# Benjamin Philmus

List of Publications by Year
in descending order



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|---|---|---|---|
| 33 papers | 1,282 citations | 430874 18 h-index | 414414 32 g-index |
| 44 all docs | 44 docs citations | 44 times ranked | 1826 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Untargeted Identification of Alkyne-Containing Natural Products Using Ruthenium-Catalyzed Azide Alkyne Cycloaddition Reactions Coupled to LC-MS/MS. Journal of Natural Products, 2022, 85, 105-114. | 3.0 | 4 |
| 2 | Transkingdom interactions between Lactobacilli and hepatic mitochondria attenuate western diet-induced diabetes. Nature Communications, 2021, 12, 101. | 12.8 | 86 |
| 3 | Evaluation of inducible promoterâ€“riboswitch constructs for heterologous protein expression in the cyanobacterial species Anabaena sp. PCC 7120. Synthetic Biology, 2021, 6, ysab019. | 2.2 | 2 |
| 4 | Expanding the Natural Products Heterologous Expression Repertoire in the Model Cyanobacterium Anabaena sp. Strain PCC 7120: Production of Pendolmycin and Teleocidin B-4. ACS Synthetic Biology, 2020, 9, 63-75. | 3.8 | 18 |
| 5 | Metabolomics analysis reveals both plant variety and choice of hormone treatment modulate vinca alkaloid production in Catharanthus roseus. Plant Direct, 2020, 4, e00267. | 1.9 | 5 |
| 6 | 3-Ketoacyl-ACP synthase (KAS) III homologues and their roles in natural product biosynthesis. MedChemComm, 2019, 10, 1517-1530. | 3.4 | 37 |
| 7 | Secondary Metabolism and Interspecific Competition Affect Accumulation of Spontaneous Mutants in the GacS-GacA Regulatory System in Pseudomonas protegens. MBio, 2018, 9, . | 4.1 | 33 |
| 8 | Assessment and verification of commercially available pressure cookers for laboratory sterilization. PLoS ONE, 2018, 13, e0208769. | 2.5 | 14 |
| 9 | Jizanpeptins, Cyanobacterial Protease Inhibitors from a Symploca sp. Cyanobacterium Collected in the Red Sea. Journal of Natural Products, 2018, 81, 1417-1425. | 3.0 | 17 |
| 10 | Self-Resistance of Natural Product Producers: Past, Present, and Future Focusing on Self-Resistant Protein Variants. ACS Chemical Biology, 2018, 13, 1426-1437. | 3.4 | 66 |
| 11 | The influence of sigma factors and ribosomal recognition elements on heterologous expression of cyanobacterial gene clusters in Escherichia coli. FEMS Microbiology Letters, 2018, 365, . | 1.8 | 8 |
| 12 | A Highly Promiscuous ÃŸ-Ketoacyl-ACP Synthase (KAS) III-like Protein Is Involved in Pactamycin Biosynthesis. ACS Chemical Biology, 2017, 12, 362-366. | 3.4 | 34 |
| 13 | The Antibiotic Resistant Target Seeker (ARTS), an exploration engine for antibiotic cluster prioritization and novel drug target discovery. Nucleic Acids Research, 2017, 45, W42-W48. | 14.5 | 142 |
| 14 | Biochemical Characterization and Structural Basis of Reactivity and Regioselectivity Differences between Burkholderia thailandensis and Burkholderia glumae 1,6-Didesmethyltoxoflavin N-Methyltransferase. Biochemistry, 2017, 56, 3934-3944. | 2.5 | 4 |
| 15 | The Rare Codon AGA Is Involved in Regulation of Pyoluteorin Biosynthesis in Pseudomonas protegens Pf-5. Frontiers in Microbiology, 2016, 7, 497. | 3.5 | 13 |
| 16 | The response regulator Npun_F1278 is essential for scytonemin biosynthesis in the cyanobacterium Nostoc punctiforme ATCC 29133. Journal of Phycology, 2016, 52, 564-571. | 2.3 | 13 |
