

David K Romney

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

959
citations

623734

14
h-index

996975

15
g-index

18
all docs

18
docs citations

18
times ranked

1157
citing authors

#	ARTICLE	IF	CITATIONS
1	Total synthesis and isolation of citrinalin and cyclopiamine congeners. <i>Nature</i> , 2014, 509, 318-324.	27.8	140
2	Directed evolution of the tryptophan synthase $\hat{\beta}$ -subunit for stand-alone function recapitulates allosteric activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14599-14604.	7.1	127
3	Enantioselective Total Synthesis of Nigelladine A via Late-Stage C-H Oxidation Enabled by an Engineered P450 Enzyme. <i>Journal of the American Chemical Society</i> , 2017, 139, 10196-10199.	13.7	98
4	Unlocking Reactivity of TrpB: A General Biocatalytic Platform for Synthesis of Tryptophan Analogues. <i>Journal of the American Chemical Society</i> , 2017, 139, 10769-10776.	13.7	90
5	Chemistry Takes a Bath: Reactions in Aqueous Media. <i>Journal of Organic Chemistry</i> , 2018, 83, 7319-7322.	3.2	90
6	Synthesis of $\hat{\beta}$ -Branched Tryptophan Analogues Using an Engineered Subunit of Tryptophan Synthase. <i>Journal of the American Chemical Society</i> , 2016, 138, 8388-8391.	13.7	73
7	A Panel of TrpB Biocatalysts Derived from Tryptophan Synthase through the Transfer of Mutations that Mimic Allosteric Activation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11577-11581.	13.8	59
8	Catalyst Control over Regio- and Enantioselectivity in Baeyer-Villiger Oxidations of Functionalized Ketones. <i>Journal of the American Chemical Society</i> , 2014, 136, 14019-14022.	13.7	58
9	Improved Synthesis of 4-Cyanotryptophan and Other Tryptophan Analogues in Aqueous Solvent Using Variants of TrpB from <i>Thermotoga maritima</i> . <i>Journal of Organic Chemistry</i> , 2018, 83, 7447-7452.	3.2	54
10	A Peptide-Embedded Trifluoromethyl Ketone Catalyst for Enantioselective Epoxidation. <i>Organic Letters</i> , 2012, 14, 1138-1141.	4.6	50
11	Aspartyl Oxidation Catalysts That Dial In Functional Group Selectivity, along with Regio- and Stereoselectivity. <i>ACS Central Science</i> , 2016, 2, 733-739.	11.3	35
12	A Synergistic Combinatorial and Chiroptical Study of Peptide Catalysts for Asymmetric Baeyer-Villiger Oxidation. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 2301-2309.	4.3	34
13	Nitroalkanes as Versatile Nucleophiles for Enzymatic Synthesis of Noncanonical Amino Acids. <i>ACS Catalysis</i> , 2019, 9, 8726-8730.	11.2	31
14	A Panel of TrpB Biocatalysts Derived from Tryptophan Synthase through the Transfer of Mutations that Mimic Allosteric Activation. <i>Angewandte Chemie</i> , 2016, 128, 11749-11753.	2.0	14
15	Climbing Jacob's ladder. <i>Science</i> , 2015, 347, 829-829.	12.6	3