

# Ryan T Mckay

## List of Publications by Year in descending order

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35  
papers

2,607  
citations

279701

23  
h-index

360920

35  
g-index

41  
all docs

41  
docs citations

41  
times ranked

3989  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | N-Terminal Finger Stabilizes the S1 Pocket for the Reversible Feline Drug GC376 in the SARS-CoV-2 Mpro Dimer. <i>Journal of Molecular Biology</i> , 2021, 433, 167003.  | 2.0 | 23        |
| 2  | NMR as a "Gold Standard" Method in Drug Design and Discovery. <i>Molecules</i> , 2020, 25, 4597.  | 1.7 | 48        |
| 3  | Feline coronavirus drug inhibits the main protease of SARS-CoV-2 and blocks virus replication. <i>Nature Communications</i> , 2020, 11, 4282.   | 5.8 | 334       |
| 4  | NMR Spectroscopy for Metabolomics Research. <i>Metabolites</i> , 2019, 9, 123.  | 1.3 | 627       |
| 5  | Recommended strategies for spectral processing and post-processing of 1D 1H-NMR data of biofluids with a particular focus on urine. <i>Metabolomics</i> , 2018, 14, 31.   | 1.4 | 107       |
| 6  | Long TE STEAM and PRESS for estimating fat olefinic/methyl ratios and relative % fat content at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 169-177.   | 1.9 | 11        |
| 7  | Identification and three-dimensional structure of carnobacteriocin XY, a class IIb bacteriocin produced by <i>Carnobacteria</i> . <i>FEBS Letters</i> , 2017, 591, 1349-1359.   | 1.3 | 19        |
| 8  | Insights into the Mechanism of Action of the Two-Peptide Lantibiotic Lacticin 3147. <i>Journal of the American Chemical Society</i> , 2017, 139, 17803-17810.   | 6.6 | 38        |
| 9  | Assessment of 1 H NMR-based metabolomics analysis for normalization of urinary metals against creatinine. <i>Clinica Chimica Acta</i> , 2017, 464, 37-43.   | 0.5 | 11        |
| 10 | Metabolomics and Its Application to Acute Lung Diseases. <i>Frontiers in Immunology</i> , 2016, 7, 44.  | 2.2 | 94        |
| 11 | Recommendations and Standardization of Biomarker Quantification Using NMR-Based Metabolomics with Particular Focus on Urinary Analysis. <i>Journal of Proteome Research</i> , 2016, 15, 360-373.  | 1.8 | 122       |
| 12 | Solution Structure of Acidocin B, a Circular Bacteriocin Produced by <i>Lactobacillus acidophilus</i> M46. <i>Applied and Environmental Microbiology</i> , 2015, 81, 2910-2918.   | 1.4 | 58        |
| 13 | Signal Intensities Derived from Different NMR Probes and Parameters Contribute to Variations in Quantification of Metabolites. <i>PLoS ONE</i> , 2014, 9, e85732.   | 1.1 | 38        |
| 14 | Solution Structures of the Linear Leaderless Bacteriocins Enterocin 7A and 7B Resemble Carnocyclin A, a Circular Antimicrobial Peptide. <i>Biochemistry</i> , 2013, 52, 3987-3994.  | 1.2 | 34        |
| 15 | The 3D Structure of Thuricin CD, a Two-Component Bacteriocin with Cysteine Sulfur to $\hat{\pm}$ -Carbon Cross-links. <i>Journal of the American Chemical Society</i> , 2011, 133, 7680-7683.   | 6.6 | 52        |
| 16 | How the 1D $\hat{\pm}$ NOESY suppresses solvent signal in metabolomics NMR spectroscopy: An examination of the pulse sequence components and evolution. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2011, 38A, 197-220. | 0.2 | 139       |
| 17 | The 3D Solution Structure of Thuricinâ€¦H, a Bacteriocin with Four Sulfur to $\hat{\pm}$ -Carbon Crosslinks. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8718-8721.  | 7.2 | 61        |
