## Alexander McPherson

List of Publications by Year in descending order

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140 papers

6,983 citations

45 h-index

61687

<sup>73587</sup> **79** 

g-index

144 all docs

144 docs citations

times ranked

144

6568 citing authors

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Structures of two novel crystal forms of Aspergillus oryzae alpha amylase (taka-amylase). Journal of Bioscience and Bioengineering, 2021, 131, 605-612.  | 1.1 | 4         |
| 2  | Atomic-Force Microscopy (AFM) Investigation of Viruses. , 2021, , 218-232.   |     | 0         |
| 3  | Structures of additional crystal forms of Satellite tobacco mosaic virus grown from a variety of salts. Acta Crystallographica Section F, Structural Biology Communications, 2021, 77, 473-483.                                  | 0.4 | 2         |
| 4  | Crystal structure of a proteolytically cleaved, amino terminal domain of apolipoprotein E3. Biochemical and Biophysical Research Communications, 2020, 525, 57-60.   | 1.0 | 2         |
| 5  | Binding of benzoic acid and anions within the cupin domains of the vicilin protein canavalin from jack bean (Canavalia ensiformis): Crystal structures. Biochemical and Biophysical Research Communications, 2020, 524, 268-271. | 1.0 | 2         |
| 6  | The Crystal Structures of Thermomyces (Humicola) Lanuginosa Lipase in Complex with Enzymatic Reactants. Current Enzyme Inhibition, 2020, 16, 199-213.  | 0.3 | 5         |
| 7  | pH and Redox Induced Color Changes in Protein Crystals Suffused with Dyes. Crystals, 2019, 9, 126.   | 1.0 | 1         |
| 8  | The structure of bovine Î <sup>2</sup> -lactoglobulin in crystals grown at pH 3.8 exhibiting novel threefold twinning. Acta Crystallographica Section F, Structural Biology Communications, 2019, 75, 640-645.                   | 0.4 | 2         |
| 9  | The crystal structure of the $\hat{l}^2$ subunit of luteinizing hormone and a model for the intact hormone. Current Research in Structural Biology, 2019, 1, 1-5.  | 1.1 | 1         |
| 10 | The structure of an iron-containing alcohol dehydrogenase from a hyperthermophilic archaeon in two chemical states. Acta Crystallographica Section F, Structural Biology Communications, 2019, 75, 217-226.                      | 0.4 | 7         |
| 11 | Lattice Interactions in Crystals of Soybean Trypsin Inhibitor (Kunitz) Produced by Inclusion of 1,5-Disulfonylnaphthalene. Crystal Growth and Design, 2019, 19, 2963-2969.   | 1.4 | 4         |
| 12 | The structure of human apolipoprotein C-1 in four different crystal forms. Journal of Lipid Research, 2019, 60, 400-411.   | 2.0 | 9         |
| 13 | The X-ray crystal structure of human endothelin 1, a polypeptide hormone regulator of blood pressure. Acta Crystallographica Section F, Structural Biology Communications, 2019, 75, 47-53.                                      | 0.4 | 5         |
| 14 | Penetration of dyes into protein crystals. Acta Crystallographica Section F, Structural Biology Communications, 2019, 75, 132-140.   | 0.4 | 3         |
| 15 | Investigation into the binding of dyes within protein crystals. Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 593-602.  | 0.4 | 5         |
| 16 | Protein Crystallization. Methods in Molecular Biology, 2017, 1607, 17-50.  | 0.4 | 37        |
| 17 | The structure of the Pfp1 protease from the hyperthermophilic archaeonThermococcus thioreducensin two crystal forms. Acta Crystallographica Section D: Structural Biology, 2017, 73, 749-756.                                    | 1.1 | 3         |
| 18 | A guide to the crystallographic analysis of icosahedral viruses. Crystallography Reviews, 2015, 21, 3-56.  | 0.4 | 6         |

