# Alex C Hannon

List of Publications by Year
in descending order



| 132 | 4,015 | 109321 | 144013 |
|---|---|---|---|
| papers | citations | 35 h-index | 57 g-index |

| 138 | 138 | 138 | 3594 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Structures of Uncharacterised Polymorphs of Gallium Oxide from Total Neutron Diffraction. Chemistry - A European Journal, 2013, 19, 2803-2813. | 3.3 | 316 |
| 2 | Results on disordered materials from the GEneral Materials diffractometer, GEM, at ISIS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 551, 88-107. | 1.6 | 235 |
| 3 | Boroxol groups in vitreous boron oxide: new evidence from neutron diffraction and inelastic neutron scattering studies. Journal of Non-Crystalline Solids, 1994, 177, 299-316. | 3.1 | 144 |
| 4 | Floppy Modes in Crystalline and Amorphous Silicates. Physical Review Letters, 1997, 78, 1070-1073. | 7.8 | 123 |
| 5 | Voronoi analysis of the structure of Cuâ€“Zr and Niâ€“Zr metallic glasses. Intermetallics, 2006, 14, 893-897. | 3.9 | 108 |
| 6 | Characterization of Structural Disorder in Î³-Ga<sub>2</sub>O<sub>3</sub>. Journal of Physical Chemistry C, 2014, 118, 16188-16198. | 3.1 | 107 |
| 7 | Direct measurement of the Si-O bond length and orientational disorder in the high-temperature phase of cristobalite. Physics and Chemistry of Minerals, 1997, 24, 311-317. | 0.8 | 99 |
| 8 | Terminal Oxygens in Amorphous TeO<sub>2</sub>. Journal of Physical Chemistry Letters, 2013, 4, 2312-2316. | 4.6 | 88 |
| 9 | Surprises from a Simple Materialâ€”The Structure and Properties of Nickel Cyanide. Angewandte Chemie - International Edition, 2007, 46, 7116-7118. | 13.8 | 83 |
| 10 | The structure of aluminate glasses by neutron diffraction. Journal of Non-Crystalline Solids, 2000, 274, 102-109. | 3.1 | 81 |
| 11 | Intermediate range structure and low-energy dynamics of densified vitreous silica. Journal of Non-Crystalline Solids, 2001, 293-295, 389-393. | 3.1 | 77 |
| 12 | The structure of alkali silicate glasses. Journal of Non-Crystalline Solids, 1992, 150, 97-102. | 3.1 | 72 |
| 13 | Establishing the structure of GeS<sub>2</sub>at high pressures and temperatures: a combined approach using x-ray and neutron diffraction. Journal of Physics Condensed Matter, 2009, 21, 474217. | 1.8 | 59 |
| 14 | Beyond Bragg Scattering:Â The Structure of AgCN Determined from Total Neutron Diffraction. Inorganic Chemistry, 2002, 41, 1042-1044. | 4.0 | 58 |
| 15 | Structure and properties of densified silica glass: characterizing the order within disorder. NPG Asia Materials, 2020, 12, . | 7.9 | 57 |
| 16 | Peculiar suppression of the specific heat and boson peak intensity of densified SiO2 glass. Physica B: Condensed Matter, 1999, 263-264, 299-302. | 2.7 | 56 |
| 17 | CuCN:â€‰ A Polymorphic Material. Structure of One Form Determined from Total Neutron Diffraction. Inorganic Chemistry, 2002, 41, 4990-4992. | 4.0 | 56 |
| 18 | Structure of AuCN Determined from Total Neutron Diffraction. Inorganic Chemistry, 2003, 42, 4724-4730. | 4.0 | 56 |

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| 19 | Mixed Copper, Silver, and Gold Cyanides, (M<sub>x</sub>Mâ€²<sub>1â€“x</sub>)CN: Tailoring Chain Structures To Influence Physical Properties. Journal of the American Chemical Society, 2012, 134, 16387-16400. | 13.7 | 50 |
| 20 | A neutron and X-ray diffraction study of the structure of the LaP3O9 glass. Journal of Non-Crystalline Solids, 1998, 232-234, 44-50. | 3.1 | 49 |
| 21 | The change of the Geâ€“O coordination number in potassium germanate glasses probed by neutron diffraction with high real-space resolution. Journal of Non-Crystalline Solids, 1999, 248, 1-10. | 3.1 | 49 |
| 22 | Drastic Connectivity Change in High Refractive Index Lanthanum Niobate Glasses. Chemistry of Materials, 2013, 25, 3056-3061. | 6.7 | 48 |
