Chris Benmore

List of Publications by Year in Descending Order

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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.

220 6,498 46 70 g-index

242 7,301 4.3 5.87 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
220	Hot-melt extrudability of amorphous solid dispersions of flubendazole-copovidone: An exploratory study of the effect of drug loading and the balance of adjuvants on extrudability and dissolution <i>International Journal of Pharmaceutics</i> , 2022 , 614, 121456	6.5	1
219	Structures of glasses created by multiple kinetic arrests Journal of Chemical Physics, 2022, 156, 08450	43.9	
218	Unexpected role of metal halides in a chalcogenide glass network. <i>Materials and Design</i> , 2022 , 216, 110	0581.71	
217	Octahedral oxide glass network in ambient pressure neodymium titanate <i>Scientific Reports</i> , 2022 , 12, 8258	4.9	O
216	Vanadium Oxidation States and Structural Role in Aluminoborosilicate Glasses: An Integrated Experimental and Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 123	363 ⁴ 12	377
215	Long-Range Structures of Amorphous Solid Water. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 13320-13	33 <u>3</u> .8	2
214	Automated Development of Molten Salt Machine Learning Potentials: Application to LiCl. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4278-4285	6.4	9
213	Experimentally Driven Automated Machine-Learned Interatomic Potential for a Refractory Oxide. <i>Physical Review Letters</i> , 2021 , 126, 156002	7.4	9
212	Hard x-ray methods for studying the structure of amorphous thin films and bulk glassy oxides. Journal of Physics Condensed Matter, 2021 , 33,	1.8	1
211	Amorphous dispersions of flubendazole in hydroxypropyl methylcellulose: Formulation stability assisted by pair distribution function analysis. <i>International Journal of Pharmaceutics</i> , 2021 , 600, 12050	o ^{6.5}	7
210	Probing the Structure of Melts, Glasses, and Amorphous Materials. <i>Elements</i> , 2021 , 17, 175-180	3.8	3
209	Bulk Glassy GeTe2: A Missing Member of the Tetrahedral GeX2 Family and a Precursor for the Next Generation of Phase-Change Materials. <i>Chemistry of Materials</i> , 2021 , 33, 1031-1045	9.6	7
208	Unraveling the Atomic Structure of Bulk Binary Ga-Te Glasses with Surprising Nanotectonic Features for Phase-Change Memory Applications. <i>ACS Applied Materials & District Applied Materials &</i>	363:-37	3 <i>1</i> 9
207	Structure of crystalline and amorphous materials in the NASICON system NaAlGe(PO). <i>Journal of Chemical Physics</i> , 2021 , 155, 074501	3.9	2
206	Structure of ice confined in silica nanopores. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 12706-1271	73.6	O
205	Structures of glass-forming liquids by x-ray scattering: Glycerol, xylitol, and D-sorbitol <i>Journal of Chemical Physics</i> , 2021 , 155, 244508	3.9	0
204	Consequences of sp2日p3 boron isomerization in supercooled liquid borates. <i>Applied Physics Letters</i> , 2020 , 117, 131901	3.4	1

