

# Christopher T Lohans

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Molecular and cellular mechanisms of HIF prolyl hydroxylase inhibitors in clinical trials. <i>Chemical Science</i> , <b>2017</b> , 8, 7651-7668  | 9.4  | 104       |
| 50 | Cyclic Boronates Inhibit All Classes of $\beta$ -Lactamases. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2017</b> , 61,  | 5.9  | 75        |
| 49 | The activity of bacteriocins from <i>Carnobacterium maltaromaticum</i> UAL307 against gram-negative bacteria in combination with EDTA treatment. <i>FEMS Microbiology Letters</i> , <b>2011</b> , 317, 152-9   | 2.9  | 64        |
| 48 | Structure and biosynthesis of carnolysin, a homologue of enterococcal cytolysin with D-amino acids. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 13150-3   | 16.4 | 53        |
| 47 | NMR-filtered virtual screening leads to non-metal chelating metallo- $\beta$ -lactamase inhibitors. <i>Chemical Science</i> , <b>2017</b> , 8, 928-937   | 9.4  | 52        |
| 46 | Development of Class IIa Bacteriocins as Therapeutic Agents. <i>International Journal of Microbiology</i> , <b>2012</b> , 2012, 386410   | 3.6  | 52        |
| 45 | Biochemical, structural, and genetic characterization of tridecaptin A [an antagonist of <i>Campylobacter jejuni</i> . <i>ChemBioChem</i> , <b>2014</b> , 15, 243-9  | 3.8  | 43        |
| 44 | Synthesis and structure-activity relationship studies of N-terminal analogues of the antimicrobial peptide tridecaptin A(1). <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 1127-31   | 8.3  | 43        |
| 43 | Structural characterization of the highly cyclized lantibiotic paenicidin A via a partial desulfurization/reduction strategy. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19540-3   | 16.4 | 42        |
| 42 | Genetic determinants of reutericyclin biosynthesis in <i>Lactobacillus reuteri</i> . <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 2032-41   | 4.8  | 39        |
| 41 | Structural characterization of thioether-bridged bacteriocins. <i>Journal of Antibiotics</i> , <b>2014</b> , 67, 23-30   | 3.7  | 36        |
| 40 | Solution structure of acidocin B, a circular bacteriocin produced by <i>Lactobacillus acidophilus</i> M46. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 2910-8  | 4.8  | 35        |
| 39 | Structural and stereoelectronic insights into oxygenase-catalyzed formation of ethylene from 2-oxoglutarate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 4667-4672                   | 11.5 | 33        |
| 38 | Studies on tridecaptin B(1), a lipopeptide with activity against multidrug resistant Gram-negative bacteria. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 6073-81   | 3.9  | 30        |
| 37 | Structural/mechanistic insights into the efficacy of nonclassical $\beta$ -lactamase inhibitors against extensively drug resistant <i>Stenotrophomonas maltophilia</i> clinical isolates. <i>Molecular Microbiology</i> , <b>2017</b> , 106, 492-504 | 4.1  | 29        |
| 36 | Solution Structures of Phenol-Soluble Modulins $\alpha$ , $\beta$ , and $\gamma$ , Virulence Factors from <i>Staphylococcus aureus</i> . <i>Biochemistry</i> , <b>2016</b> , 55, 4798-806  | 3.2  | 28        |
| 35 | Nuclear Magnetic Resonance Solution Structures of Lacticin Q and Aureocin A53 Reveal a Structural Motif Conserved among Leaderless Bacteriocins with Broad-Spectrum Activity. <i>Biochemistry</i> , <b>2016</b> , 55, 733-42                         | 3.2  | 27        |

