Jeffrey D Rudolf

List of Publications by Year
in descending order

45	1,607	304368	315357
papers	citations	22 h-index	38 g-index

51	51	51	1554
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Natural Products Atlas 2.0: a database of microbially-derived natural products. Nucleic Acids Research, 2022, 50, D1317-D1323.	6.5	112
2	Bacterial terpenome. Natural Product Reports, 2021, 38, 905-980.	5.2	74
3	Bacterial Diterpene Synthases Prenylate Small Molecules. ACS Catalysis, 2021, 11, 5906-5915.	5.5	13
4	Discovery and Biosynthesis of a Structurally Dynamic Antibacterial Diterpenoid. Angewandte Chemie - International Edition, 2021, 60, 14163-14170.	7.2	20
5	Entdeckung und Biosynthese eines strukturdynamischen antibakteriellen Diterpenoids. Angewandte Chemie, 2021, 133, 14282-14289.	1.6	2
6	Mechanistic Insights into the Formation of the 6,10â€Bicyclic Eunicellane Skeleton by the Bacterial Diterpene Synthase Bnd4. Angewandte Chemie - International Edition, 2021, 60, 23159-23163.	7.2	15
7	Mechanistic Insights into the Formation of the 6,10â€Bicyclic Eunicellane Skeleton by the Bacterial Diterpene Synthase Bnd4. Angewandte Chemie, 2021, 133, 23343.	1.6	0
8	Terpene synthases in disguise: enzymology, structure, and opportunities of non-canonical terpene synthases. Natural Product Reports, 2020, 37, 425-463.	5.2	85
9	Divergent synthesis of complex diterpenes through a hybrid oxidative approach. Science, 2020, 369, 799-806.	6.0	89
10	Characterization and Crystal Structure of a Nonheme Diiron Monooxygenase Involved in Platensimycin and Platencin Biosynthesis. Journal of the American Chemical Society, 2019, 141, 12406-12412.	6.6	23
11	Evaluation of Platensimycin and Platensimycin-Inspired Thioether Analogues against Methicillin-Resistant Staphylococcus aureus in Topical and Systemic Infection Mouse Models. Molecular Pharmaceutics, 2019, 16, 3065-3071.	2.3	20
12	Cryptic and Stereospecific Hydroxylation, Oxidation, and Reduction in Platensimycin and Platencin Biosynthesis. Journal of the American Chemical Society, 2019, 141, 4043-4050.	6.6	25
13	Structural Insights into the Free-Standing Condensation Enzyme SgcC5 Catalyzing Ester-Bond Formation in the Biosynthesis of the Enediyne Antitumor Antibiotic C-1027. Biochemistry, 2018, 57, 3278-3288.	1.2	10
14	Cytochrome P450-Catalyzed Hydroxylation Initiating Ether Formation in Platensimycin Biosynthesis. Journal of the American Chemical Society, 2018, 140, 12349-12353.	6.6	31
15	Biochemical and Structural Characterization of TtnD, a Prenylated FMN-Dependent Decarboxylase from the Tautomycetin Biosynthetic Pathway. ACS Chemical Biology, 2018, 13, 2728-2738.	1.6	19
16	Discovery of the Tiancilactone Antibiotics by Genome Mining of Atypical Bacterial Typeâ€…II Diterpene Synthases. ChemBioChem, 2018, 19, 1727-1733.	1.3	18
17	Resistance to Enediyne Antitumor Antibiotics by Sequestration. Cell Chemical Biology, 2018, 25, 1075-1085.e4.	2.5	21
18	P450-Catalyzed Tailoring Steps in Leinamycin Biosynthesis Featuring Regio- and Stereoselective Hydroxylations and Substrate Promiscuities. Biochemistry, 2018, 57, 5005-5013.	1.2	5