| 23 | The role of Sb5+ in the structure of Sb2O3â€“B2O3 binary glassesâ€”an NMR and MÃ¶ssbauer spectroscopy study. Solid State Nuclear Magnetic Resonance, 2004, 26, 172-179. | 2.3 | 47 |
| 24 | Molecular dynamics simulations of calcium aluminate glasses. Journal of Non-Crystalline Solids, 2006, 352, 725-736. | 3.1 | 47 |
| 25 | Structure of vanadium tellurite glasses studied by neutron and X-ray diffraction. Solid State Communications, 2002, 123, 273-278. | 1.9 | 45 |
| 26 | Geâ^'O Coordination in Cesium Germanate Glasses. Journal of Physical Chemistry B, 2007, 111, 3342-3354. | 2.6 | 44 |
| 27 | Local and Average Structure in Zinc Cyanide: Toward an Understanding of the Atomistic Origin of Negative Thermal Expansion. Journal of the American Chemical Society, 2013, 135, 16478-16489. | 13.7 | 44 |
| 28 | The structure of tin silicate glasses. Journal of Non-Crystalline Solids, 1998, 232-234, 300-308. | 3.1 | 41 |
| 29 | The structure of pressure-compacted vitreous germania. Journal of Non-Crystalline Solids, 2001, 293-295, 769-775. | 3.1 | 41 |
| 30 | Local Order of Amorphous Zeolite Precursors from 29Si{H} CPMAS and 27Al and 23Na MQMAS NMR and Evidence for the Nature of Medium-Range Order from Neutron Diffraction. Journal of Physical Chemistry B, 2004, 108, 8208-8217. | 2.6 | 41 |
| 31 | A model for the Geâ€“O coordination in germanate glasses. Journal of Non-Crystalline Solids, 2007, 353, 1688-1694. | 3.1 | 40 |
| 32 | Ion transport regimes in chalcogenide and chalcohalide glasses: from the host to the cation-related network connectivity. Solid State Ionics, 2002, 154-155, 349-359. | 2.7 | 39 |
| 33 | Nanocrystalline Ceriumâ^'Bismuth Oxides: Synthesis, Structural Characterization, and Redox Properties. Chemistry of Materials, 2010, 22, 6191-6201. | 6.7 | 39 |
| 34 | High-temperature structure of K2Oâ€“TeO2 glasses. Journal of Non-Crystalline Solids, 1999, 256-257, 111-118. | 3.1 | 38 |
| 35 | Neutron scattering from PbOGeO2 glasses. Physica B: Condensed Matter, 1995, 213-214, 490-492. | 2.7 | 36 |
| 36 | Characterization of Hydrous Palladium Oxide: Implications for Low-Temperature Carbon Monoxide Oxidation. Journal of Physical Chemistry C, 2010, 114, 14164-14172. | 3.1 | 34 |

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| 37 | A dynamic correlation function for amorphous solids. Journal of Non-Crystalline Solids, 1992, 150, 239-244. | 3.1 | 33 |
| 38 | Structure of zinc phosphate glasses probed by neutron and X-ray diffraction of high resolving power and by reverse Monte Carlo simulations. Journal of Non-Crystalline Solids, 2005, 351, 1020-1031. | 3.1 | 33 |
| 39 | Structure of rare-earth phosphate glasses by X-ray and neutron diffraction. Journal of Non-Crystalline Solids, 2005, 351, 3179-3190. | 3.1 | 33 |
| 40 | Structures and negative thermal expansion properties of the one-dimensional cyanides, CuCN, AgCN and AuCN. Zeitschrift FÃ¼r Kristallographie, 2010, 225, . | 1.1 | 31 |
| 41 | Lone-pair distribution and plumbite network formation in high lead silicate glass, 80PbOÂ·20SiO2. Physical Chemistry Chemical Physics, 2013, 15, 8506. | 2.8 | 31 |
| 42 | Amorphous MoS3: clusters or chains? The structural evidence. Journal of Non-Crystalline Solids, 1998, 232-234, 434-439. | 3.1 | 30 |
| 43 | Aperiodicity, structure, and dynamics inNi(CN)2. Physical Review B, 2009, 80, . | 3.2 | 30 |
| 44 | The effect of composition in lead gallate glasses: a structural study. Journal of Non-Crystalline Solids, 1996, 196, 187-192. | 3.1 | 29 |
| 45 | Alkali silicate glasses: interpreting neutron diffraction results using the molecular dynamics simulation technique. Journal of Non-Crystalline Solids, 1996, 196, 233-238. | 3.1 | 29 |