203	Redox-structure dependence of molten iron oxides. Communications Materials, 2020, 1,	6	2
202	Nanometer-Scale Correlations in Aqueous Salt Solutions. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2598-2604	6.4	7
201	In Situ High-Temperature Synchrotron Diffraction Studies of (Fe,Cr,Al)O Spinels. <i>Inorganic Chemistry</i> , 2020 , 59, 5949-5957	5.1	3
200	Short-Range Disorder in TeO Melt and Glass. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 427-431	6.4	14
199	Pressure-Driven Chemical Disorder in Glassy AsS up to 14.7 GPa, Postdensification Effects, and Applications in Materials Design. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 430-442	3.4	9
198	DFT Accurate Interatomic Potential for Molten NaCl from Machine Learning. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25760-25768	3.8	16
197	Machine-learned interatomic potentials by active learning: amorphous and liquid hafnium dioxide. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	34
196	Small- and Wide-Angle X-ray Scattering Studies of Liquid Liquid Phase Separation in Silicate Melts. <i>ACS Earth and Space Chemistry</i> , 2020 , 4, 1888-1894	3.2	2
195	Machine learning coarse grained models for water. <i>Nature Communications</i> , 2019 , 10, 379	17.4	55
194	Bulk moduli and high pressure crystal structure of U3Si2. <i>Journal of Nuclear Materials</i> , 2019 , 523, 135-14	43 .3	11
193	Bent HgI2 Molecules in the Melt and Sulfide Glasses: Implications for Nonlinear Optics. <i>Chemistry of Materials</i> , 2019 , 31, 4103-4112	9.6	11
192	Pressure induced structural transformations in amorphous MgSiO3 and CaSiO3. <i>Journal of Non-Crystalline Solids: X</i> , 2019 , 3, 100024	2.5	11
191	X-ray studies of the transformation from high- to low-density amorphous water. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180164	3	10
190	Intermediate range order in supercooled water. <i>Molecular Physics</i> , 2019 , 117, 2470-2476	1.7	13
189	Ionic transport and atomic structure of AgI-HgS-GeS2 glasses. Pure and Applied Chemistry, 2019 , 91, 180)7 <u>>.1</u> 82(03
188	The Structure of Amorphous and Deeply Supercooled Liquid Alumina. <i>Frontiers in Materials</i> , 2019 , 6,	4	29
187	Network topology of deeply supercooled water. <i>Molecular Physics</i> , 2019 , 117, 3217-3226	1.7	1
186	Rare-earth titanate melt structure and glass formation. <i>International Journal of Applied Glass Science</i> , 2019 , 10, 463-478	1.8	4

185	Exploring the structure of glass-forming liquids using high energy X-ray diffraction, containerless methodology and molecular dynamics simulation. <i>Journal of Non-Crystalline Solids: X</i> , 2019 , 3, 100027	2.5	1
184	Fluid Structure of Molten LiCl-Li Solutions. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 10036-10043	3.4	6
183	Molten barium titanate: a high-pressure liquid silicate analogue. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 20LT01	1.8	5
182	Structural features of ISG borosilicate nuclear waste glasses revealed from high-energy X-ray diffraction and molecular dynamics simulations. <i>Journal of Nuclear Materials</i> , 2019 , 515, 284-293	3.3	17
181	Borate melt structure: Temperature-dependent BD bond lengths and coordination numbers from high-energy X-ray diffraction. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3357-3371	3.8	12
180	Structure of semiconducting versus fast-ion conducting glasses in the Ag-Ge-Se system. <i>Royal Society Open Science</i> , 2018 , 5, 171401	3.3	5
179	Corium lavas: structure and properties of molten UO-ZrO under meltdown conditions. <i>Scientific Reports</i> , 2018 , 8, 2434	4.9	7
178	Experimental and Theoretical Insights into the Structure of Tellurium Chloride Glasses. <i>Inorganic Chemistry</i> , 2018 , 57, 2517-2528	5.1	3
177	Structure and Liquid Fragility in Sodium Carbonate. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 1071-107	'6 .8	6
176	Probing disorder in pyrochlore oxides using in situ synchrotron diffraction from levitated solids-A thermodynamic perspective. <i>Scientific Reports</i> , 2018 , 8, 10658	4.9	24
175	X-ray Scattering and O-O Pair-Distribution Functions of Amorphous Ices. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 7616-7624	3.4	40
174	Amorphous tantala and its relationship with the molten state. <i>Physical Review Materials</i> , 2018 , 2,	3.2	15
173	Phase transformations in oxides above 2000°C: experimental technique development. <i>Advances in Applied Ceramics</i> , 2018 , 117, s82-s89	2.3	8
172	Combined computational and experimental investigation of high temperature thermodynamics and structure of cubic ZrO and HfO. <i>Scientific Reports</i> , 2018 , 8, 14962	4.9	14
171	Using containerless methods to develop amorphous pharmaceuticals. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 3686-3692	4	6
170	Revisiting the hydration structure of aqueous Na. <i>Journal of Chemical Physics</i> , 2017 , 146, 084504	3.9	66
169	Local Structure of Ion Pair Interaction in Lapatinib Amorphous Dispersions characterized by Synchrotron X-Ray diffraction and Pair Distribution Function Analysis. <i>Scientific Reports</i> , 2017 , 7, 46367	4.9	21
168	Structure of rare-earth chalcogenide glasses by neutron and x-ray diffraction. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 225703	1.8	3

