

Jeffrey D Rudolf

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8482878/publications.pdf>

Version: 2024-02-01

45
papers

1,607
citations

304368

22
h-index

315357

38
g-index

51
all docs

51
docs citations

51
times ranked

1554
citing authors

#	ARTICLE	IF	CITATIONS
1	Cytochromes P450 for natural product biosynthesis in <i>Streptomyces</i> : sequence, structure, and function. <i>Natural Product Reports</i> , 2017, 34, 1141-1172.	5.2	147
2	The Natural Products Atlas 2.0: a database of microbially-derived natural products. <i>Nucleic Acids Research</i> , 2022, 50, D1317-D1323.	6.5	112
3	Strain Prioritization and Genome Mining for Eneidyne Natural Products. <i>MBio</i> , 2016, 7, .	1.8	89
4	Divergent synthesis of complex diterpenes through a hybrid oxidative approach. <i>Science</i> , 2020, 369, 799-806.	6.0	89
5	Terpene synthases in disguise: enzymology, structure, and opportunities of non-canonical terpene synthases. <i>Natural Product Reports</i> , 2020, 37, 425-463.	5.2	85
6	Strain Prioritization for Natural Product Discovery by a High-Throughput Real-Time PCR Method. <i>Journal of Natural Products</i> , 2014, 77, 2296-2303.	1.5	75
7	Bacterial terpenome. <i>Natural Product Reports</i> , 2021, 38, 905-980.	5.2	74
8	Mechanisms of Self-Resistance in the Platensimycin- and Platencin-Producing <i>Streptomyces platensis</i> MA7327 and MA7339 Strains. <i>Chemistry and Biology</i> , 2014, 21, 389-397.	6.2	65
9	Eneidyne: Exploration of microbial genomics to discover new anticancer drug leads. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 9-15.	1.0	55
10	Genome neighborhood network reveals insights into enediene biosynthesis and facilitates prediction and prioritization for discovery. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 261-276.	1.4	55
11	Structure of the <i>ent</i> -Copalyl Diphosphate Synthase PtmT2 from <i>Streptomyces platensis</i> CB00739, a Bacterial Type II Diterpene Synthase. <i>Journal of the American Chemical Society</i> , 2016, 138, 10905-10915.	6.6	50
12	A genetically amenable platensimycin- and platencin-overproducer as a platform for biosynthetic explorations: a showcase of PtmO4, a long-chain acyl-CoA dehydrogenase. <i>Molecular BioSystems</i> , 2015, 11, 2717-2726.	2.9	48
13	Biosynthetic Potential-Based Strain Prioritization for Natural Product Discovery: A Showcase for Diterpenoid-Producing Actinomycetes. <i>Journal of Natural Products</i> , 2014, 77, 377-387.	1.5	45
14	Platensimycin and platencin: Inspirations for chemistry, biology, enzymology, and medicine. <i>Biochemical Pharmacology</i> , 2017, 133, 139-151.	2.0	42
15	Angucyclines and Angucyclinones from <i>Streptomyces</i> sp. CB01913 Featuring C-Ring Cleavage and Expansion. <i>Journal of Natural Products</i> , 2015, 78, 2471-2480.	1.5	41
16	Multisite Prenylation of 4-Substituted Tryptophans by Dimethylallyltryptophan Synthase. <i>Journal of the American Chemical Society</i> , 2013, 135, 1895-1902.	6.6	39
17	Tyrosine <i>O</i> -Prenyltransferase SirD Catalyzes <i>S</i> -, <i>C</i> -, and <i>N</i> -Prenylations on Tyrosine and Tryptophan Derivatives. <i>ACS Chemical Biology</i> , 2013, 8, 2707-2714.	1.6	37
18	Biosynthetic Origin of the Ether Ring in Platensimycin. <i>Journal of the American Chemical Society</i> , 2016, 138, 16711-16721.	6.6	37

