Christopher T Lohans

List of Publications by Year in Descending Order

51 papers	1,211 citations	23 h-index	33 g-index
53 ext. papers	1,499 ext. citations	6.2 avg, IF	4.58 L-index

#	Paper	IF	Citations
51	Studies on enmetazobactam clarify mechanisms of widely used β-lactamase inhibitors.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2117310119	11.5	1
50	Faropenem reacts with serine and metallo-β-lactamases to give multiple products. *European Journal of Medicinal Chemistry*, **2021**, 215, 113257	6.8	5
49	β-Lactam antibiotic targets and resistance mechanisms: from covalent inhibitors to substrates. *RSC Medicinal Chemistry*, **2021**, 12, 1623-1639	3.5	8
48	Analysis of β-lactone formation by clinically observed carbapenemases informs on a novel antibiotic resistance mechanism. *Journal of Biological Chemistry*, **2020**, 295, 16604-16613	5.4	8
47	Breaking down the cell wall: Strategies for antibiotic discovery targeting bacterial transpeptidases. *European Journal of Medicinal Chemistry*, **2020**, 194, 112262	6.8	15
46	Structure-Activity Relationship and Crystallographic Studies on 4-Hydroxypyrimidine HIF Prolyl Hydroxylase Domain Inhibitors. *ChemMedChem*, **2020**, 15, 270-273	3.7	12
45	Biochemical and biophysical analyses of hypoxia sensing prolyl hydroxylases from and. *Journal of Biological Chemistry*, **2020**, 295, 16545-16561	5.4	3
44	A Fluorescence-Based Assay for Screening β-Lactams Targeting the Mycobacterium tuberculosis Transpeptidase Ldt. *ChemBioChem*, **2020**, 21, 368-372	3.8	7
43	Mechanistic Insights into β-Lactamase-Catalysed Carbapenem Degradation Through Product Characterisation. *Scientific Reports*, **2019**, 9, 13608	4.9	18
42	Studies on the inhibition of AmpC and other β-lactamases by cyclic boronates. *Biochimica Et Biophysica Acta - General Subjects*, **2019**, 1863, 742-748	4	24
41	Targeting the Mycobacterium tuberculosis transpeptidase Ldt with cysteine-reactive inhibitors including ebselen. *Chemical Communications*, **2019**, 55, 10214-10217	5.8	16
40	F NMR Monitoring of Reversible Protein Post-Translational Modifications: Class D β-Lactamase Carbamylation and Inhibition. *Chemistry - A European Journal*, **2019**, 25, 11837-11841	4.8	8
39	Expansion of base excision repair compensates for a lack of DNA repair by oxidative dealkylation in budding yeast. *Journal of Biological Chemistry*, **2019**, 294, 13629-13637	5.4	5
38	Inhibition of a viral prolyl hydroxylase. *Bioorganic and Medicinal Chemistry*, **2019**, 27, 2405-2412	3.4	2
37	Structure-Based in Silico Screening Identifies a Potent Ebolavirus Inhibitor from a Traditional Chinese Medicine Library. *Journal of Medicinal Chemistry*, **2019**, 62, 2928-2937	8.3	18
36	Non-Hydrolytic β-Lactam Antibiotic Fragmentation by l,d-Transpeptidases and Serine β-Lactamase Cysteine Variants. *Angewandte Chemie*, **2019**, 131, 2012-2016	3.6	4
35	Non-Hydrolytic β-Lactam Antibiotic Fragmentation by l,d-Transpeptidases and Serine β-Lactamase Cysteine Variants. *Angewandte Chemie - International Edition*, **2019**, 58, 1990-1994	16.4	18