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167	Structure and thermal expansion of Lu2O3 and Yb2O3 up to the melting points. <i>Journal of Nuclear Materials</i> , 2017 , 495, 385-391	3.3	20
166	The structure of liquid UO2⊠ in reducing gas atmospheres. <i>Applied Physics Letters</i> , 2017 , 110, 081904	3.4	6
165	The structure of liquid alkali nitrates and nitrites. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 21625-2	2136638	8
164	Diffusive dynamics during the high-to-low density transition in amorphous ice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8193-8198	11.5	119
163	Aerodynamic levitation, supercooled liquids and glass formation. Advances in Physics: X, 2017, 2, 717-73	65.1	21
162	The Structure of Liquid and Amorphous Hafnia. <i>Materials</i> , 2017 , 10,	3.5	21
161	Structural studies of Bi2O3-Nb2O5-TeO2 glasses. <i>Journal of Non-Crystalline Solids</i> , 2016 , 451, 68-76	3.9	15
160	Continuous Structural Transition in Glass-Forming Molten Titanate BaTi2O5. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26974-26985	3.8	20
159	Low-Dimensional Network Formation in Molten Sodium Carbonate. <i>Scientific Reports</i> , 2016 , 6, 24415	4.9	13
158	Temperature-Driven Structural Transitions in Molten Sodium Borates Na2O B 2O3: X-ray Diffraction, Thermodynamic Modeling, and Implications for Topological Constraint Theory. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 553-560	3.8	28
157	Topological ordering in liquid UO2. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 015102	1.8	1
156	Thermal expansion in UO2 determined by high-energy X-ray diffraction. <i>Journal of Nuclear Materials</i> , 2016 , 479, 19-22	3.3	8
155	Aerodynamic levitator for in situ x-ray structure measurements on high temperature and molten nuclear fuel materials. <i>Review of Scientific Instruments</i> , 2016 , 87, 073902	1.7	18
154	The temperature dependence of intermediate range oxygen-oxygen correlations in liquid water. Journal of Chemical Physics, 2016 , 145, 084503	3.9	27
153	The structure of liquid water up to 360 MPa from x-ray diffraction measurements using a high Q-range and from molecular simulation. <i>Journal of Chemical Physics</i> , 2016 , 144, 134504	3.9	32
152	Mercury Sulfide Dimorphism in Thioarsenate Glasses. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 5278-9	0 3.4	6
151	A SAXS-WAXS study of the endothermic transitions in amorphous or supercooled liquid itraconazole. <i>Thermochimica Acta</i> , 2016 , 644, 1-5	2.9	9
150	X-ray Intermolecular Structure Factor(XISF): separation of intra- and intermolecular interactions from total X-ray scattering data. <i>Journal of Applied Crystallography</i> , 2015 , 48, 950-952	3.8	10