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| 34 | Purification and characterization of antimicrobial peptides from fish isolate <i>Carnobacterium maltaromaticum</i> C2: Carnobacteriocin X and carnolysins A1 and A2. <i>International Journal of Food Microbiology</i> , <b>2014</b> , 173, 81-8 | 5.8  | 27 |
| 33 | Solution structures of the linear leaderless bacteriocins enterocin 7A and 7B resemble carnocyclin A, a circular antimicrobial peptide. <i>Biochemistry</i> , <b>2013</b> , 52, 3987-94  | 3.2  | 26 |
| 32 | Crystallographic analyses of isoquinoline complexes reveal a new mode of metallo- $\beta$ -lactamase inhibition. <i>Chemical Communications</i> , <b>2017</b> , 53, 5806-5809  | 5.8  | 24 |
| 31 | Studies on the inhibition of AmpC and other $\beta$ -lactamases by cyclic boronates. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2019</b> , 1863, 742-748   | 4    | 24 |
| 30 | New Delhi Metallo- $\beta$ -Lactamase 1 Catalyzes Avibactam and Aztreonam Hydrolysis. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2017</b> , 61,   | 5.9  | 23 |
| 29 | IFPTarget: A Customized Virtual Target Identification Method Based on Protein-Ligand Interaction Fingerprinting Analyses. <i>Journal of Chemical Information and Modeling</i> , <b>2017</b> , 57, 1640-1651                                      | 6.1  | 23 |
| 28 | Roles of 2-oxoglutarate oxygenases and isopenicillin N synthase in $\beta$ -lactam biosynthesis. <i>Natural Product Reports</i> , <b>2018</b> , 35, 735-756  | 15.1 | 23 |
| 27 | A New Mechanism for $\beta$ -Lactamases: Class D Enzymes Degrade 1-Methyl Carbapenems through Lactone Formation. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 1282-1285  | 16.4 | 21 |
| 26 | Mechanistic Insights into $\beta$ -Lactamase-Catalysed Carbapenem Degradation Through Product Characterisation. <i>Scientific Reports</i> , <b>2019</b> , 9, 13608   | 4.9  | 18 |
| 25 | Structure-Based in Silico Screening Identifies a Potent Ebolavirus Inhibitor from a Traditional Chinese Medicine Library. <i>Journal of Medicinal Chemistry</i> , <b>2019</b> , 62, 2928-2937  | 8.3  | 18 |
| 24 | Non-Hydrolytic $\beta$ -Lactam Antibiotic Fragmentation by L,d-Transpeptidases and Serine $\beta$ -Lactamase Cysteine Variants. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 1990-1994                                   | 16.4 | 18 |
| 23 | Solution Structure of Enterocin HF, an Antilisterial Bacteriocin Produced by <i>Enterococcus faecium</i> M3K31. <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 10689-95   | 5.7  | 16 |
| 22 | Targeting the Mycobacterium tuberculosis transpeptidase Ldt with cysteine-reactive inhibitors including ebselen. <i>Chemical Communications</i> , <b>2019</b> , 55, 10214-10217  | 5.8  | 16 |
| 21 | Breaking down the cell wall: Strategies for antibiotic discovery targeting bacterial transpeptidases. <i>European Journal of Medicinal Chemistry</i> , <b>2020</b> , 194, 112262   | 6.8  | 15 |
| 20 | 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. <i>ChemBioChem</i> , <b>2012</b> , 13, 35-8                            | 3.8  | 14 |
| 19 | Identification and three-dimensional structure of carnobacteriocin XY, a class IIb bacteriocin produced by <i>Carnobacteria</i> . <i>FEBS Letters</i> , <b>2017</b> , 591, 1349-1359   | 3.8  | 12 |
| 18 | C-Carbamylation as a mechanistic probe for the inhibition of class D $\beta$ -lactamases by avibactam and halide ions. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 6024-6032   | 3.9  | 12 |
| 17 | Structure-Activity Relationship and Crystallographic Studies on 4-Hydroxypyrimidine HIF Prolyl Hydroxylase Domain Inhibitors. <i>ChemMedChem</i> , <b>2020</b> , 15, 270-273   | 3.7  | 12 |

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| 16 | Crotonases: Nature's Exceedingly Convertible Catalysts. <i>ACS Catalysis</i> , <b>2017</b> , 7, 6587-6599  | 13.1 | 10 |
| 15 | Characterization of bacterial antimicrobial peptides active against <i>Campylobacter jejuni</i> . <i>Canadian Journal of Chemistry</i> , <b>2015</b> , 93, 381-388   | 0.9  | 9  |
| 14 | Analysis of $\beta$ -lactone formation by clinically observed carbapenemases informs on a novel antibiotic resistance mechanism. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 16604-16613   | 5.4  | 8  |
| 13 | <sup>19</sup> F NMR Monitoring of Reversible Protein Post-Translational Modifications: Class D $\beta$ -Lactamase Carbamylation and Inhibition. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 11837-11841                            | 4.8  | 8  |
| 12 | $\beta$ -Lactam antibiotic targets and resistance mechanisms: from covalent inhibitors to substrates. <i>RSC Medicinal Chemistry</i> , <b>2021</b> , 12, 1623-1639   | 3.5  | 8  |
| 11 | A Fluorescence-Based Assay for Screening $\beta$ -Lactams Targeting the Mycobacterium tuberculosis Transpeptidase Ldt. <i>ChemBioChem</i> , <b>2020</b> , 21, 368-372  | 3.8  | 7  |
| 10 | Draft Genome Sequences of <i>Paenibacillus polymyxa</i> NRRL B-30509 and <i>Paenibacillus terrae</i> NRRL B-30644, Strains from a Poultry Environment That Produce Tridecaptin A and Paenicidins. <i>Genome Announcements</i> , <b>2015</b> , 3, |      | 6  |
| 9  | Expansion of base excision repair compensates for a lack of DNA repair by oxidative dealkylation in budding yeast. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 13629-13637   | 5.4  | 5  |
| 8  | Faropenem reacts with serine and metallo- $\beta$ -lactamases to give multiple products. <i>European Journal of Medicinal Chemistry</i> , <b>2021</b> , 215, 113257  | 6.8  | 5  |
| 7  | Non-Hydrolytic $\beta$ -Lactam Antibiotic Fragmentation by L,d-Transpeptidases and Serine $\beta$ -Lactamase Cysteine Variants. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 2012-2016  | 3.6  | 4  |
| 6  | A New Mechanism for $\beta$ -Lactamases: Class D Enzymes Degrade 1 $\beta$ -Methyl Carbapenems through Lactone Formation. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 1296-1299  | 3.6  | 3  |
| 5  | Draft Genome Sequence of the Bacteriocin-Producing Strain <i>Enterococcus faecium</i> M3K31, Isolated from Griffon Vultures ( <i>Gyps fulvus</i> subsp. <i>fulvus</i> ). <i>Genome Announcements</i> , <b>2016</b> , 4,                          |      | 3  |
| 4  | Biochemical and biophysical analyses of hypoxia sensing prolyl hydroxylases from and. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 16545-16561  | 5.4  | 3  |
| 3  | Inhibition of a viral prolyl hydroxylase. <i>Bioorganic and Medicinal Chemistry</i> , <b>2019</b> , 27, 2405-2412  | 3.4  | 2  |
| 2  | Selective Inhibitors of a Human Prolyl Hydroxylase (OGFOD1) Involved in Ribosomal Decoding. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 2019-2024  | 4.8  | 2  |
| 1  | Studies on enmetazobactam clarify mechanisms of widely used $\beta$ -lactamase inhibitors.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2117310119                              | 11.5 | 1  |