34	Selective Inhibitors of a Human Prolyl Hydroxylase (OGFOD1) Involved in Ribosomal Decoding. *Chemistry - A European Journal*, **2019**, 25, 2019-2024	4.8	2
33	A New Mechanism for β-Lactamases: Class D Enzymes Degrade 1β-Methyl Carbapenems through Lactone Formation. *Angewandte Chemie*, **2018**, 130, 1296-1299	3.6	3
32	A New Mechanism for β-Lactamases: Class D Enzymes Degrade 1β-Methyl Carbapenems through Lactone Formation. *Angewandte Chemie - International Edition*, **2018**, 57, 1282-1285	16.4	21
31	Roles of 2-oxoglutarate oxygenases and isopenicillin N synthase in β-lactam biosynthesis. *Natural Product Reports*, **2018**, 35, 735-756	15.1	23
30	Cyclic Boronates Inhibit All Classes of β-Lactamases. *Antimicrobial Agents and Chemotherapy*, **2017**, 61,	5.9	75
29	Identification and three-dimensional structure of carnobacteriocin XY, a class IIb bacteriocin produced by Carnobacteria. *FEBS Letters*, **2017**, 591, 1349-1359	3.8	12
28	Structural and stereoelectronic insights into oxygenase-catalyzed formation of ethylene from 2-oxoglutarate. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 4667-4672	11.5	33
27	Crystallographic analyses of isoquinoline complexes reveal a new mode of metallo-β-lactamase inhibition. *Chemical Communications*, **2017**, 53, 5806-5809	5.8	24
26	NMR-filtered virtual screening leads to non-metal chelating metallo-β-lactamase inhibitors. *Chemical Science*, **2017**, 8, 928-937	9.4	52
25	New Delhi Metallo-β-Lactamase 1 Catalyzes Avibactam and Aztreonam Hydrolysis. *Antimicrobial Agents and Chemotherapy*, **2017**, 61,	5.9	23
24	Molecular and cellular mechanisms of HIF prolyl hydroxylase inhibitors in clinical trials. *Chemical Science*, **2017**, 8, 7651-7668	9.4	104
23	Structural/mechanistic insights into the efficacy of nonclassical β-lactamase inhibitors against extensively drug resistant Stenotrophomonas maltophilia clinical isolates. *Molecular Microbiology*, **2017**, 106, 492-504	4.1	29
22	Crotonases: Nature's Exceedingly Convertible Catalysts. *ACS Catalysis*, **2017**, 7, 6587-6599	13.1	10
21	C-Carbamylation as a mechanistic probe for the inhibition of class D β-lactamases by avibactam and halide ions. *Organic and Biomolecular Chemistry*, **2017**, 15, 6024-6032	3.9	12
20	IFPTarget: A Customized Virtual Target Identification Method Based on Protein-Ligand Interaction Fingerprinting Analyses. *Journal of Chemical Information and Modeling*, **2017**, 57, 1640-1651	6.1	23
19	Solution Structures of Phenol-Soluble Modulins α1, α3, and α2, Virulence Factors from Staphylococcus aureus. *Biochemistry*, **2016**, 55, 4798-806	3.2	28
18	Draft Genome Sequence of the Bacteriocin-Producing Strain Enterococcus faecium M3K31, Isolated from Griffon Vultures (Gyps fulvus subsp. fulvus). *Genome Announcements*, **2016**, 4,		3
17	Nuclear Magnetic Resonance Solution Structures of Lacticin Q and Aureocin A53 Reveal a Structural Motif Conserved among Leaderless Bacteriocins with Broad-Spectrum Activity. *Biochemistry*, **2016**, 55, 733-42	3.2	27

16	Studies on tridecaptin B(1), a lipopeptide with activity against multidrug resistant Gram-negative bacteria. *Organic and Biomolecular Chemistry*, **2015**, 13, 6073-81	3.9	30
15	Draft Genome Sequences of Paenibacillus polymyxa NRRL B-30509 and Paenibacillus terrae NRRL B-30644, Strains from a Poultry Environment That Produce Tridecaptin A and Paenicidins. *Genome Announcements*, **2015**, 3,		6
14	Solution Structure of Enterocin HF, an Antilisterial Bacteriocin Produced by Enterococcus faecium M3K31. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 10689-95	5.7	16
13	Characterization of bacterial antimicrobial peptides active against Campylobacter jejuni. *Canadian Journal of Chemistry*, **2015**, 93, 381-388	0.9	9
12	Solution structure of acidocin B, a circular bacteriocin produced by Lactobacillus acidophilus M46. *Applied and Environmental Microbiology*, **2015**, 81, 2910-8	4.8	35
11	Genetic determinants of reutericyclin biosynthesis in Lactobacillus reuteri. *Applied and Environmental Microbiology*, **2015**, 81, 2032-41	4.8	39
10	Purification and characterization of antimicrobial peptides from fish isolate Carnobacterium maltaromaticum C2: Carnobacteriocin X and carnolysins A1 and A2. *International Journal of Food Microbiology*, **2014**, 173, 81-8	5.8	27
9	Biochemical, structural, and genetic characterization of tridecaptin A□an antagonist of Campylobacter jejuni. *ChemBioChem*, **2014**, 15, 243-9	3.8	43
8	Synthesis and structure-activity relationship studies of N-terminal analogues of the antimicrobial peptide tridecaptin A(1). *Journal of Medicinal Chemistry*, **2014**, 57, 1127-31	8.3	43
7	Structure and biosynthesis of carnolysin, a homologue of enterococcal cytolysin with D-amino acids. *Journal of the American Chemical Society*, **2014**, 136, 13150-3	16.4	53
6	Structural characterization of thioether-bridged bacteriocins. *Journal of Antibiotics*, **2014**, 67, 23-30	3.7	36
5	Solution structures of the linear leaderless bacteriocins enterocin 7A and 7B resemble carnocyclin A, a circular antimicrobial peptide. *Biochemistry*, **2013**, 52, 3987-94	3.2	26
4	Substitution of a conserved disulfide in the type IIa bacteriocin, leucocin A, with L-leucine and L-serine residues: effects on activity and three-dimensional structure. *ChemBioChem*, **2012**, 13, 35-8	3.8	14
3	Structural characterization of the highly cyclized lantibiotic paenicidin A via a partial desulfurization/reduction strategy. *Journal of the American Chemical Society*, **2012**, 134, 19540-3	16.4	42
2	Development of Class IIa Bacteriocins as Therapeutic Agents. *International Journal of Microbiology*, **2012**, 2012, 386410	3.6	52
1	The activity of bacteriocins from Carnobacterium maltaromaticum UAL307 against gram-negative bacteria in combination with EDTA treatment. *FEMS Microbiology Letters*, **2011**, 317, 152-9	2.9	64