149	In Situ Diffraction from Levitated Solids Under Extreme Conditions Structure and Thermal Expansion in the Eu2O3 IrO2 System. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1292-1299	3.8	25
148	Structural properties of Y2O3Al2O3 liquids and glasses: An overview. <i>Journal of Non-Crystalline Solids</i> , 2015 , 407, 228-234	3.9	7
147	Exploring the Structure of High Temperature, Iron-bearing Liquids. <i>Materials Today: Proceedings</i> , 2015 , 2, S358-S363	1.4	1
146	Note: Detector collimators for the nanoscale ordered materials diffractometer instrument at the Spallation Neutron Source. <i>Review of Scientific Instruments</i> , 2015 , 86, 096105	1.7	1
145	Liquid B2O3 up to 1700 K: x-ray diffraction and boroxol ring dissolution. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 455104	1.8	22
144	Molten uranium dioxide structure and dynamics. <i>Science</i> , 2014 , 346, 984-7	33.3	58
143	High-energy X-ray diffraction of a hydrous silicate liquid under conditions of high pressure and temperature in a modified hydrothermal diamond anvil cell. <i>High Pressure Research</i> , 2014 , 34, 100-109	1.6	7
142	Low cation coordination in oxide melts. <i>Physical Review Letters</i> , 2014 , 112, 157801	7.4	48
141	Measurements of liquid and glass structures using aerodynamic levitation and in-situ high energy x-ray and neutron scattering. <i>Journal of Non-Crystalline Solids</i> , 2014 , 383, 49-51	3.9	32
140	Levitating water droplets formed by mist particles in an acoustic field 2014 ,		3
140	Levitating water droplets formed by mist particles in an acoustic field 2014 , The structure of water around the compressibility minimum. <i>Journal of Chemical Physics</i> , 2014 , 141, 214	1 <i>5</i> ,0 <i>7</i>	3 94
		15 ₉ 0.7	
139	The structure of water around the compressibility minimum. <i>Journal of Chemical Physics</i> , 2014 , 141, 214		94
139	The structure of water around the compressibility minimum. <i>Journal of Chemical Physics</i> , 2014 , 141, 214 Structure of molten titanium dioxide. <i>Physical Review B</i> , 2014 , 90, Unraveling the atomic structure of Ge-rich sulfide glasses. <i>Physical Chemistry Chemical Physics</i> , 2013	3.3	94
139 138 137	The structure of water around the compressibility minimum. <i>Journal of Chemical Physics</i> , 2014 , 141, 214 Structure of molten titanium dioxide. <i>Physical Review B</i> , 2014 , 90, Unraveling the atomic structure of Ge-rich sulfide glasses. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8487-94 A time resolved high energy X-ray diffraction study of cooling liquid SiO2. <i>Physical Chemistry</i>	3.3	94 51 31
139 138 137	The structure of water around the compressibility minimum. <i>Journal of Chemical Physics</i> , 2014 , 141, 214 Structure of molten titanium dioxide. <i>Physical Review B</i> , 2014 , 90, Unraveling the atomic structure of Ge-rich sulfide glasses. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8487-94 A time resolved high energy X-ray diffraction study of cooling liquid SiO2. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8566-72 A neutron-X-ray, NMR and calorimetric study of glassy Probucol synthesized using containerless	3.3 3.6 3.6	94 51 31 22
139 138 137 136	The structure of water around the compressibility minimum. <i>Journal of Chemical Physics</i> , 2014 , 141, 214 Structure of molten titanium dioxide. <i>Physical Review B</i> , 2014 , 90, Unraveling the atomic structure of Ge-rich sulfide glasses. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8487-94 A time resolved high energy X-ray diffraction study of cooling liquid SiO2. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8566-72 A neutron-X-ray, NMR and calorimetric study of glassy Probucol synthesized using containerless techniques. <i>Chemical Physics</i> , 2013 , 424, 89-92 Joint diffraction and modeling approach to the structure of liquid alumina. <i>Physical Review B</i> , 2013 ,	3.3 3.6 3.6	94 51 31 22

131	Structure and diffusion of ZnOBrOtaONa2OBiO2 bioactive glasses: a combined high energy X-ray diffraction and molecular dynamics simulations study. <i>RSC Advances</i> , 2013 , 3, 5966	3.7	25
130	Network topology for the formation of solvated electrons in binary CaO-Al2O3 composition glasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 1013	29 ⁻¹ 34	42
129	Structural characterization and aging of glassy pharmaceuticals made using acoustic levitation. Journal of Pharmaceutical Sciences, 2013 , 102, 1290-300	3.9	38
128	Area detector corrections for high quality synchrotron X-ray structure factor measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 662, 61-70	1.2	77
127	Pressure-induced crystallization of amorphous red phosphorus. <i>Solid State Communications</i> , 2012 , 152, 390-394	1.6	50
126	Combining flagelliform and dragline spider silk motifs to produce tunable synthetic biopolymer fibers. <i>Biopolymers</i> , 2012 , 97, 418-31	2.2	57
125	Structural Changes in Vitreous GeSe4 under Pressure. Journal of Physical Chemistry C, 2012, 116, 2212-2	23,187	24
124	Structure of molten CaSiO3: neutron diffraction isotope substitution with aerodynamic levitation and molecular dynamics study. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 13439-47	3.4	48
123	Combining Data from Multiple Techniques 2012 , 1		
122	Characterizing Pressure-Induced Coordination Changes in CaAl2O4 Glass Using 27Al NMR. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2068-2073	3.8	14
121	Comment on Molecular arrangement in water: random but not quiteQ <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 338001; discussion 338002	1.8	12
120	Acoustic levitation: recent developments and emerging opportunities in biomaterials research. <i>European Biophysics Journal</i> , 2012 , 41, 397-403	1.9	46
119	Compositional Evolution of Calcium Silicate Hydrate (CBH) Structures by Total X-Ray Scattering. Journal of the American Ceramic Society, 2012 , 95, 793-798	3.8	68
118	Comment on "Oxygen as a site specific probe of the structure of water and oxide materials". <i>Physical Review Letters</i> , 2012 , 108, 259603; discussion 259604	7.4	3
117	Total x-ray scattering of spider dragline silk. <i>Physical Review Letters</i> , 2012 , 108, 178102	7.4	16
116	Structure of the floating water bridge and water in an electric field. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 16463-8	11.5	57
116		11.5	57 46