#	ARTICLE	IF	CITATIONS
19	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
20	Biosynthesis of thiocarboxylic acid-containing natural products. <i>Nature Communications</i> , 2018, 9, 2362.	5.8	26
21	Antibacterial sulfur-containing platensimycin and platencin congeners from <i>Streptomyces platensis</i> SB12029. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 6348-6353.	1.4	25
22	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
23	Characterization and Crystal Structure of a Nonheme Diiron Monooxygenase Involved in Platensimycin and Platencin Biosynthesis. <i>Journal of the American Chemical Society</i> , 2019, 141, 12406-12412.	6.6	23
24	Resistance to Eneidyne Antitumor Antibiotics by Sequestration. <i>Cell Chemical Biology</i> , 2018, 25, 1075-1085.e4.	2.5	21
25	Natural separation of the acyl-CoA ligase reaction results in a non-adenylating enzyme. <i>Nature Chemical Biology</i> , 2018, 14, 730-737.	3.9	21
26	Evaluation of Platensimycin and Platensimycin-Inspired Thioether Analogues against Methicillin-Resistant <i>Staphylococcus aureus</i> in Topical and Systemic Infection Mouse Models. <i>Molecular Pharmaceutics</i> , 2019, 16, 3065-3071.	2.3	20
27	Discovery and Biosynthesis of a Structurally Dynamic Antibacterial Diterpenoid. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14163-14170.	7.2	20
28	In vivo instability of platensimycin and platencin: Synthesis and biological evaluation of urea- and carbamate-platensimycin. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1990-1996.	1.4	19
29	Biochemical and Structural Characterization of TtnD, a Prenylated FMN-Dependent Decarboxylase from the Tautomycetin Biosynthetic Pathway. <i>ACS Chemical Biology</i> , 2018, 13, 2728-2738.	1.6	19
30	Crystal Structures of SgcE6 and SgcC, the Two-Component Monooxygenase That Catalyzes Hydroxylation of a Carrier Protein-Tethered Substrate during the Biosynthesis of the Eneidyne Antitumor Antibiotic C-1027 in <i>Streptomyces globisporus</i> . <i>Biochemistry</i> , 2016, 55, 5142-5154.	1.2	18
31	Discovery of the Tiansilactone Antibiotics by Genome Mining of Atypical Bacterial Type II Diterpene Synthases. <i>ChemBioChem</i> , 2018, 19, 1727-1733.	1.3	18
32	A Mutasynthetic Library of Platensimycin and Platencin Analogues. <i>Organic Letters</i> , 2016, 18, 4606-4609.	2.4	16
33	Eneidyne Polyketide Synthases Stereoselectively Reduce the β^2 -Ketoacyl Intermediates to β^2 -Hydroxyacyl Intermediates in Eneidyne Core Biosynthesis. <i>Organic Letters</i> , 2014, 16, 3958-3961.	2.4	15
34	Mechanistic Insights into the Formation of the 6,10-Bicyclic Eunicellane Skeleton by the Bacterial Diterpene Synthase Bnd4. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23159-23163.	7.2	15
35	Bacterial Diterpene Synthases Prenylate Small Molecules. <i>ACS Catalysis</i> , 2021, 11, 5906-5915.	5.5	13
36	Germicidins H-J from <i>Streptomyces</i> sp. CBO0361. <i>Journal of Antibiotics</i> , 2017, 70, 200-203.	1.0	11

#	ARTICLE	IF	CITATIONS
37	Crystal structure of SgcJ, an NTF2-like superfamily protein involved in biosynthesis of the nine-membered enediyne antitumor antibiotic C-1027. <i>Journal of Antibiotics</i> , 2016, 69, 731-740.	1.0	10
38	Crystal Structure of Thioesterase SgcE10 Supporting Common Polyene Intermediates in 9- and 10-Membered Enediyne Core Biosynthesis. <i>ACS Omega</i> , 2017, 2, 5159-5169.	1.6	10
39	Structural Insights into the Free-Standing Condensation Enzyme SgcC5 Catalyzing Ester-Bond Formation in the Biosynthesis of the Enediyne Antitumor Antibiotic C-1027. <i>Biochemistry</i> , 2018, 57, 3278-3288.	1.2	10
40	BlmB and TlmB Provide Resistance to the Bleomycin Family of Antitumor Antibiotics by <i>N</i> -Acetylating Metal-Free Bleomycin, Tallysomycin, Phleomycin, and Zorbamycin. <i>Biochemistry</i> , 2014, 53, 6901-6909.	1.2	9
41	Crystal Structure of the Zorbamycin-Binding Protein ZbmA, the Primary Self-Resistance Element in <i>Streptomyces flavoviridis</i> ATCC21892. <i>Biochemistry</i> , 2015, 54, 6842-6851.	1.2	9
42	Nutritional control of antibiotic production by <i>Streptomyces platensis</i> MA7327: importance of l-aspartic acid. <i>Journal of Antibiotics</i> , 2017, 70, 828-831.	1.0	6
43	P450-Catalyzed Tailoring Steps in Leinamycin Biosynthesis Featuring Regio- and Stereoselective Hydroxylations and Substrate Promiscuities. <i>Biochemistry</i> , 2018, 57, 5005-5013.	1.2	5
44	Entdeckung und Biosynthese eines strukturdynamischen antibakteriellen Diterpenoids. <i>Angewandte Chemie</i> , 2021, 133, 14282-14289.	1.6	2
45	Mechanistic Insights into the Formation of the 6,10-Bicyclic Eunicellane Skeleton by the Bacterial Diterpene Synthase Bnd4. <i>Angewandte Chemie</i> , 2021, 133, 23343.	1.6	0