| 46 | Neutron and X-ray Diffraction Study on the Structure of Ultraphosphate Glasses. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1997, 52, 259-269. | 1.5 | 29 |
| 47 | Crystal Structure of Li7P3S11Studied by Neutron and Synchrotron X-ray Powder Diffraction. Journal of the Physical Society of Japan, 2010, 79, 87-89. | 1.6 | 29 |
| 48 | Short-Range Order in KPO<sub>3</sub> Glass Studied by Neutron and X-Ray Diffraction. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1996, 51, 179-186. | 1.5 | 28 |
| 49 | The structure of potassium germanate glasses â€“ a combined X-ray and neutron scattering study. Journal of Non-Crystalline Solids, 2000, 278, 99-114. | 3.1 | 28 |
| 50 | Topological Ordering and Viscosity in the Glass-Forming Geâ€“Se System: The Search for a Structural or Dynamical Signature of the Intermediate Phase. Frontiers in Materials, 2017, 4, . | 2.4 | 28 |
| 51 | How the Surface Structure Determines the Properties of CuH. Inorganic Chemistry, 2015, 54, 2213-2220. | 4.0 | 27 |
| 52 | Bonding and structure in network glasses. Journal of Non-Crystalline Solids, 2016, 451, 56-67. | 3.1 | 26 |
| 53 | The Germanate Anomaly in Alkaline Earth Germanate Glasses. Journal of Physical Chemistry C, 2017, 121, 9462-9479. | 3.1 | 26 |
| 54 | Structural and physico-chemical analysis of calcium/strontium substituted, near-invert phosphate based glasses for biomedical applications. Acta Biomaterialia, 2017, 60, 109-127. | 8.3 | 26 |

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| 55 | Lattice dynamics and negative thermal expansion in the framework compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>ZnNi</mml:mi><mml:msub><mml:mrow><mml:mo>(<m with two-dimensional and three-dimensional local environments. Physical Review B, 2019, 99, . | 3.2 | 26 |
| 56 | Alkali environments in tellurite glasses. Journal of Non-Crystalline Solids, 2015, 414, 33-41. | 3.1 | 25 |
| 57 | Novel existence of collective propagating mode and strongly localized mode in vitreous silica. Physica B: Condensed Matter, 1999, 263-264, 268-272. | 2.7 | 24 |
| 58 | The effect of zinc and titanium on the structure of calciumâ€“sodium phosphate based glass. Journal of Non-Crystalline Solids, 2010, 356, 1319-1324. | 3.1 | 23 |
| 59 | Neutron diffraction analysis of the atomic short range order in lead gallate glasses. Journal of Non-Crystalline Solids, 1998, 232-234, 51-58. | 3.1 | 22 |
| 60 | Radial distribution function analysis of spatial atomic correlations in carbon nanotubes. Diamond and Related Materials, 2004, 13, 1261-1265. | 3.9 | 22 |
| 61 | Direct observation ofRâ€¦Rdistances in rare-earth(R)phosphate glasses by magnetic difference neutron diffraction. Physical Review B, 2006, 73, . | 3.2 | 22 |
| 62 | Environment of titanium and aluminum in a magnesium alumino-silicate glass. Journal of Physics Condensed Matter, 2009, 21, 375107. | 1.8 | 22 |
| 63 | Structure of V2O5â€“P2O5 glasses by X-ray and neutron diffraction. Journal of Non-Crystalline Solids, 2012, 358, 328-336. | 3.1 | 22 |
| 64 | A pulsed neutron diffraction study of the topological defects presence in carbon nanohorns. Chemical Physics Letters, 2011, 502, 87-91. | 2.6 | 21 |
| 65 | Atomic structure of Mg-based metallic glasses from molecular dynamics and neutron diffraction. Physical Chemistry Chemical Physics, 2017, 19, 8504-8515. | 2.8 | 21 |
| 66 | Metastable (Bi, M)<sub>2</sub>(Fe, Mn, Bi)<sub>2</sub>O<sub>6+x</sub> (M = Na or K) Pyrochlores from Hydrothermal Synthesis. Inorganic Chemistry, 2014, 53, 13197-13206. | 4.0 | 20 |
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| 70 | On the germaniumâ€“oxygen coordination number in lead germanate glasses. Journal of Non-Crystalline Solids, 2014, 386, 56-60. | 3.1 | 18 |