113	Composition and polyamorphism in supercooled yttriallumina melts. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 435-441	3.9	19
112	High pressure x-ray diffraction measurements on Mg2SiO4 glass. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 2632-2636	3.9	20
111	Comment on "liquid-liquid phase transition in supercooled yttria-alumina". <i>Physical Review Letters</i> , 2011 , 106, 119601; author reply 119602	7.4	8
110	Instrumentation for structure measurements on highly non-equilibrium materials. <i>Diamond Light Source Proceedings</i> , 2011 , 1,		1
109	In situ measurement of the structure of supercooled oxide liquids. <i>Diamond Light Source Proceedings</i> , 2011 , 1,		1
108	Evidence for Tetrahedral Zinc in Amorphous In20xZnxSnxO3 (a-ZITO). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011 , 637, 885-894	1.3	14
107	The study of disorder and nanocrystallinity in CBH, supplementary cementitious materials and geopolymers using pair distribution function analysis. <i>Cement and Concrete Research</i> , 2011 , 41, 696-710) 10.3	86
106	More accurate X-ray scattering data of deeply supercooled bulk liquid water. <i>Molecular Physics</i> , 2011 , 109, 279-288	1.7	38
105	Influence of rare-earth ions on SiOENaD-REDD lglass structure. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 065404	1.8	14
104	Relationship between topological order and glass forming ability in densely packed enstatite and forsterite composition glasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 14780-5	11.5	81
103	High-pressure x-ray diffraction measurements on vitreous GeO2 under hydrostatic conditions. <i>Physical Review B</i> , 2010 , 81,	3.3	48
102	A perforated diamond anvil cell for high-energy x-ray diffraction of liquids and amorphous solids at high pressure. <i>Review of Scientific Instruments</i> , 2010 , 81, 035110	1.7	29
101	Temperature-dependent structural heterogeneity in calcium silicate liquids. <i>Physical Review B</i> , 2010 , 82,	3.3	43
100	The nature of intermediate-range order in Ge-As-S glasses: results from reverse Monte Carlo modeling. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 115404	1.8	13
99	Structure, topology and chemical order in Ge-As-Te glasses: a high-energy x-ray diffraction study. Journal of Physics Condensed Matter, 2010 , 22, 405401	1.8	13
98	Structural and topological changes in silica glass at pressure. <i>Physical Review B</i> , 2010 , 81,	3.3	135
97	High-Pressure Research at the Advanced Photon Source. Synchrotron Radiation News, 2010, 23, 32-38	0.6	5
96	Nanostructure of calcium silicate hydrates in cements. <i>Physical Review Letters</i> , 2010 , 104, 195502	7.4	175

