

Hans Renata

List of Publications by Year in descending order

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45
papers

2,615
citations

218592

26
h-index

223716

46
g-index

65
all docs

65
docs citations

65
times ranked

2296
citing authors

#	ARTICLE	IF	CITATIONS
1	Expanding the Enzyme Universe: Accessing Non-Natural Reactions by Mechanism-Guided Directed Evolution. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3351-3367.	7.2	421
2	Enzymatic assembly of carbon-carbon bonds via iron-catalysed sp ³ C-H functionalization. <i>Nature</i> , 2019, 565, 67-72.	13.7	233
3	Improved Cyclopropanation Activity of Histidine-Ligated Cytochrome P450 Enables the Enantioselective Formal Synthesis of Levomilnacipran. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6810-6813.	7.2	171
4	Cytochrome P450-catalyzed insertion of carbenoids into N-H bonds. <i>Chemical Science</i> , 2014, 5, 598-601.	3.7	160
5	Strategic Redox Relay Enables A Scalable Synthesis of Ouabagenin, A Bioactive Cardenolide. <i>Science</i> , 2013, 339, 59-63.	6.0	158
6	Development of a Concise Synthesis of Ouabagenin and Hydroxylated Corticosteroid Analogues. <i>Journal of the American Chemical Society</i> , 2015, 137, 1330-1340.	6.6	105
7	Remote C-H Hydroxylation by an Î±-Ketoglutarate-Dependent Dioxygenase Enables Efficient Chemoenzymatic Synthesis of Manzacidin C and Proline Analogs. <i>Journal of the American Chemical Society</i> , 2018, 140, 1165-1169.	6.6	96
8	Divergent synthesis of complex diterpenes through a hybrid oxidative approach. <i>Science</i> , 2020, 369, 799-806.	6.0	89
9	Total Synthesis of Tambromycin by Combining Chemocatalytic and Biocatalytic C-H Functionalization. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5037-5041.	7.2	75
10	Highly Stereoselective Biocatalytic Synthesis of Key Cyclopropane Intermediate to Ticagrelor. <i>ACS Catalysis</i> , 2016, 6, 7810-7813.	5.5	66
11	Merging chemoenzymatic and radical-based retrosynthetic logic for rapid and modular synthesis of oxidized meroterpenoids. <i>Nature Chemistry</i> , 2020, 12, 173-179.	6.6	66
12	P450-catalyzed asymmetric cyclopropanation of electron-deficient olefins under aerobic conditions. <i>Catalysis Science and Technology</i> , 2014, 4, 3640-3643.	2.1	59
13	Identification of Mechanism-Based Inactivation in P450-Catalyzed Cyclopropanation Facilitates Engineering of Improved Enzymes. <i>Journal of the American Chemical Society</i> , 2016, 138, 12527-12533.	6.6	58
14	Directed Evolution of a Bright Near-Infrared Fluorescent Rhodopsin Using a Synthetic Chromophore. <i>Cell Chemical Biology</i> , 2017, 24, 415-425.	2.5	55
15	Asymmetric Chemoenzymatic Synthesis of (âˆ-)Podophyllotoxin and Related Aryltetralin Lignans. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11657-11660.	7.2	54
16	Harnessing the biocatalytic potential of iron- and Î±-ketoglutarate-dependent dioxygenases in natural product total synthesis. <i>Natural Product Reports</i> , 2020, 37, 1065-1079.	5.2	47
17	Recent advances in the chemoenzymatic synthesis of bioactive natural products. <i>Current Opinion in Chemical Biology</i> , 2020, 55, 111-118.	2.8	47
18	Applications of Oxygenases in the Chemoenzymatic Total Synthesis of Complex Natural Products. <i>Biochemistry</i> , 2018, 57, 403-412.	1.2	45

