

Alison R H Narayan

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,744
citations

304743

22
h-index

289244

40
g-index

51
all docs

51
docs citations

51
times ranked

1803
citing authors

#	ARTICLE	IF	CITATIONS
1	Design principles for site-selective hydroxylation by a Rieske oxygenase. <i>Nature Communications</i> , 2022, 13, 255.	12.8	15
2	Biocatalytic oxidative cross-coupling reactions for biaryl bond formation. <i>Nature</i> , 2022, 603, 79-85.	27.8	67
3	The Transformative Power of Biocatalysis in Convergent Synthesis. <i>Journal of the American Chemical Society</i> , 2022, 144, 5214-5225.	13.7	23
4	Structural Basis for Control of Methylation Extent in Polyketide Synthase Metal-Dependent <i>C</i> -Methyltransferases. <i>ACS Chemical Biology</i> , 2022, 17, 2088-2098.	3.4	2
5	Chemoenzymatic Total Synthesis of Natural Products. <i>Accounts of Chemical Research</i> , 2021, 54, 1374-1384.	15.6	48
6	State-of-the-Art Biocatalysis. <i>ACS Central Science</i> , 2021, 7, 1105-1116.	11.3	59
7	Synthetic Utility of One-Pot Chemoenzymatic Reaction Sequences. <i>Synlett</i> , 2020, 31, 230-236.	1.8	11
8	Scalable biocatalytic <i>C</i> -H oxyfunctionalization reactions. <i>Chemical Society Reviews</i> , 2020, 49, 8137-8155.	38.1	105
9	Broadening the scope of biocatalytic <i>C</i> -C bond formation. <i>Nature Reviews Chemistry</i> , 2020, 4, 334-346.	30.2	71
10	Structural basis for divergent <i>C</i> -H hydroxylation selectivity in two Rieske oxygenases. <i>Nature Communications</i> , 2020, 11, 2991.	12.8	34
11	Biocatalytic, Stereoselective Deuteration of α -Amino Acids and Methyl Esters. <i>ACS Catalysis</i> , 2020, 10, 7413-7418.	11.2	29
12	Oxidative Dearomatization by Flavin-Dependent Monooxygenase. <i>Trends in Chemistry</i> , 2020, 2, 270-271.	8.5	1
13	Radial Scope: A New Visualization Tool for Structure-Data Relationships. <i>Trends in Chemistry</i> , 2020, 2, 587-589.	8.5	2
14	Substrate Promiscuity of a Paralytic Shellfish Toxin Amidinotransferase. <i>ACS Chemical Biology</i> , 2020, 15, 626-631.	3.4	16
15	The voltage-gated sodium channel inhibitor, 4,9-anhydrotetrodotoxin, blocks human Nav1.1 in addition to Nav1.6. <i>Neuroscience Letters</i> , 2020, 724, 134853.	2.1	14
16	Photocatalytic Oxidative Dearomatization of Orcinaldehyde Derivatives. <i>Organic Letters</i> , 2020, 22, 3712-3716.	4.6	8
17	Stereodivergent, Chemoenzymatic Synthesis of Azaphilone Natural Products. <i>Journal of the American Chemical Society</i> , 2019, 141, 18551-18559.	13.7	37
18	Frontiers in Biocatalysis: Profiling Function across Sequence Space. <i>ACS Central Science</i> , 2019, 5, 1747-1749.	11.3	14

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19	Hydroxyl Radical-Coupled Electron-Transfer Mechanism of Flavin-Dependent Hydroxylases. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8065-8073.	2.6	12
20	Enzymes trapped and zapped for use outside cells. <i>Nature</i> , 2019, 567, 317-318.	27.8	2
21	Positioning-Group-Enabled Biocatalytic Oxidative Dearomatization. <i>ACS Central Science</i> , 2019, 5, 1010-1016.	11.3	14
22	Biocatalytic Synthesis of $\hat{\pm}$ -Amino Ketones. <i>Synlett</i> , 2019, 30, 1269-1274.	1.8	18
23	Structural Basis for Selectivity in Flavin-Dependent Monooxygenase-Catalyzed Oxidative Dearomatization. <i>ACS Catalysis</i> , 2019, 9, 3633-3640.	11.2	28
24	Charting a course for chemistry. <i>Nature Chemistry</i> , 2019, 11, 286-294.	13.6	18
25	Biocatalytic Detoxification of Paralytic Shellfish Toxins. <i>ACS Chemical Biology</i> , 2019, 14, 941-948.	3.4	39
26	Natural Voltage-gated Sodium Channel Ligands: Biosynthesis and Biology. <i>ChemBioChem</i> , 2019, 20, 1231-1241.	2.6	8
27	Chemoenzymatic <i>o</i> -Quinone Methide Formation. <i>Journal of the American Chemical Society</i> , 2019, 141, 20269-20277.	13.7	38
28	Flavin-dependent biocatalysts in synthesis. <i>Tetrahedron</i> , 2019, 75, 1115-1121.	1.9	31
29	Whole-cell biocatalysis platform for gram-scale oxidative dearomatization of phenols. <i>Chemical Biology and Drug Design</i> , 2019, 93, 1207-1213.	3.2	11
30	Chemistry of a Unique Polyketide-like Synthase. <i>Journal of the American Chemical Society</i> , 2018, 140, 2430-2433.	13.7	55
31	Biocatalytic site- and enantioselective oxidative dearomatization of phenols. <i>Nature Chemistry</i> , 2018, 10, 119-125.	13.6	104
32	C-H Hydroxylation in Paralytic Shellfish Toxin Biosynthesis. <i>Journal of the American Chemical Society</i> , 2018, 140, 11863-11869.	13.7	51
33	Synthesis of Diverse 11- and 12-Membered Macrolactones from a Common Linear Substrate Using a Single Biocatalyst. <i>ACS Central Science</i> , 2017, 3, 1304-1310.	11.3	21
34	Enzymatic hydroxylation of an unactivated methylene C-H bond guided by molecular dynamics simulations. <i>Nature Chemistry</i> , 2015, 7, 653-660.	13.6	100
35	Structure of a modular polyketide synthase. <i>Nature</i> , 2014, 510, 512-517.	27.8	269
36	Structural rearrangements of a polyketide synthase module during its catalytic cycle. <i>Nature</i> , 2014, 510, 560-564.	27.8	168

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37	Directing Group-Controlled Regioselectivity in an Enzymatic C-H Bond Oxygenation. <i>Journal of the American Chemical Society</i> , 2014, 136, 4901-4904.	13.7	75
38	Protic-Solvent-Mediated Cycloisomerization of Quinoline and Isoquinoline Propargylic Alcohols: Syntheses of (±)-Demethoxyerythratidinone and (±)-Cocculidine. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11129-11133.	13.8	54
39	Re-Engineering Nature's Catalysts. <i>Science</i> , 2013, 339, 283-284.	12.6	16
40	Biocatalytic Synthesis of Pikromycin, Methymycin, Neomethymycin, Novamethymycin, and Ketomethymycin. <i>Journal of the American Chemical Society</i> , 2013, 135, 11232-11238.	13.7	50