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95	High-energy X-ray diffraction from aluminosilicate liquids. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 5742-6	3.4	24
94	Changes in the local environment surrounding magnesium ions in fragile MgO-SiO 2 liquids. <i>Europhysics Letters</i> , 2010 , 89, 26005	1.6	25
93	Quantitative measurements of phase transitions in nano- and glassy materials. <i>Journal of Physics:</i> Conference Series, 2010 , 215, 012021	0.3	
92	The structure of alkali silicate gel by total scattering methods. <i>Cement and Concrete Research</i> , 2010 , 40, 892-897	10.3	36
91	Evidence for a temperature-driven structural transformation in liquid bismuth. <i>Europhysics Letters</i> , 2009 , 86, 36004	1.6	55
90	Formalism for the determination of structural isotope effects with neutrons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 600, 257-259	1.2	3
89	A neutron diffraction study of nano-crystalline graphite oxide. <i>Carbon</i> , 2009 , 47, 2239-2243	10.4	26
88	Acoustic levitator for structure measurements on low temperature liquid droplets. <i>Review of Scientific Instruments</i> , 2009 , 80, 083904	1.7	59
87	Establishing the structure of GeS(2) at high pressures and temperatures: a combined approach using x-ray and neutron diffraction. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 474217	1.8	53
86	A molecular dynamics simulation interpretation of neutron and x-ray diffraction measurements on single phase Y(2)O(3)-Al(2)O(3) glasses. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 205102	1.8	58
85	Quantum Differences between Heavy and Light Water. <i>Physical Review Letters</i> , 2008 , 101, 065502	7.4	292
84	High-pressure behavior of As2O3: Amorphous-amorphous and crystalline-amorphous transitions. <i>Physical Review B</i> , 2008 , 77,	3.3	36
83	Structural analysis of xCsCl(1 k)Ga2S3 glasses. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 134-137	3.9	7
82	Compositional Variation of Short- and Intermediate-Range Structure and Chemical Order in GeAs Sulfide Glasses: A Neutron Diffraction Study. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7263-7269	3.8	11
81	Structure of high alumina content Al2O3-SiO2 composition glasses. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 16726-33	3.4	48
80	Detection of first-order liquid/liquid phase transitions in yttrium oxide-aluminum oxide melts. <i>Science</i> , 2008 , 322, 566-70	33.3	155
79	Influence of molten status on nanoquasicrystalline-forming Zr-based metallic glasses. <i>Applied Physics Letters</i> , 2008 , 93, 261905	3.4	5
78	A combined neutron and x-ray diffraction study of short- and intermediate-range structural characteristics of GeAs sulfide glasses. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 335105	1.8	12

77	Diffraction study of calcium aluminate glasses and melts: I. High energy x-ray and neutron diffraction on glasses around the eutectic composition. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 245106	1.8	15
76	Diffraction study of calcium aluminate glasses and melts: II. High energy x-ray diffraction on melts. Journal of Physics Condensed Matter, 2008 , 20, 245107	1.8	19
75	Intermediate range order in vitreous silica from a partial structure factor analysis. <i>Physical Review B</i> , 2008 , 78,	3.3	92
74	Network rigidity in GeSe2 glass at high pressure. <i>Physical Review Letters</i> , 2008 , 100, 115501	7.4	41
73	Very strong hydrogen bonds in a bent chain structure of fluorohydrogenate anions in liquid Cs(FH)2.3F. <i>Journal of Chemical Physics</i> , 2008 , 129, 014512	3.9	7
72	In situ high-pressure X-ray diffraction study of densification of a molecular chalcogenide glass. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 2336-2340	3.9	8
71	In situ diffraction studies of magnesium silicate liquids. <i>Journal of Materials Science</i> , 2008 , 43, 4707-471	34.3	35
70	Comment on Microscopic structural evolution during the liquid-liquid transition in triphenyl phosphite by R Kurita, Y Shinohara, Y Amemiya and H Tanaka J. Phys.: Condens. Matter 19 (2007) 152101. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 408001	1.8	3
69	Analysis of high-energy x-ray diffraction data at high pressure: the case of vitreous AsO at 32 GPa. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 415103	1.8	11
68	Structure of liquid SiO2: a measurement by high-energy x-ray diffraction. <i>Physical Review Letters</i> , 2007 , 98, 057802	7.4	86
67	The structure of densified As2O3 glasses. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 1755-1758	3.9	12
66	Comment on "Nature of the polyamorphic transition in ice under pressure". <i>Physical Review Letters</i> , 2006 , 96, 149601; discussion 149602	7.4	11
65	Adding a length scale to the polyamorphic ice debate. <i>Physical Review Letters</i> , 2006 , 97, 115503	7.4	25
64	Topological changes in glassy GeSe2 at pressures up to 9.3GPa determined by high-energy x-ray and neutron diffraction measurements. <i>Physical Review B</i> , 2006 , 74,	3.3	62
63	Orientational correlations in the glacial state of triphenyl phosphite. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 9747-50	3.4	13
62	Isotope quantum effects in water around the freezing point. Journal of Chemical Physics, 2006, 124, 134	-5,05	29
61	Structure of Glasses and Melts. Reviews in Mineralogy and Geochemistry, 2006, 63, 275-311	7.1	17
60	Short, intermediate and mesoscopic range order in sulfur-rich binary glasses. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 63-70	3.9	57

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