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|----|--|-----|-----------|
| 19 | Introduction to protein crystallization. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 2-20.  | 0.4 | 291       |
| 20 | Optimization of crystallization conditions for biological macromolecules. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 1445-1467.                                | 0.4 | 84        |
| 21 | Mechanisms, kinetics, impurities and defects: consequences in macromolecular crystallization. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 384-403.              | 0.4 | 22        |
| 22 | <i>Satellite tobacco mosaic virus</i> refined to 1.4â€Ã resolution. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 2316-2330.   | 2.5 | 14        |
| 23 | The crystallographic structure of Panicum Mosaic Virus (PMV). Journal of Structural Biology, 2013, 181, 37-52.   | 1.3 | 13        |
| 24 | Morphogenesis of Mimivirus and Its Viral Factories: an Atomic Force Microscopy Study of Infected Cells. Journal of Virology, 2013, 87, 11200-11213.  | 1.5 | 43        |
| 25 | An atomic force microscopy investigation of cyanophage structure. Micron, 2012, 43, 1336-1342.   | 1.1 | 9         |
| 26 | A model for the structure of satellite tobacco mosaic virus. Journal of Structural Biology, 2012, 180, 110-116.  | 1.3 | 37        |
| 27 | Tyrosine Microcrystals Produced by Digestion of Proteins with Pancreatic Enzymes. Crystal Growth and Design, 2012, 12, 3594-3602.  | 1.4 | 2         |
| 28 | Atomic Force Microscopy in Imaging of Viruses and Virus-Infected Cells. Microbiology and Molecular Biology Reviews, 2011, 75, 268-285.   | 2.9 | 116       |
| 29 | Nanoâ€fibers produced by viral infection of amoeba visualized by atomic force microscopy. Biopolymers, 2011, 95, 234-239.  | 1.2 | 4         |
| 30 | Investigation of bacteriophage T4 by atomic force microscopy. Bacteriophage, 2011, 1, 165-173.   | 1.9 | 13        |
| 31 | Atomic Force Microscopy Investigation of Viruses. Methods in Molecular Biology, 2011, 736, 171-195.  | 0.4 | 13        |
| 32 | Atomic force microscopy investigation of the giant mimivirus. Virology, 2010, 404, 127-137.  | 1.1 | 73        |
| 33 | Structure of a crystal form of human methemoglobin indicative of fiber formation. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 1316-1322.                               | 2.5 | 2         |
| 34 | Structure of bovine pancreatic ribonuclease complexed with uridine 5′-monophosphate at 1.60â€Ã resolution. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 113-120. | 0.7 | 3         |
| 35 | Biophysical and atomic force microscopy characterization of the RNA from satellite tobacco mosaic virus. Nucleic Acids Research, 2010, 38, 8284-8294.  | 6.5 | 18        |
| 36 | The Three-Dimensional Structure of Mimivirus. Intervirology, 2010, 53, 268-273.  | 1.2 | 58        |

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| 37 | Structural analysis of a Synechococcus myovirus S-CAM4 and infected cells by atomic force microscopy. Journal of General Virology, 2010, 91, 3095-3104.   | 1.3 | 10        |
| 38 | X-ray Crystallographic Analyses of Pig Pancreatic α-Amylase with Limit Dextrin, Oligosaccharide, and α-Cyclodextrin <sup>,</sup> . Biochemistry, 2010, 49, 3101-3115.                                 | 1.2 | 48        |
| 39 | Structural Studies of the Giant Mimivirus. PLoS Biology, 2009, 7, e1000092.   | 2.6 | 209       |
| 40 | High-resolution structure of proteinase K cocrystallized with digalacturonic acid. Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 192-198.                            | 0.7 | 5         |
| 41 | Structure of pig heart citrate synthase at 1.78â€Ã resolution. Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 430-434.  | 0.7 | 16        |
| 42 | Crystal structure and nanoanatomy of the E. coli RecA protein. FASEB Journal, 2008, 22, 591.7.  | 0.2 | 0         |
| 43 | Mutation in the Glycosylated Gag Protein of Murine Leukemia Virus Results in Reduced In Vivo<br>Infectivity and a Novel Defect in Viral Budding or Release. Journal of Virology, 2007, 81, 3685-3692. | 1.5 | 33        |
| 44 | Operator-assisted harvesting of protein crystals using a universal micromanipulation robot. Journal of Applied Crystallography, 2007, 40, 539-545.  | 1.9 | 26        |
| 45 | A novel strategy for the crystallization of proteins: X-ray diffraction validation. Acta<br>Crystallographica Section D: Biological Crystallography, 2007, 63, 310-318.                               | 2.5 | 29        |
| 46 | A new crystal form of bovine pancreatic RNase A in complex with 2′-deoxyguanosine-5′-monophosphate. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 728-733.           | 0.7 | 7         |
| 47 | Development of an alternative approach to protein crystallization. Journal of Structural and Functional Genomics, 2007, 8, 193-198.   | 1.2 | 6         |
| 48 | Searching for silver bullets: An alternative strategy for crystallizing macromolecules. Journal of Structural Biology, 2006, 156, 387-406.  | 1.3 | 156       |
| 49 | Atomic force microscopy investigation of Turnip Yellow Mosaic Virus capsid disruption and RNA extrusion. Virology, 2006, 352, 329-337.  | 1.1 | 29        |
| 50 | Molecular Dynamics Simulations of the Complete Satellite Tobacco Mosaic Virus. Structure, 2006, 14, 437-449.  | 1.6 | 390       |
| 51 | Identification of DNA and RNA from retroviruses using ribonuclease A. Scanning, 2006, 28, 278-281.  | 0.7 | 14        |
| 52 | Unraveling the Architecture of Viruses by High-Resolution Atomic Force Microscopy. , 2005, 292, 085-108.  |     | 15        |
| 53 | The RNA of turnip yellow mosaic virus exhibits icosahedral order. Virology, 2005, 334, 245-254.   | 1.1 | 30        |
| 54 | Micelle formation and crystallization as paradigms for virus assembly. BioEssays, 2005, 27, 447-458.  | 1.2 | 76        |

