Metal Center in Co(II)-substituted VanX. <i>Journal of Biological Chemistry</i> , 2005, 280, 11074-11081.	1.6	36
16	The Nonribosomal Peptide Synthetase Enzyme DdaD Tethers N ^{1,2} -Fumaramoyl-L-2,3-diaminopropionate for Fe(II)/ α -Ketoglutarate-Dependent Epoxidation by DdaC during Dapdiamide Antibiotic Biosynthesis. <i>Journal of the American Chemical Society</i> , 2010, 132, 15773-15781.	6.6	35
17	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
18	Design of Benzoxathiazin-3-one 1,1-Dioxides as a New Class of Irreversible Serine Hydrolase Inhibitors: Discovery of a Uniquely Selective PNPLA4 Inhibitor. <i>Journal of the American Chemical Society</i> , 2017, 139, 7052-7061.	6.6	25

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19	Activity-Based Hydrazine Probes for Protein Profiling of Electrophilic Functionality in Therapeutic Targets. <i>ACS Central Science</i> , 2021, 7, 1524-1534.	5.3	21
20	Vanadyl as a Stable Structural Mimic of Reactive Ferryl Intermediates in Mononuclear Nonheme-Iron Enzymes. <i>Inorganic Chemistry</i> , 2017, 56, 13382-13389.	1.9	19
21	Probing the Reaction Mechanism of the d-ala-d-ala Dipeptidase, VanX, by Using Stopped-Flow Kinetic and Rapid-Freeze Quench EPR Studies on the Co(II)-Substituted Enzyme. <i>Journal of the American Chemical Society</i> , 2006, 128, 13050-13051.	6.6	16
22	Novel approaches for the accumulation of oxygenated intermediates to multi-millimolar concentrations. <i>Coordination Chemistry Reviews</i> , 2013, 257, 234-243.	9.5	15
23	Discovery of Potent and Selective Inhibitors against Protein-Derived Electrophilic Cofactors. <i>Journal of the American Chemical Society</i> , 2022, 144, 5377-5388.	6.6	15
24	Discovery of Electrophiles and Profiling of Enzyme Cofactors. <i>Current Protocols in Chemical Biology</i> , 2020, 12, e86.	1.7	9
25	Remote Enzyme Microsurgery. <i>Science</i> , 2010, 327, 1337-1338.	6.0	3