

Dean A Myles

List of Publications by Year in descending order

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70
papers

2,600
citations

230014

27
h-index

223390

49
g-index

73
all docs

73
docs citations

73
times ranked

3418
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | When x-rays alter the course of your experiments*. Journal of Physics Condensed Matter, 2021, 33, 423002. | 0.7 | 12 |
| 2 | De novo design of a homo-trimeric amantadine-binding protein. ELife, 2019, 8, . | 2.8 | 18 |
| 3 | Understanding Multiscale Structural Changes During Dilute Acid Pretreatment of Switchgrass and Poplar. ACS Sustainable Chemistry and Engineering, 2017, 5, 426-435. | 3.2 | 29 |
| 4 | Periplasmic Binding Protein Dimer Has a Second Allosteric Event Tied to Ligand Binding. Biochemistry, 2017, 56, 5328-5337. | 1.2 | 14 |
| 5 | Biomembranes research using thermal and cold neutrons. Chemistry and Physics of Lipids, 2015, 192, 41-50. | 1.5 | 6 |
| 6 | Mechanical Properties of Nanoscopic Lipid Domains. Journal of the American Chemical Society, 2015, 137, 15772-15780. | 6.6 | 108 |
| 7 | Neutron structure of the cyclic glucose-bound xylose isomerase E186Q mutant. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 414-420. | 2.5 | 17 |
| 8 | The Bio-SANS instrument at the High Flux Isotope Reactor of Oak Ridge National Laboratory. Journal of Applied Crystallography, 2014, 47, 1238-1246. | 1.9 | 83 |
| 9 | Multi-scale applications of neutron scattering and imaging. , 2014, , . | | 0 |
| 10 | Duplication of Genes in an ATP-binding Cassette Transport System Increases Dynamic Range While Maintaining Ligand Specificity. Journal of Biological Chemistry, 2014, 289, 30090-30100. | 1.6 | 14 |
| 11 | Crystallization and preliminary X-ray diffraction analysis of <i>Hypocrea jecorina</i> Cel7A in two new crystal forms. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 773-776. | 0.4 | 2 |
| 12 | Molecular details of ligand selectivity determinants in a promiscuous β -glucan periplasmic binding protein. BMC Structural Biology, 2013, 13, 18. | 2.3 | 8 |
| 13 | The IMAGINE instrument: first neutron protein structure and new capabilities for neutron macromolecular crystallography. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 2157-2160. | 2.5 | 73 |
| 14 | Neutron Scattering Techniques and Applications in Structural Biology. Current Protocols in Protein Science, 2013, 72, Unit17.16. | 2.8 | 18 |
| 15 | The 40m general purpose small-angle neutron scattering instrument at Oak Ridge National Laboratory. Journal of Applied Crystallography, 2012, 45, 990-998. | 1.9 | 89 |
| 16 | Rapid visualization of hydrogen positions in protein neutron crystallographic structures. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 35-41. | 2.5 | 26 |
| 17 | Neutron protein crystallography at ultra-low (<15K) temperatures. Journal of Applied Crystallography, 2012, 45, 686-692. | 1.9 | 23 |
| 18 | Redox-Promoting Protein Motions in Rubredoxin. Journal of Physical Chemistry B, 2011, 115, 8925-8936. | 1.2 | 14 |

