Andrew J Mitchell

List of Publications by Year
in descending order

12	825	759233 12	1199594 12
papers	citations	h-index	g-index

12	12	12	941
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural basis for halogenation by iron- and 2-oxo-glutarate-dependent enzyme WelO5. Nature Chemical Biology, 2016, 12, 636-640.	8.0	115
2	Repeated evolution of cytochrome P450-mediated spiroketal steroid biosynthesis in plants. Nature Communications, 2019, 10, 3206.	12.8	110
3	An N-nitrosating metalloenzyme constructs the pharmacophore of streptozotocin. Nature, 2019, 566, 94-99.	27.8	108
4	Two Distinct Mechanisms for Câ€“C Desaturation by Iron(II)- and 2-(Oxo)glutarate-Dependent Oxygenases: Importance of Î±-Heteroatom Assistance. Journal of the American Chemical Society, 2018, 140, 7116-7126.	13.7	98
5	Visualizing the Reaction Cycle in an Iron(II)- and 2-(Oxo)-glutarate-Dependent Hydroxylase. Journal of the American Chemical Society, 2017, 139, 13830-13836.	13.7	97
6	Noncatalytic chalcone isomerase-fold proteins in Humulus lupulus are auxiliary components in prenylated flavonoid biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5223-E5232.	7.1	74
7	Structure-Guided Reprogramming of a Hydroxylase To Halogenate Its Small Molecule Substrate. Biochemistry, 2017, 56, 441-444.	2.5	58
8	Substrate-Triggered Formation of a Peroxo-Fe₂(III/III) Intermediate during Fatty Acid Decarboxylation by UndA. Journal of the American Chemical Society, 2019, 141, 14510-14514.	13.7	42
9	The chloroalkaloid (â^')-acutumine is biosynthesized via a Fe(II)- and 2-oxoglutarate-dependent halogenase in Menispermaceae plants. Nature Communications, 2020, 11, 1867.	12.8	37
10	Î±-Amine Desaturation of <scp>d</scp>-Arginine by the Iron(II)- and 2-(Oxo)glutarate-Dependent <scp>l</scp>-Arginine 3-Hydroxylase, VioC. Biochemistry, 2018, 57, 6479-6488.	2.5	30
11	Unleashing the Synthetic Power of Plant Oxygenases: From Mechanism to Application. Plant Physiology, 2019, 179, 813-829.	4.8	28
12	A New Microbial Pathway for Organophosphonate Degradation Catalyzed by Two Previously Misannotated Non-Heme-Iron Oxygenases. Biochemistry, 2019, 58, 1627-1647.	2.5	28