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| 57 | Four crystal forms of a Bence-Jones protein. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 79-82.  | 0.7 | 3         |
| 58 | Investigation by Atomic Force Microscopy of the Structure of Ty3 Retrotransposon Particles. Journal of Virology, 2005, 79, 8032-8045.   | 1.5 | 27        |
| 59 | Crystallographic Structure of the T=1 Particle of Brome Mosaic Virus. Journal of Molecular Biology, 2005, 346, 815-831.   | 2.0 | 42        |
| 60 | Atomic force microscopy investigation of a chlorella virus, PBCV-1. Journal of Structural Biology, 2005, 149, 256-263.  | 1.3 | 38        |
| 61 | Protein crystallization in the structural genomics era. Journal of Structural and Functional Genomics, 2004, 5, 3-12.   | 1.2 | 32        |
| 62 | Crystals of the $\hat{l}^2$ -subunit of bovine luteinizing hormone and indicators for the involvement of proteolysis in protein crystallization. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 872-877. | 2.5 | 3         |
| 63 | Introduction to protein crystallization. Methods, 2004, 34, 254-265.  | 1.9 | 214       |
| 64 | Macromolecular crystallization in the structural genomics era. Journal of Structural Biology, 2003, 142, 1-2.   | 1.3 | 20        |
| 65 | Macromolecular crystal growth as revealed by atomic force microscopy. Journal of Structural Biology, 2003, 142, 32-46.  | 1.3 | 50        |
| 66 | Rapid Visualization at High Resolution of Pathogens by Atomic Force Microscopy. American Journal of Pathology, 2002, 160, 1959-1966.  | 1.9 | 55        |
| 67 | The crystallographic structure of brome mosaic virus. Journal of Molecular Biology, 2002, 317, 95-108.  | 2.0 | 138       |
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| 69 | The structure of tomato aspermy virus by X-ray crystallography. Journal of Structural Biology, 2002, 139, 90-102.   | 1.3 | 26        |
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| 71 | X-ray diffraction and atomic force microscopy analysis of twinned crystals: rhombohedral canavalin.<br>Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 829-839.   | 2.5 | 20        |
| 72 | Atomic force microscopy applications in macromolecular crystallography. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1053-1060.  | 2.5 | 49        |