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19	Natural separation of the acyl-CoA ligase reaction results in a non-adenylating enzyme. Nature Chemical Biology, 2018, 14, 730-737.	3.9	21
20	Biosynthesis of thiocarboxylic acid-containing natural products. Nature Communications, 2018, 9, 2362.	5.8	26
21	In vivo instability of platensimycin and platencin: Synthesis and biological evaluation of urea- and carbamate-platensimycin. Bioorganic and Medicinal Chemistry, 2017, 25, 1990-1996.	1.4	19
22	Nutritional control of antibiotic production by Streptomyces platensis MA7327: importance of l-aspartic acid. Journal of Antibiotics, 2017, 70, 828-831.	1.0	6
23	Crystal Structure of Thioesterase SgcE10 Supporting Common Polyene Intermediates in 9- and 10-Membered Enediyne Core Biosynthesis. ACS Omega, 2017, 2, 5159-5169.	1.6	10
24	Cytochromes P450 for natural product biosynthesis in Streptomyces: sequence, structure, and function. Natural Product Reports, 2017, 34, 1141-1172.	5.2	147
25	Germicidins Hâ€“J from Streptomyces sp. CB00361. Journal of Antibiotics, 2017, 70, 200-203.	1.0	11
26	Platensimycin and platencin: Inspirations for chemistry, biology, enzymology, and medicine. Biochemical Pharmacology, 2017, 133, 139-151.	2.0	42
27	Biosynthetic Origin of the Ether Ring in Platensimycin. Journal of the American Chemical Society, 2016, 138, 16711-16721.	6.6	37
28	Strain Prioritization and Genome Mining for Enediyne Natural Products. MBio, 2016, 7, .	1.8	89
29	Antibacterial sulfur-containing platensimycin and platencin congeners from Streptomyces platensis SB12029. Bioorganic and Medicinal Chemistry, 2016, 24, 6348-6353.	1.4	25
30	A Mutasynthetic Library of Platensimycin and Platencin Analogues. Organic Letters, 2016, 18, 4606-4609.	2.4	16
31	Structure of the ent-Copalyl Diphosphate Synthase PtmT2 from Streptomyces platensis CB00739, a Bacterial Type II Diterpene Synthase. Journal of the American Chemical Society, 2016, 138, 10905-10915.	6.6	50
32	Crystal Structures of SgcE6 and SgcC, the Two-Component Monooxygenase That Catalyzes Hydroxylation of a Carrier Protein-Tethered Substrate during the Biosynthesis of the Enediyne Antitumor Antibiotic C-1027 in Streptomyces globisporus. Biochemistry, 2016, 55, 5142-5154.	1.2	18
33	Crystal structure of SgcJ, an NTF2-like superfamily protein involved in biosynthesis of the nine-membered enediyne antitumor antibiotic C-1027. Journal of Antibiotics, 2016, 69, 731-740.	1.0	10
34	Genome neighborhood network reveals insights into enediyne biosynthesis and facilitates prediction and prioritization for discovery. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 261-276.	1.4	55
35	Crystal Structure of the Zorbamycin-Binding Protein ZbmA, the Primary Self-Resistance Element in Streptomyces flavoviridis ATCC21892. Biochemistry, 2015, 54, 6842-6851.	1.2	9
36	A genetically amenable platensimycin- and platencin-overproducer as a platform for biosynthetic explorations: a showcase of PtmO4, a long-chain acyl-CoA dehydrogenase. Molecular BioSystems, 2015, 11, 2717-2726.	2.9	48

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37	Angucyclines and Angucyclinones from Streptomyces sp. CB01913 Featuring C-Ring Cleavage and Expansion. Journal of Natural Products, 2015, 78, 2471-2480.	1.5	41
38	Enediynes: Exploration of microbial genomics to discover new anticancer drug leads. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 9-15.	1.0	55
39	BlmB and TlmB Provide Resistance to the Bleomycin Family of Antitumor Antibiotics by N-Acetylating Metal-Free Bleomycin, Tallysomycin, Phleomycin, and Zorbamycin. Biochemistry, 2014, 53, 6901-6909.	1.2	9
40	Strain Prioritization for Natural Product Discovery by a High-Throughput Real-Time PCR Method. Journal of Natural Products, 2014, 77, 2296-2303.	1.5	75
41	Enediyne Polyketide Synthases Stereoselectively Reduce the Î²-Ketoacyl Intermediates to Î²-<scp>d</scp>-Hydroxyacyl Intermediates in Enediyne Core Biosynthesis. Organic Letters, 2014, 16, 3958-3961.	2.4	15
42	Mechanisms of Self-Resistance in the Platensimycin- and Platencin-Producing Streptomyces platensis MA7327 and MA7339 Strains. Chemistry and Biology, 2014, 21, 389-397.	6.2	65
43	Biosynthetic Potential-Based Strain Prioritization for Natural Product Discovery: A Showcase for Diterpenoid-Producing Actinomycetes. Journal of Natural Products, 2014, 77, 377-387.	1.5	45
44	Tyrosine O-Prenyltransferase SirD Catalyzes S-, C-, and N-Prenylations on Tyrosine and Tryptophan Derivatives. ACS Chemical Biology, 2013, 8, 2707-2714.	1.6	37
45	Multisite Prenylation of 4-Substituted Tryptophans by Dimethylallyltryptophan Synthase. Journal of the American Chemical Society, 2013, 135, 1895-1902.	6.6	39