| 18 | Catalytic Proficiency of Ubiquitin Conjugation Enzymes: Balancing $pK_a$ Suppression, Entropy, and Electrostatics. <i>Journal of the American Chemical Society</i> , 2010, 132, 17775-17786.  | 6.6 | 25        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | 2â€²-Methyl and 1â€²-xylosyl derivatives of 2â€²-hydroxyflexixanthin are major carotenoids of Hymenobacter species. <i>Tetrahedron Letters</i> , 2009, 50, 2656-2660.   | 0.7 | 7         |
| 20 | Chapter 2 Recent Advances in Solvent Suppression for Solution NMR: A Practical Reference. <i>Annual Reports on NMR Spectroscopy</i> , 2009, 66, 33-76.  | 0.7 | 43        |
| 21 | Acute dextro-amphetamine administration does not alter brain myo-inositol levels in humans and animals: MRS investigations at 3 and 18.8T. <i>Neuroscience Research</i> , 2008, 61, 351-359.  | 1.0 | 3         |
| 22 | Unlike lithium, anticonvulsants and antidepressants do not alter rat brain myo-inositol. <i>NeuroReport</i> , 2007, 18, 1595-1598.  | 0.6 | 6         |
| 23 | NMR Assessment of Me2SO in Decellularized Cryopreserved Aortic Valve Conduits. <i>Journal of Surgical Research</i> , 2007, 141, 60-67.  | 0.8 | 2         |
| 24 | Structures of the 2:1 adducts of benzyne with 2-methylanisole and benzene. <i>Canadian Journal of Chemistry</i> , 2007, 85, 461-465.  | 0.6 | 0         |
| 25 | Anisotropic diffusion of metabolites in peripheral nerve using diffusion weighted magnetic resonance spectroscopy at ultra-high field. <i>Journal of Magnetic Resonance</i> , 2007, 184, 20-28.   | 1.2 | 19        |
| 26 | Lithium alters regional rat brain myo-inositol at 2 and 4 weeks: an ex-vivo magnetic resonance spectroscopy study at 18.8â€‰T. <i>NeuroReport</i> , 2006, 17, 1323-1326.  | 0.6 | 11        |
| 27 | Solution structure of Cu6 metallothionein from the fungus <i>Neurospora crassa</i> . <i>FEBS Journal</i> , 2004, 271, 4213-4221.  | 0.2 | 37        |
| 28 | Structure of Subtilisin A, a Cyclic Antimicrobial Peptide from <i>Bacillus subtilis</i> with Unusual Sulfur to Î±-Carbon Cross-Links: Formation and Reduction of Î±-Thio-Î±-Amino Acid Derivatives. <i>Biochemistry</i> , 2004, 43, 3385-3395.                                | 1.2 | 185       |
| 29 | Structure of Subtilisin A, an Antimicrobial Peptide from <i>Bacillus subtilis</i> with Unusual Posttranslational Modifications Linking Cysteine Sulfurs to Î±-Carbons of Phenylalanine and Threonine. <i>Journal of the American Chemical Society</i> , 2003, 125, 4726-4727. | 6.6 | 111       |
| 30 | Energetics of the Induced Structural Change in a Ca <sup>2+</sup> Regulatory Protein: Ca <sup>2+</sup> and Troponin I Peptide Binding to the E41A Mutant of the N-Domain of Skeletal Troponin C. <i>Biochemistry</i> , 2000, 39, 12731-12738.                                 | 1.2 | 37        |
| 31 | The NMR angle on troponin C. <i>Biochemistry and Cell Biology</i> , 1998, 76, 302-312.  | 0.9 | 40        |
| 32 | Structure and Interaction Site of the Regulatory Domain of Troponin-C When Complexed with the 96â€²148 Region of Troponin-I. <i>Biochemistry</i> , 1998, 37, 12419-12430.   | 1.2 | 56        |
| 33 | Interaction of the Second Binding Region of Troponin I with the Regulatory Domain of Skeletal Muscle Troponin C as Determined by NMR Spectroscopy. <i>Journal of Biological Chemistry</i> , 1997, 272, 28494-28500.   | 1.6 | 95        |
| 34 | Peptide Aldehyde Inhibitors of Hepatitis A Virus 3C Proteinase. <i>Biochemistry</i> , 1995, 34, 8172-8179.  | 1.2 | 67        |
| 35 | Pharmacometabolomics: A New Horizon in Personalized Medicine. , 0, , .  |     | 7         |