

Jonathan R Chekan

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,264
citations

516710

16
h-index

501196

28
g-index

29
all docs

29
docs citations

29
times ranked

1913
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanistic Understanding of Lanthipeptide Biosynthetic Enzymes. <i>Chemical Reviews</i> , 2017, 117, 5457-5520.	47.7	375
2	Xylan utilization in human gut commensal bacteria is orchestrated by unique modular organization of polysaccharide-degrading enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3708-17.	7.1	137
3	Biosynthesis of the neurotoxin domoic acid in a bloom-forming diatom. <i>Science</i> , 2018, 361, 1356-1358.	12.6	124
4	Discovery of a new ATP-binding motif involved in peptidic azoline biosynthesis. <i>Nature Chemical Biology</i> , 2014, 10, 823-829.	8.0	77
5	Genome mining methods to discover bioactive natural products. <i>Natural Product Reports</i> , 2021, 38, 2100-2129.	10.3	61
6	Guanitoxin, re-naming a cyanobacterial organophosphate toxin. <i>Harmful Algae</i> , 2020, 92, 101737.	4.8	54
7	Scalable Biosynthesis of the Seaweed Neurochemical, Kainic Acid. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8454-8457.	13.8	49
8	Characterization of the macrocyclase involved in the biosynthesis of RiPP cyclic peptides in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6551-6556.	7.1	49
9	Steric complementarity directs sequence promiscuous leader binding in RiPP biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24049-24055.	7.1	40
10	Biosynthesis of <i>4</i> -Chlorokynurenine, an Antidepressant Prodrug and a Non-Proteinogenic Amino Acid Found in Lipopeptide Antibiotics. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8394-8399.	13.8	31
11	Structure of the Lasso Peptide Isopeptidase Identifies a Topology for Processing Threaded Substrates. <i>Journal of the American Chemical Society</i> , 2016, 138, 16452-16458.	13.7	29
12	Molecular basis for resistance against phosphonate antibiotics and herbicides. <i>MedChemComm</i> , 2016, 7, 28-36.	3.4	25
13	Biosynthesis of Guanitoxin Enables Global Environmental Detection in Freshwater Cyanobacteria. <i>Journal of the American Chemical Society</i> , 2022, 144, 9372-9379.	13.7	25
14	Structure and Function of Phosphonoacetaldehyde Dehydrogenase: The Missing Link in Phosphonoacetate Formation. <i>Chemistry and Biology</i> , 2014, 21, 125-135.	6.0	24
15	A Common Late-Stage Intermediate in Catalysis by 2-Hydroxyethyl-phosphonate Dioxygenase and Methylphosphonate Synthase. <i>Journal of the American Chemical Society</i> , 2015, 137, 3217-3220.	13.7	21
16	Biosynthesis of marine toxins. <i>Current Opinion in Chemical Biology</i> , 2020, 59, 119-129.	6.1	20
17	Characterization of Two Late-Stage Enzymes Involved in Fosfomycin Biosynthesis in Pseudomonads. <i>ACS Chemical Biology</i> , 2017, 12, 456-463.	3.4	17
18	Molecular basis for enantioselective herbicide degradation imparted by aryloxyalkanoate dioxygenases in transgenic plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13299-13304.	7.1	17

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19	Domoic acid biosynthesis in the red alga <i>Chondria armata</i> suggests a complex evolutionary history for toxin production. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	16
20	Structural and Biochemical Basis for Mannan Utilization by <i>Caldanaerobius polysaccharolyticus</i> Strain ATCC BAA-17. Journal of Biological Chemistry, 2014, 289, 34965-34977.	3.4	13
21	Bacterial Tetrabromopyrrole Debrominase Shares a Reductive Dehalogenation Strategy with Human Thyroid Deiodinase. Biochemistry, 2019, 58, 5329-5338.	2.5	13
22	Algal neurotoxin biosynthesis repurposes the terpene cyclase structural fold into an N-prenyltransferase. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12799-12805.	7.1	13
23	Chemical Rescue and Inhibition Studies to Determine the Role of Arg301 in Phosphite Dehydrogenase. PLoS ONE, 2014, 9, e87134.	2.5	12
24	Characterization of a Glyphosate-Tolerant Enzyme from <i>Streptomyces svecius</i> : A Distinct Class of 5-Enolpyruvylshikimate-3-phosphate Synthases. Journal of Agricultural and Food Chemistry, 2021, 69, 5096-5104.	5.2	6
25	Biosynthesis of 4-Chlorokynurenine, an Antidepressant Prodrug and a Non-Proteinogenic Amino Acid Found in Lipopeptide Antibiotics. Angewandte Chemie, 2019, 131, 8482.	2.0	5
26	Biosynthesis of the Antibiotic Bicyclomycin in Soil and Pathogenic Bacteria. Biochemistry, 2018, 57, 897-898.	2.5	4
27	Scalable Biosynthesis of the Seaweed Neurochemical, Kainic Acid. Angewandte Chemie, 2019, 131, 8542-8545.	2.0	4
28	Preparation and Characterization of Tetrabromopyrrole Debrominase From Marine Proteobacteria. Methods in Enzymology, 2018, 605, 253-265.	1.0	3