

Benjamin Philmus

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,282
citations

430874

18
h-index

414414

32
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44
all docs

44
docs citations

44
times ranked

1826
citing authors

#	ARTICLE	IF	CITATIONS
1	The Antibiotic Resistant Target Seeker (ARTS), an exploration engine for antibiotic cluster prioritization and novel drug target discovery. <i>Nucleic Acids Research</i> , 2017, 45, W42-W48.	14.5	142
2	Nontoxic Strains of Cyanobacteria Are the Result of Major Gene Deletion Events Induced by a Transposable Element. <i>Molecular Biology and Evolution</i> , 2008, 25, 1695-1704.	8.9	117
3	Post-translational Modification in Microviridin Biosynthesis. <i>ChemBioChem</i> , 2008, 9, 3066-3073.	2.6	110
4	Transkingdom interactions between Lactobacilli and hepatic mitochondria attenuate western diet-induced diabetes. <i>Nature Communications</i> , 2021, 12, 101.	12.8	86
5	Biosynthesis of F ₀ , Precursor of the F ₄₂₀ Cofactor, Requires a Unique Two Radical-SAM Domain Enzyme and Tyrosine as Substrate. <i>Journal of the American Chemical Society</i> , 2012, 134, 18173-18176.	13.7	66
6	Self-Resistance of Natural Product Producers: Past, Present, and Future Focusing on Self-Resistant Protein Variants. <i>ACS Chemical Biology</i> , 2018, 13, 1426-1437.	3.4	66
7	Radical S-Adenosylmethionine (SAM) Enzymes in Cofactor Biosynthesis: A Treasure Trove of Complex Organic Radical Rearrangement Reactions. <i>Journal of Biological Chemistry</i> , 2015, 290, 3980-3986.	3.4	64
8	Homotyrosine-Containing Cyanopeptolins 880 and 960 and Anabaenopeptins 908 and 915 from <i>Planktothrix agardhii</i> CYA 126/8. <i>Journal of Natural Products</i> , 2009, 72, 172-176.	3.0	57
9	Genetic Variation of Adenylation Domains of the Anabaenopeptin Synthesis Operon and Evolution of Substrate Promiscuity. <i>Journal of Bacteriology</i> , 2011, 193, 3822-3831.	2.2	53
10	Assessment of <i>Anabaena</i> sp. Strain PCC 7120 as a Heterologous Expression Host for Cyanobacterial Natural Products: Production of Lyngbyatoxin A. <i>ACS Synthetic Biology</i> , 2016, 5, 978-988.	3.8	53
11	Substrate Specificity and Scope of MvdD, a GRASP-like Ligase from the Microviridin Biosynthetic Gene Cluster. <i>ACS Chemical Biology</i> , 2009, 4, 429-434.	3.4	51
12	Thiamin Pyrimidine Biosynthesis in <i>Candida albicans</i> : A Remarkable Reaction between Histidine and Pyridoxal Phosphate. <i>Journal of the American Chemical Society</i> , 2012, 134, 9157-9159.	13.7	45
13	Investigations into the Biosynthesis, Regulation, and Self-Resistance of Toxoflavin in <i>Pseudomonas protegens</i> Pf-5. <i>ChemBioChem</i> , 2015, 16, 1782-1790.	2.6	44
14	Biosynthetic Versatility and Coordinated Action of 5'-Deoxyadenosyl Radicals in Deazaflavin Biosynthesis. <i>Journal of the American Chemical Society</i> , 2015, 137, 5406-5413.	13.7	40
15	3-Ketoacyl-ACP synthase (KAS) III homologues and their roles in natural product biosynthesis. <i>MedChemComm</i> , 2019, 10, 1517-1530.	3.4	37
16	A Highly Promiscuous γ -Ketoacyl-ACP Synthase (KAS) III-like Protein Is Involved in Pactamycin Biosynthesis. <i>ACS Chemical Biology</i> , 2017, 12, 362-366.	3.4	34
17	Secondary Metabolism and Interspecific Competition Affect Accumulation of Spontaneous Mutants in the GacS-GacA Regulatory System in <i>Pseudomonas protegens</i> . <i>MBio</i> , 2018, 9, .	4.1	33
18	A 5-formyltetrahydrofolate cycloligase paralog from all domains of life: comparative genomic and experimental evidence for a cryptic role in thiamin metabolism. <i>Functional and Integrative Genomics</i> , 2011, 11, 467-478.	3.5	21