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| <b>7</b> 3 | Self-repair of biological fibers catalyzed by the surface of a virus crystal. Proteins: Structure, Function and Bioinformatics, 2001, 44, 392-396.                                    | 1.5  | 5         |
| 74         | The liquid protein phase in crystallization: a case studyâ€"intact immunoglobulins. Journal of Crystal Growth, 2001, 232, 30-39.  | 0.7  | 69        |
| <b>7</b> 5 | The influence of precipitant concentration on macromolecular crystal growth mechanisms. Journal of Crystal Growth, 2001, 232, 114-118.  | 0.7  | 17        |
| 76         | Crystallization of Brome Mosaic Virus and T = $1$ Brome Mosaic Virus Particles Following a Structural Transition. Virology, 2001, 286, 290-303.                                       | 1.1  | 51        |
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| 79         | Satellite tobacco mosaic virus RNA: structure and implications for assembly. Current Opinion in Structural Biology, 2001, 11, 59-65.  | 2.6  | 72        |
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| 81         | In situX-ray crystallography. Journal of Applied Crystallography, 2000, 33, 397-400.  | 1.9  | 26        |
| 82         | The refined structure of canavalin from jack bean in two crystal forms at 2.1 and 2.0â€Ã resolution. Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 411-420. | 2.5  | 50        |
| 83         | Atomic force microscopy studies of icosahedral virus crystal growth. Colloids and Surfaces B: Biointerfaces, 2000, 19, 333-346.   | 2.5  | 24        |
| 84         | ISS: A science classroom for America. AIP Conference Proceedings, 2000, , .   | 0.3  | 1         |
| 85         | An observable protein crystal growth apparatus for studying the effects of microgravity on protein crystallization. AIP Conference Proceedings, 2000, , .                             | 0.3  | O         |
| 86         | Refined structure of desmodium yellow mottle tymovirus at 2.7 $\tilde{A}$ resolution 1 1Edited by T. Richmond. Journal of Molecular Biology, 2000, 301, 625-642.                      | 2.0  | 31        |
| 87         | Chimeric Human–Simian Anti-CD4 Antibodies Form Crystalline High Symmetry Particles. Journal of Structural Biology, 2000, 131, 108-115.  | 1.3  | 15        |
| 88         | Atomic Force Microscopy in the Study of Macromolecular Crystal Growth. Annual Review of Biophysics and Biomolecular Structure, 2000, 29, 361-410.                                     | 18.3 | 105       |
| 89         | The advancement and structure of growth steps on thaumatin crystals visualized by atomic force microscopy at molecular resolution. Surface Science, 1999, 440, 69-80.                 | 0.8  | 38        |
| 90         | Surface Processes in the Crystallization of Turnip Yellow Mosaic Virus Visualized by Atomic Force Microscopy. Journal of Structural Biology, 1999, 127, 35-43.                        | 1.3  | 58        |

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| 95  | The Crystallographic Structure of the Subtilisin Protease from Penicillium cyclopium,. Biochemistry, 1997, 36, 6597-6604.  | 1.2 | 16        |
| 96  | Refined Structure of an Intact IgG2a Monoclonal Antibodyâ€,‡. Biochemistry, 1997, 36, 1581-1597.   | 1.2 | 435       |
| 97  | Atomic Force Microscopy Studies of Living Cells: Visualization of Motility, Division, Aggregation, Transformation, and Apoptosis. Journal of Structural Biology, 1997, 120, 180-191. | 1.3 | 65        |
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| 100 | Crystallization of biological macromolecules from flash frozen samples on the Russian Space Station Mir., 1996, 52, 449-458.   |     | 26        |
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| 103 | Macromolecular Crystal Growth in Microgravity. Crystallography Reviews, 1996, 6, 157-305.  | 0.4 | 42        |
| 104 | Preliminary X-ray diffraction analysis of crystals of turnip yellow mosaic virus (TYMV). Proteins: Structure, Function and Bioinformatics, 1995, 21, 78-81.                          | 1.5 | 16        |
| 105 | Preliminary X-ray diffraction analysis of crystals of tomato aspermy virus (TAV). Proteins: Structure, Function and Bioinformatics, 1995, 21, 265-267.                               | 1.5 | 2         |
| 106 | Crystallization of intact monoclonal antibodies. Proteins: Structure, Function and Bioinformatics, 1995, 23, 285-289.  | 1.5 | 51        |
| 107 | The structure of satellite panicum mosaic virus at 1.9 Ã resolution. Nature Structural Biology, 1995, 2, 882-890.  | 9.7 | 57        |
| 108 | Structural Comparison of the Plant Satellite Viruses. Virology, 1995, 214, 571-583.  | 1.1 | 45        |