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|----|---|-----|-----------|
| 19 | The Neutron Structure of the Formyl Peptide Receptor Antagonist Cyclosporin H (CsH) Unambiguously Determines the Solvent and Hydrogen-Bonding Structure for Crystal Form II. <i>Journal of Chemical Crystallography</i> , 2011, 41, 470-480. | 0.5 | 6 |
| 20 | Scattering functions of Platonic solids. <i>Journal of Applied Crystallography</i> , 2011, 44, 545-557. | 1.9 | 26 |
| 21 | Unambiguous determination of H-atom positions: comparing results from neutron and high-resolution X-ray crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 558-567. | 2.5 | 40 |
| 22 | SANS study of cellulose extracted from switchgrass. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 1189-1193. | 2.5 | 29 |
| 23 | The Structure of Sindbis Virus Produced from Vertebrate and Invertebrate Hosts as Determined by Small-Angle Neutron Scattering. <i>Journal of Virology</i> , 2010, 84, 5270-5276. | 1.5 | 25 |
| 24 | Breakdown of Cell Wall Nanostructure in Dilute Acid Pretreated Biomass. <i>Biomacromolecules</i> , 2010, 11, 2329-2335. | 2.6 | 143 |
| 25 | A preliminary neutron crystallographic study of proteinase K at pD 6.5. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 184-187. | 0.7 | 2 |
| 26 | Characterization of image plates for neutron diffraction. <i>Journal of Applied Crystallography</i> , 2009, 42, 749-757. | 1.9 | 19 |
| 27 | Deuterium Labeling for Neutron Structure-Function-Dynamics Analysis. <i>Methods in Molecular Biology</i> , 2009, 544, 281-292. | 0.4 | 55 |
| 28 | Preliminary neutron crystallographic analysis of selectively CH ₃ -protonated deuterated rubredoxin from <i>Pyrococcus furiosus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 537-540. | 0.7 | 13 |
| 29 | New sources and instrumentation for neutrons in biology. <i>Chemical Physics</i> , 2008, 345, 133-151. | 0.9 | 53 |
| 30 | Quantum model of catalysis based on a mobile proton revealed by subatomic x-ray and neutron diffraction studies of h-aldose reductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1844-1848. | 3.3 | 74 |
| 31 | Production and X-ray crystallographic analysis of fully deuterated human carbonic anhydrase II. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 6-9. | 0.7 | 23 |
| 32 | Bio-SANS—A dedicated facility for neutron structural biology at Oak Ridge National Laboratory. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 880-882. | 1.3 | 62 |
| 33 | The Spallation Neutron Source in Oak Ridge: A powerful tool for materials research. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 955-960. | 1.3 | 163 |
| 34 | Comparison of hydrogen determination with X-ray and neutron crystallography in a human aldose reductase inhibitor complex. <i>European Biophysics Journal</i> , 2006, 35, 577-583. | 1.2 | 27 |
| 35 | X-ray, neutron and NMR studies of the catalytic mechanism of aspartic proteinases. <i>European Biophysics Journal</i> , 2006, 35, 559-566. | 1.2 | 48 |
| 36 | A quasi-Laue neutron crystallographic study of d-xylose isomerase. <i>European Biophysics Journal</i> , 2006, 35, 601-609. | 1.2 | 28 |

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|----|---|-----|-----------|
| 37 | Optimizing crystal volume for neutron diffraction: D-xylose isomerase. <i>European Biophysics Journal</i> , 2006, 35, 621-632. | 1.2 | 12 |
| 38 | Neutron Laue macromolecular crystallography. <i>European Biophysics Journal</i> , 2006, 35, 611-620. | 1.2 | 25 |
| 39 | Neutron protein crystallography: current status and a brighter future. <i>Current Opinion in Structural Biology</i> , 2006, 16, 630-637. | 2.6 | 57 |
| 40 | Production and X-ray crystallographic analysis of fully deuterated cytochrome P450cam. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 539-544. | 2.5 | 29 |
| 41 | Preliminary neutron diffraction studies of <i>Escherichia coli</i> dihydrofolate reductase bound to the anticancer drug methotrexate. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 574-579. | 2.5 | 8 |
| 42 | High-resolution neutron protein crystallography with radically small crystal volumes: application of perdeuteration to human aldose reductase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 1413-1417. | 2.5 | 61 |
| 43 | Conceptual design of a macromolecular neutron diffractometer (MaNDi) for the SNS. <i>Journal of Applied Crystallography</i> , 2005, 38, 964-974. | 1.9 | 31 |
| 44 | Neutron diffraction investigations of l- and d-alanine at different temperatures: the search for structural evidence for parity violation. <i>New Journal of Chemistry</i> , 2005, 29, 1318. | 1.4 | 73 |
| 45 | The 15-K neutron structure of saccharide-free concanavalin A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16405-16410. | 3.3 | 68 |
| 46 | Production and preliminary analysis of perdeuterated yeast inorganic pyrophosphatase crystals suitable for neutron diffraction. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 606-609. | 2.5 | 8 |
| 47 | Structural Stability and Dynamics of Hydrogenated and Perdeuterated Cytochrome P450cam (CYP101). <i>Biochemistry</i> , 2004, 43, 8744-8753. | 1.2 | 46 |
| 48 | Atomic resolution analysis of the catalytic site of an aspartic proteinase and an unexpected mode of binding by short peptides. <i>Protein Science</i> , 2003, 12, 1741-1749. | 3.1 | 29 |
| 49 | Crystals of trypsin suitable for high-resolution neutron Laue diffraction studies. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 136-138. | 2.5 | 6 |
| 50 | Structural characterization of crystals of β -glycine during anomalous electrical behaviour. <i>Acta Crystallographica Section B: Structural Science</i> , 2002, 58, 728-733. | 1.8 | 70 |
| 51 | The three-dimensional structure of calcium-depleted human C-reactive protein from perfectly twinned crystals. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 992-1001. | 2.5 | 25 |
| 52 | LADI: A dedicated facility for biological crystallography. <i>Neutron News</i> , 2001, 12, 38-43. | 0.1 | 0 |
| 53 | A Neutron Laue Diffraction Study of Endothiapepsin: Implications for the Aspartic Proteinase Mechanism. <i>Biochemistry</i> , 2001, 40, 13149-13157. | 1.2 | 109 |
| 54 | Rapid neutron-diffraction data collection for hydrogen-bonding studies: application of the Laue diffractometer (LADI) to the case study zinc (tris)thiourea sulfate. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2001, 57, 429-434. | 0.3 | 21 |