| 17 | Assessment of Anabaena sp. Strain PCC 7120 as a Heterologous Expression Host for Cyanobacterial Natural Products: Production of Lyngbyatoxin A. ACS Synthetic Biology, 2016, 5, 978-988. | 3.8 | 53 |
| 18 | Burkholderia glumae ToxA Is a Dual-Specificity Methyltransferase That Catalyzes the Last Two Steps of Toxoflavin Biosynthesis. Biochemistry, 2016, 55, 2748-2759. | 2.5 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Identification of the First Riboflavin Catabolic Gene Cluster Isolated from Microbacterium maritypicum G10. Journal of Biological Chemistry, 2016, 291, 23506-23515. | 3.4 | 10 |
| 20 | Mutation of the murC and murB Genes Impairs Heterocyst Differentiation in Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2016, 198, 1196-1206. | 2.2 | 12 |
| 21 | Investigations into the Biosynthesis, Regulation, and Selfâ€Resistance of Toxoflavin in Pseudomonas protegens Pfâ€5. ChemBioChem, 2015, 16, 1782-1790. | 2.6 | 44 |
| 22 | Radical S-Adenosylmethionine (SAM) Enzymes in Cofactor Biosynthesis: A Treasure Trove of Complex Organic Radical Rearrangement Reactions. Journal of Biological Chemistry, 2015, 290, 3980-3986. | 3.4 | 64 |
| 23 | Biosynthetic Versatility and Coordinated Action of 5â€²-Deoxyadenosyl Radicals in Deazaflavin Biosynthesis. Journal of the American Chemical Society, 2015, 137, 5406-5413. | 13.7 | 40 |
| 24 | Thiamin Pyrimidine Biosynthesis in Candida albicans: A Remarkable Reaction between Histidine and Pyridoxal Phosphate. Journal of the American Chemical Society, 2012, 134, 9157-9159. | 13.7 | 45 |
| 25 | Identification of the Product of Toxoflavin Lyase: Degradation via a Baeyerâ€“Villiger Oxidation. Journal of the American Chemical Society, 2012, 134, 5326-5330. | 13.7 | 14 |
| 26 | Biosynthesis of F<sub>0</sub>, Precursor of the F<sub>420</sub> Cofactor, Requires a Unique Two Radical-SAM Domain Enzyme and Tyrosine as Substrate. Journal of the American Chemical Society, 2012, 134, 18173-18176. | 13.7 | 66 |
| 27 | Toxoflavin Lyase Requires a Novel 1-His-2-Carboxylate Facial Triad,. Biochemistry, 2011, 50, 1091-1100. | 2.5 | 13 |
| 28 | A 5-formyltetrahydrofolate cycloligase paralog from all domains of life: comparative genomic and experimental evidence for a cryptic role in thiamin metabolism. Functional and Integrative Genomics, 2011, 11, 467-478. | 3.5 | 21 |
| 29 | Genetic Variation of Adenylation Domains of the Anabaenopeptin Synthesis Operon and Evolution of Substrate Promiscuity. Journal of Bacteriology, 2011, 193, 3822-3831. | 2.2 | 53 |
| 30 | Homotyrosine-Containing Cyanopeptolins 880 and 960 and Anabaenopeptins 908 and 915 from Planktothrix agardhii CYA 126/8. Journal of Natural Products, 2009, 72, 172-176. | 3.0 | 57 |
| 31 | Substrate Specificity and Scope of MvdD, a GRASP-like Ligase from the Microviridin Biosynthetic Gene Cluster. ACS Chemical Biology, 2009, 4, 429-434. | 3.4 | 51 |
| 32 | Postâ€translational Modification in Microviridin Biosynthesis. ChemBioChem, 2008, 9, 3066-3073. | 2.6 | 110 |
| 33 | Nontoxic Strains of Cyanobacteria Are the Result of Major Gene Deletion Events Induced by a Transposable Element. Molecular Biology and Evolution, 2008, 25, 1695-1704. | 8.9 | 117 |