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19	Enzymatic C-H functionalizations for natural product synthesis. <i>Current Opinion in Chemical Biology</i> , 2019, 49, 25-32.	2.8	43
20	Evolution of Biocatalytic and Chemocatalytic C-H Functionalization Strategy in the Synthesis of Manzacidin C. <i>Journal of Organic Chemistry</i> , 2018, 83, 7407-7415.	1.7	42
21	Reinvigorating the Chiral Pool: Chemoenzymatic Approaches to Complex Peptides and Terpenoids. <i>Accounts of Chemical Research</i> , 2021, 54, 1143-1156.	7.6	37
22	Identification of a lysine 4-hydroxylase from the glidobactin biosynthesis and evaluation of its biocatalytic potential. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1736-1739.	1.5	35
23	Cytochrome P450-Catalyzed Hydroxylation Initiating Ether Formation in Platensimycin Biosynthesis. <i>Journal of the American Chemical Society</i> , 2018, 140, 12349-12353.	6.6	31
24	Characterization of a Citrulline 4-Hydroxylase from Nonribosomal Peptide GE81112 Biosynthesis and Engineering of Its Substrate Specificity for the Chemoenzymatic Synthesis of Enduracididine. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18854-18858.	7.2	31
25	Cryptic and Stereospecific Hydroxylation, Oxidation, and Reduction in Platensimycin and Platencin Biosynthesis. <i>Journal of the American Chemical Society</i> , 2019, 141, 4043-4050.	6.6	25
26	A Chiral-Pool-Based Strategy to Access <i>trans-syn</i> -Fused Drimane Meroterpenoids: Chemoenzymatic Total Syntheses of Polysin, <i>N</i> -Acetyl-polyveoline and the Chrodrimanins. <i>Journal of the American Chemical Society</i> , 2021, 143, 18280-18286.	6.6	25
27	Modular Chemoenzymatic Synthesis of GE81112 B1 and Related Analogues Enables Elucidation of Its Key Pharmacophores. <i>Journal of the American Chemical Society</i> , 2021, 143, 1673-1679.	6.6	21
28	Recent Progress and Developments in Chemoenzymatic and Biocatalytic Dynamic Kinetic Resolution. <i>Organic Process Research and Development</i> , 2022, 26, 1925-1943.	1.3	21
29	Concise Chemoenzymatic Total Synthesis and Identification of Cellular Targets of Cepafungin I. <i>Cell Chemical Biology</i> , 2020, 27, 1318-1326.e18.	2.5	20
30	Stereoselective Synthesis of β -Branched Aromatic α -Amino Acids by Biocatalytic Dynamic Kinetic Resolution**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17680-17685.	7.2	16
31	Total Synthesis of Tambromycin by Combining Chemocatalytic and Biocatalytic C-H Functionalization. <i>Angewandte Chemie</i> , 2018, 130, 5131-5135.	1.6	14
32	A one-pot chemoenzymatic synthesis of (2S, 4R)-4-methylproline enables the first total synthesis of antiviral lipopeptide cavinafungin B. <i>Tetrahedron</i> , 2018, 74, 6469-6473.	1.0	14
33	Remote B-Ring Oxidation of Sclareol with an Engineered P450 Facilitates Divergent Access to Complex Terpenoids. <i>Journal of the American Chemical Society</i> , 2022, 144, 7616-7621.	6.6	14
34	Exploration of Iron- and α -Ketoglutarate-Dependent Dioxygenases as Practical Biocatalysts in Natural Product Synthesis. <i>Synlett</i> , 2021, 32, 775-784.	1.0	13
35	Asymmetric Chemoenzymatic Synthesis of β -Podophyllotoxin and Related Aryltetralin Lignans. <i>Angewandte Chemie</i> , 2019, 131, 11783-11786.	1.6	10
36	Synthetic utility of oxygenases in site-selective terpenoid functionalization. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2021, 48, .	1.4	9

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37	Regiodivergent biocatalytic hydroxylation of L-Glutamine facilitated by characterization of Non-Heme dioxxygenases from Non-Ribosomal peptide biosyntheses. <i>Tetrahedron</i> , 2021, 90, 132190.	1.0	9
38	Concise Chemoenzymatic Synthesis of Fasamycin A. <i>Journal of Organic Chemistry</i> , 2021, 86, 11206-11211.	1.7	8
39	Efficient chemoenzymatic synthesis of (2S,3R)-3-hydroxy-3-methylproline, a key fragment in polyoxypeptin A and FR225659. <i>Tetrahedron</i> , 2019, 75, 3253-3257.	1.0	7
40	Characterization of a Citrulline 4 α -Hydroxylase from Nonribosomal Peptide GE81112 Biosynthesis and Engineering of Its Substrate Specificity for the Chemoenzymatic Synthesis of Enduracididine. <i>Angewandte Chemie</i> , 2019, 131, 19030-19034.	1.6	3
41	Practical Enzymatic Production of Carbocycles. <i>Chemistry - A European Journal</i> , 2021, 27, 11773-11794.	1.7	3
42	Stereoselective Synthesis of β -Branched Aromatic α -Amino Acids by Biocatalytic Dynamic Kinetic Resolution**. <i>Angewandte Chemie</i> , 2021, 133, 17821-17826.	1.6	2
43	A dual C-H functionalization strategy for the total synthesis of tambromycin. <i>Strategies and Tactics in Organic Synthesis</i> , 2019, 14, 187-206.	0.1	1
44	Biocatalytic Oxidative Cyclization with 2-ODD-PH. <i>Trends in Chemistry</i> , 2020, 2, 954-955.	4.4	0
45	Frontispiece: Practical Enzymatic Production of Carbocycles. <i>Chemistry - A European Journal</i> , 2021, 27, .	1.7	0