| 71 | In vitro cellular testing of strontium/calcium substituted phosphate glass discs and microspheres shows potential for bone regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 396-405. | 2.7 | 18 |
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| 73 | The True Structure and Metalâ˜Metal-Bonded Framework of LiMoIIIO2Determined from Total Neutron Scattering. Inorganic Chemistry, 1997, 36, 1749-1753. | 4.0 | 17 |
| 74 | Structure and thermal properties of yttrium alumino-phosphate glasses. Journal of Physics Condensed Matter, 2008, 20, 115204. | 1.8 | 17 |
| 75 | Structural Modeling of Dahlia-Type Single-Walled Carbon Nanohorn Aggregates by Molecular Dynamics. Journal of Physical Chemistry A, 2013, 117, 9057-9061. | 2.5 | 17 |
| 76 | LAD, 1982 - 1998: the first ISIS diffractometer. Journal of Physics Condensed Matter, 1999, 11, 9127-9138. | 1.8 | 16 |
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| 78 | Neutron scattering study of bulk amorphous GaSb. Journal of Non-Crystalline Solids, 1999, 244, 250-259. | 3.1 | 15 |
| 79 | A neutron and X-ray diffraction study of Caâ€“Mgâ€“Cu metallic glasses. Intermetallics, 2011, 19, 860-870. | 3.9 | 15 |
| 80 | Short-Range Order Details of Metaphosphate Glasses Studied by Pulsed Neutron Scattering. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1995, 50, 684-692. | 1.5 | 14 |
| 81 | Structure of Na2Oâ€“GeO2â€“P2O5 glasses by X-ray and neutron diffraction. Journal of Non-Crystalline Solids, 2014, 390, 59-69. | 3.1 | 14 |
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| 92 | Molecular dynamics simulation of carbon nanotube structure. Journal of Molecular Structure, 2006, 792-793, 78-81. | 3.6 | 10 |
| 93 | Structural Differences between the Glass and Crystal Forms of the Transparent Ferroelectric Nanocomposite, LaBGeO<sub>5</sub>, from Neutron Diffraction and NMR Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 20963-20980. | 3.1 | 10 |
| 94 | Structural units of binary vanadate glasses by X-ray and neutron diffraction. Journal of Non-Crystalline Solids, 2021, 572, 121120. | 3.1 | 10 |
| 95 | Effect of copper on the structure and other physical properties of Cuî—¸Asî—¸Te chalcogenide glasses. Journal of Physics and Chemistry of Solids, 1997, 58, 1625-1630. | 4.0 | 9 |
| 96 | Structure of potassium germanophosphate glasses by X-ray and neutron diffraction. Part 1: Short-range order. Journal of Non-Crystalline Solids, 2008, 354, 3572-3579. | 3.1 | 9 |
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| 98 | Complementary studies of structural characteristics for carbon materials with X-rays and neutrons. Journal of Alloys and Compounds, 2005, 401, 18-23. | 5.5 | 8 |
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| 100 | Atomic structure of chlorine containing calcium silicate glasses by neutron diffraction and <sup>29</sup>Si solidâ€state <scp>NMR</scp>. International Journal of Applied Glass Science, 2017, 8, 383-390. | 2.0 | 8 |
| 101 | Free volume distribution and structural inhomogeneity in Ni50V50 amorphous alloy. Journal of Alloys and Compounds, 2019, 770, 350-355. | 5.5 | 8 |
| 102 | Neutron Diffraction Studies of Graphiteâ^'Potassiumâ^'Methylamine:Â Staging Transitions and Structure of New Graphite Intercalation Compounds. Journal of Physical Chemistry B, 2000, 104, 10969-10972. | 2.6 | 7 |
| 103 | The structure of vitreous boron sulphide. Journal of Non-Crystalline Solids, 2001, 293-295, 383-388. | 3.1 | 7 |
| 104 | Structural analysis of xCsCl(1â^'x)Ga2S3 glasses. Journal of Non-Crystalline Solids, 2008, 354, 134-137. | 3.1 | 7 |
| 105 | Total neutron scattering investigation of the structure of a cobalt gallium oxide spinel prepared by solvothermal oxidation of gallium metal. Journal of Physics Condensed Matter, 2013, 25, 454212. | 1.8 | 7 |