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19	Expanding the Natural Products Heterologous Expression Repertoire in the Model Cyanobacterium <i>Anabaena</i> sp. Strain PCC 7120: Production of Pendolmycin and Teleocidin B-4. <i>ACS Synthetic Biology</i> , 2020, 9, 63-75.	3.8	18
20	Jizanpeptins, Cyanobacterial Protease Inhibitors from a <i>Symploca</i> sp. Cyanobacterium Collected in the Red Sea. <i>Journal of Natural Products</i> , 2018, 81, 1417-1425.	3.0	17
21	Identification of the Product of Toxoflavin Lyase: Degradation via a Baeyer-Villiger Oxidation. <i>Journal of the American Chemical Society</i> , 2012, 134, 5326-5330.	13.7	14
22	Assessment and verification of commercially available pressure cookers for laboratory sterilization. <i>PLoS ONE</i> , 2018, 13, e0208769.	2.5	14
23	Toxoflavin Lyase Requires a Novel 1-His-2-Carboxylate Facial Triad. <i>Biochemistry</i> , 2011, 50, 1091-1100.	2.5	13
24	The Rare Codon AGA Is Involved in Regulation of Pyoluteorin Biosynthesis in <i>Pseudomonas protegens</i> Pf-5. <i>Frontiers in Microbiology</i> , 2016, 7, 497.	3.5	13
25	The response regulator Npun_F1278 is essential for scytonemin biosynthesis in the cyanobacterium <i>Nostoc punctiforme</i> ATCC 29133. <i>Journal of Phycology</i> , 2016, 52, 564-571.	2.3	13
26	<i>Burkholderia glumae</i> ToxA Is a Dual-Specificity Methyltransferase That Catalyzes the Last Two Steps of Toxoflavin Biosynthesis. <i>Biochemistry</i> , 2016, 55, 2748-2759.	2.5	13
27	Mutation of the murC and murB Genes Impairs Heterocyst Differentiation in <i>Anabaena</i> sp. Strain PCC 7120. <i>Journal of Bacteriology</i> , 2016, 198, 1196-1206.	2.2	12
28	Identification of the First Riboflavin Catabolic Gene Cluster Isolated from <i>Microbacterium maritimum</i> G10. <i>Journal of Biological Chemistry</i> , 2016, 291, 23506-23515.	3.4	10
29	The influence of sigma factors and ribosomal recognition elements on heterologous expression of cyanobacterial gene clusters in <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	8
30	Metabolomics analysis reveals both plant variety and choice of hormone treatment modulate vinca alkaloid production in <i>Catharanthus roseus</i> . <i>Plant Direct</i> , 2020, 4, e00267.	1.9	5
31	Biochemical Characterization and Structural Basis of Reactivity and Regioselectivity Differences between <i>Burkholderia thailandensis</i> and <i>Burkholderia glumae</i> 1,6-Didesmethyltoxoflavin <i>N</i> -Methyltransferase. <i>Biochemistry</i> , 2017, 56, 3934-3944.	2.5	4
32	Untargeted Identification of Alkyne-Containing Natural Products Using Ruthenium-Catalyzed Azide Alkyne Cycloaddition Reactions Coupled to LC-MS/MS. <i>Journal of Natural Products</i> , 2022, 85, 105-114.	3.0	4
33	Evaluation of inducible promoter-riboswitch constructs for heterologous protein expression in the cyanobacterial species <i>Anabaena</i> sp. PCC 7120. <i>Synthetic Biology</i> , 2021, 6, ysab019.	2.2	2