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| 110 | Refined Molecular Structure of Pig Pancreatic α-Amylase at 2·1 à Resolution. Journal of Molecular Biology, 1994, 235, 1560-1584.  | 2.0  | 166       |
| 111 | Crystallization and Preliminary X-ray Analysis of Human Plasma Apolipoprotein C-I. Journal of Molecular Biology, 1994, 236, 382-384.  | 2.0  | 15        |
| 112 | Characterization of Crystals of Satellite Panicum Mosaic Virus. Journal of Molecular Biology, 1994, 238, 849-851.   | 2.0  | 8         |
| 113 | Light scattering investigations of protein and virus crystal growth: ferritin, apoferritin and satellite tobacco mosaic virus. Journal of Crystal Growth, 1993, 128, 1232-1235.             | 0.7  | 61        |
| 114 | Crystallization of satellite tobacco mosaic virus I. Nucleation phenomena. Journal of Crystal Growth, 1993, 126, 544-554.   | 0.7  | 57        |
| 115 | Double-helical RNA in satellite tobacco mosaic virus. Nature, 1993, 361, 179-182.   | 13.7 | 102       |
| 116 | Three-dimensional Structure of Satellite Tobacco Mosaic Virus at 2·9 à Resolution. Journal of Molecular Biology, 1993, 231, 375-391.  | 2.0  | 62        |
| 117 | PCR cloning of the full-length cDNA for the seed protein canavalin from the jack bean plant, Canavalis ensiformis. Plant Molecular Biology, 1992, 18, 147-149.                              | 2.0  | 7         |
| 118 | Macromolecular crystal growth experiments on international microgravity laboratory – 1. Protein Science, 1992, 1, 1254-1268.  | 3.1  | 85        |
| 119 | The three-dimensional structure of an intact monoclonal antibody for canine lymphoma. Nature, 1992, 360, 369-372.   | 13.7 | 236       |
| 120 | Two approaches to the rapid screening of crystallization conditions. Journal of Crystal Growth, 1992, 122, 161-167.   | 0.7  | 55        |
| 121 | A brief history of protein crystal growth. Journal of Crystal Growth, 1991, 110, 1-10.  | 0.7  | 80        |
| 122 | Current approaches to macromolecular crystallization. FEBS Journal, 1990, 189, 1-23.  | 0.2  | 313       |
| 123 | Preliminary Crystallographic Analysis of a Proteolytically Modified Form of E. coliSingle Stranded DNA Binding Protein. Journal of Biomolecular Structure and Dynamics, 1989, 6, 1071-1076. | 2.0  | 6         |
| 124 | Science in Pictures: Macromolecular Crystals. Scientific American, 1989, 260, 62-69.  | 1.0  | 68        |
| 125 | Preliminary analysis of crystals of satellite tobacco mosaic virus. Journal of Molecular Biology, 1989, 209, 323-325.   | 2.0  | 31        |
| 126 | Interactions of Biological Macromolecules Visualized by X-ray Crystallography. Crystallography Reviews, 1987, 1, 191-250.   | 0.4  | 9         |

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| 128 | The effects of neutral detergents on the crystallization of soluble proteins. Journal of Crystal Growth, 1986, 76, 547-553.                                       | 0.7 | 24        |
| 129 | A model for intracellular complexation between gene-5 protein and bacteriophage fd DNA. FEBS<br>Journal, 1985, 150, 287-296.                                      | 0.2 | 24        |
| 130 | Cooperative Interactions of the Gene 5 Protein. Journal of Biomolecular Structure and Dynamics, 1984, 2, 495-510.   | 2.0 | 20        |
| 131 | Biochemical and X-Ray Diffraction Analysis of Concanavalin B Crystals from Jack Bean. Plant Physiology, 1984, 76, 175-183.  | 2.3 | 21        |
| 132 | Crystallization of $\hat{l}\pm 1$ -acid glycoprotein. Biochemical and Biophysical Research Communications, 1984, 124, 619-624.                                    | 1.0 | 19        |
| 133 | Biochemical Characterization of Canavalin, the Major Storage Protein of Jack Bean. Plant Physiology, 1982, 70, 1199-1209.   | 2.3 | 50        |
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| 135 | Identification of canavalin as a proteolytically modified form of Jack bean α-d-mannosidase.<br>Phytochemistry, 1980, 19, 957-959.                                | 1.4 | 11        |
| 136 | The Growth and Preliminary Investigation of Protein and Nucleic Acid Crystals for X-ray Diffraction Analysis. Methods of Biochemical Analysis, 1976, 23, 249-345. | 0.2 | 187       |
| 137 | Preliminary structure analysis of canavalin from Jack Bean. Archives of Biochemistry and Biophysics, 1975, 169, 650-661.  | 1.4 | 41        |
| 138 | Crystallographic study of beef liver catalase. Archives of Biochemistry and Biophysics, 1973, 157, 23-27.   | 1.4 | 25        |
| 139 | Preliminary study of B. subtilis alpha-amylase crystals by electron microscopy and optical diffraction.<br>Journal of Ultrastructure Research, 1973, 44, 75-84.   | 1.4 | 9         |
| 140 | X-ray crystallographic analysis of swine pancreas α-amylase. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1972, 285, 493-497.                         | 1.7 | 18        |