| 106 | Continuous random network models of Cuâ€“Asâ€“Te glasses. Physica B: Condensed Matter, 2000, 276-278, 463-464. | 2.7 | 6 |
| 107 | Structure of a potassium germanophosphate glass by x-ray and neutron diffraction. Solid State Communications, 2007, 143, 403-407. | 1.9 | 6 |
| 108 | MAS-NMR studies of carbonate retention in a very wide range of Na2O-SiO2 glasses. Journal of Non-Crystalline Solids, 2020, 534, 119958. | 3.1 | 6 |

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| 110 | Structure of rare-earth chalcogenide glasses by neutron and x-ray diffraction. Journal of Physics Condensed Matter, 2017, 29, 225703. | 1.8 | 5 |
| 111 | Lead silicate glass structure: New insights from diffraction and modeling of probable lone pair locations. Journal of the American Ceramic Society, 2022, 105, 938-957. | 3.8 | 5 |
| 112 | An inelastic neutron scattering study of the dynamics of hydrogenated and deuterated amorphous silicon. Physica A: Statistical Mechanics and Its Applications, 1993, 201, 395-401. | 2.6 | 4 |
| 113 | The structure of sodium silicate glass from neutron diffraction and modeling of oxygenâ€oxygen correlations. Journal of the American Ceramic Society, 2021, 104, 6155. | 3.8 | 4 |
| 114 | Structural Investigation of Silicon Carbonitride Glasses by Neutron Diffraction. Materials Science Forum, 2002, 386-388, 365-370. | 0.3 | 3 |
| 115 | Neutron scattering length determination by means of total scattering. Journal of Applied Crystallography, 2018, 51, 854-866. | 4.5 | 3 |
| 116 | Dimeric Molecular Structure of Molten Gallium Trichloride and a Hidden Evolution toward a Possible Liquidâ€“Liquid Transition. Journal of Physical Chemistry B, 2019, 123, 10260-10266. | 2.6 | 3 |
| 117 | Pulsed neutron diffraction from GeS2-based sulphide glasses. Journal of Physics and Chemistry of Solids, 1999, 60, 1473-1477. | 4.0 | 2 |
| 118 | Energy relaxation and pulsed neutrons diffraction studies of carbon nanotubes. Diamond and Related Materials, 2006, 15, 1090-1093. | 3.9 | 2 |
| 119 | A neutron diffraction and 205Tl NMR study of the thallium germanate glass system. Journal of Non-Crystalline Solids, 2010, 356, 2517-2523. | 3.1 | 2 |
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| 121 | Preparation and Structure of the Ion-Conducting Mixed Molecular Glass Ga<sub>2</sub>I<sub>3.17</sub>. Inorganic Chemistry, 2021, 60, 6319-6326. | 4.0 | 2 |
| 122 | Structure of silver molybdate glasses by X-ray and neutron diffraction. Journal of Non-Crystalline Solids, 2021, 573, 121143. | 3.1 | 2 |
| 123 | Structural origin of the weak germanate anomaly in lead germanate glass properties. Journal of the American Ceramic Society, 2022, 105, 1010-1030. | 3.8 | 2 |
| 124 | Structure of binary antimony phosphate glasses by diffraction methods. Journal of Non-Crystalline Solids, 2022, 583, 121476. | 3.1 | 2 |
| 125 | Reverse Monte Carlo modeling of atomic configuration for Li2S-P2S5superionic glasses. IOP Conference Series: Materials Science and Engineering, 2011, 18, 022012. | 0.6 | 1 |
| 126 | Structural Disorder in (Bi, M)2(Fe, Mn, Bi)2O6+x (M = Na or K) Pyrochlores Seen from Reverse Monte Carlo Analysis of Neutron Total Scattering. Journal of Physical Chemistry C, 2017, 121, 18120-18128. | 3.1 | 1 |

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| 128 | Analysis of Physical and Structural Properties of Alkali Oxideâ€“Modified Tellurite Glasses. Journal of Undergraduate Reports in Physics, 2020, 30, 100003. | 0.1 | 1 |
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| 130 | Unexpected role of metal halides in a chalcogenide glass network. Materials and Design, 2022, 216, 110547. | 7.0 | 1 |
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