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|----|---|-----|-----------|
| 55 | Hydrogen-bond network in cyclodecaamylose hydrate at 20â€¦K; neutron diffraction study of novel structural motifs band-flip and kink in β -D-glucoside oligosaccharides. <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 833-841. | 1.8 | 14 |
| 56 | Neutron structure of monoclinic lysozyme crystals produced in microgravity. <i>Journal of Crystal Growth</i> , 2001, 232, 317-325. | 0.7 | 13 |
| 57 | Protons in proteins discussed in Grenoble. <i>Neutron News</i> , 2001, 12, 2-3. | 0.1 | 0 |
| 58 | A preliminary neutron Laue diffraction study of the aspartic proteinase endothiapepsin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 246-248. | 2.5 | 11 |
| 59 | Ferroelastic phase transition in Cs ₃ Bi ₂ I ₉ : A neutron diffraction study. <i>Physical Review B</i> , 2000, 61, 3857-3862. | 1.1 | 17 |
| 60 | Neutron detection with imaging plates Part I. Image storage and readout. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 424, 26-33. | 0.7 | 12 |
| 61 | Neutron Laue diffraction from the magnetic structure of 4% Ga-doped FeGe ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 177-181, 1395-1396. | 1.0 | 1 |
| 62 | Neutron Laue diffraction in macromolecular crystallography. <i>Physica B: Condensed Matter</i> , 1997, 241-243, 1122-1130. | 1.3 | 32 |
| 63 | Structure Solution of C-Reactive Proteins: Molecular Replacement With a Twist. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1996, 52, 1049-1057. | 2.5 | 11 |
| 64 | Three dimensional structure of human C-reactive protein. <i>Nature Structural and Molecular Biology</i> , 1996, 3, 346-354. | 3.6 | 308 |
| 65 | Structure of porcine aldehyde reductase holoenzyme. <i>Nature Structural Biology</i> , 1995, 2, 687-692. | 9.7 | 54 |
| 66 | Crystallization and Preliminary X-ray Analysis of C-reactive Protein from Rat. <i>Journal of Molecular Biology</i> , 1994, 235, 767-771. | 2.0 | 6 |
| 67 | Structure of bovine β -crystallin at 150 K. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 2677-2682. | 1.7 | 11 |
| 68 | Preliminary crystallographic study of C-reactive protein from <i>Limulus polyphemus</i> . <i>Journal of Molecular Biology</i> , 1990, 213, 223-225. | 2.0 | 10 |
| 69 | Rotation function studies of human C-reactive protein. <i>Journal of Molecular Biology</i> , 1990, 216, 491-496. | 2.0 | 18 |
| 70 | Preliminary X-ray study of crystals of human C-reactive protein. <i>Journal of Molecular Biology</i> , 1987, 196, 741-742. | 2.0 | 13 |