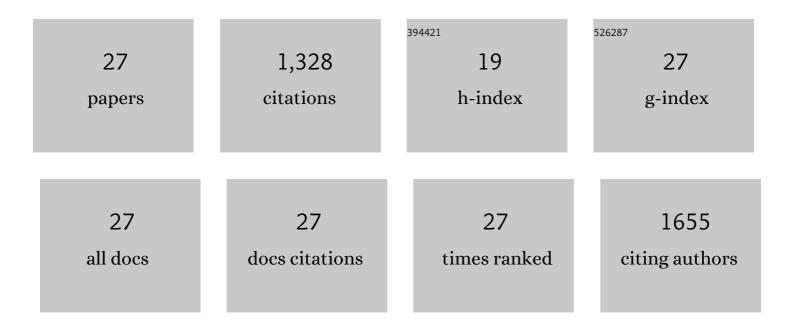
Mark S Dunstan

List of Publications by Year in descending order

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MADE S DUNSTAN

#	Article	IF	CITATIONS
1	Reductive dehalogenase structure suggests a mechanism for B12-dependent dehalogenation. Nature, 2015, 517, 513-516.	27.8	260
2	An automated Design-Build-Test-Learn pipeline for enhanced microbial production of fine chemicals. Communications Biology, 2018, 1, 66.	4.4	159
3	Structures of carboxylic acid reductase reveal domain dynamics underlying catalysis. Nature Chemical Biology, 2017, 13, 975-981.	8.0	118
4	Machine Learning of Designed Translational Control Allows Predictive Pathway Optimization in <i>Escherichia coli</i> . ACS Synthetic Biology, 2019, 8, 127-136.	3.8	88
5	Design and evolution of an enzyme with a non-canonical organocatalytic mechanism. Nature, 2019, 570, 219-223.	27.8	86
6	Adenylation Activity of Carboxylic Acid Reductases Enables the Synthesis of Amides. Angewandte Chemie - International Edition, 2017, 56, 14498-14501.	13.8	74
7	Structure and biocatalytic scope of thermophilic flavin-dependent halogenase and flavin reductase enzymes. Organic and Biomolecular Chemistry, 2016, 14, 9354-9361.	2.8	55
8	Singleâ€Biocatalyst Synthesis of Enantiopure <scp>d</scp> â€Arylalanines Exploiting an Engineered <scp>d</scp> â€Amino Acid Dehydrogenase. Advanced Synthesis and Catalysis, 2016, 358, 3298-3306.	4.3	51
9	Rapid prototyping of microbial production strains for the biomanufacture of potential materials monomers. Metabolic Engineering, 2020, 60, 168-182.	7.0	48
10	Engineering Escherichia coli towards de novo production of gatekeeper (2S)-flavanones: naringenin, pinocembrin, eriodictyol and homoeriodictyol. Synthetic Biology, 2020, 5, ysaa012.	2.2	45
11	Structure and Biocatalytic Scope of Coclaurine <i>N</i> â€Methyltransferase. Angewandte Chemie - International Edition, 2018, 57, 10600-10604.	13.8	37
12	SelProm: A Queryable and Predictive Expression Vector Selection Tool for <i>Escherichia coli</i> . ACS Synthetic Biology, 2019, 8, 1478-1483.	3.8	37
13	Highly multiplexed, fast and accurate nanopore sequencing for verification of synthetic DNA constructs and sequence libraries. Synthetic Biology, 2019, 4, ysz025.	2.2	35
14	Epoxyqueuosine Reductase Structure Suggests a Mechanism for Cobalamin-dependent tRNA Modification. Journal of Biological Chemistry, 2015, 290, 27572-27581.	3.4	34
15	biochem4j: Integrated and extensible biochemical knowledge through graph databases. PLoS ONE, 2017, 12, e0179130.	2.5	31
16	Zymophore identification enables the discovery of novel phenylalanine ammonia lyase enzymes. Scientific Reports, 2017, 7, 13691.	3.3	30
17	Adenylation Activity of Carboxylic Acid Reductases Enables the Synthesis of Amides. Angewandte Chemie, 2017, 129, 14690-14693.	2.0	25
18	PartsGenie: an integrated tool for optimizing and sharing synthetic biology parts. Bioinformatics, 2018, 34, 2327-2329.	4.1	25

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#	Article	IF	CITATIONS
19	An automated pipeline for the screening of diverse monoterpene synthase libraries. Scientific Reports, 2019, 9, 11936.	3.3	21
20	Engineering the "Missing Link―in Biosynthetic (â^')-Menthol Production: Bacterial Isopulegone Isomerase. ACS Catalysis, 2018, 8, 2012-2020.	11.2	20
21	Multifragment DNA Assembly of Biochemical Pathways via Automated Ligase Cycling Reaction. Methods in Enzymology, 2018, 608, 369-392.	1.0	11
22	A plasmid toolset for CRISPRâ€mediated genome editing and CRISPRi gene regulation in <i>Escherichia coli</i> . Microbial Biotechnology, 2021, 14, 1120-1129.	4.2	10
23	SYNBIOCHEM–a SynBio foundry for the biosynthesis and sustainable production of fine and speciality chemicals. Biochemical Society Transactions, 2016, 44, 675-677.	3.4	7
24	Ribosomal Protein L11 Selectively Stabilizes a Tertiary Structure of the GTPase Center rRNA Domain. Journal of Molecular Biology, 2020, 432, 991-1007.	4.2	7
25	Structure and Biocatalytic Scope of Coclaurine N â€Methyltransferase. Angewandte Chemie, 2018, 130, 10760-10764.	2.0	6
26	Structures of the methyltransferase component of <i>Desulfitobacterium hafniense</i> DCB-2 <i>O</i> -demethylase shed light on methyltetrahydrofolate formation. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1900-1908.	2.5	5
27	Prototyping of microbial chassis for the biomanufacturing of high-value chemical targets. Biochemical Society Transactions, 2021, 49, 1055-1063.	3.4	3