

Laurent Cormier

List of Publications by Year in descending order

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4154
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural evolution from glass to melt: a case study along the MgSiO_3 - CaSiO_3 join using neutron and X-ray diffraction. Comptes Rendus - Geoscience, 2022, 354, 15-34.	1.2	3
2	Structure of Ga-Sb-Se glasses by combination of ^{77}Se NMR and neutron diffraction experiments with molecular dynamics. Journal of Non-Crystalline Solids, 2021, 557, 120574.	3.1	3
3	Structural role of titanium on slag properties. Journal of the American Ceramic Society, 2021, 104, 105-113.	3.8	13
4	Molecular structure of amorphous slags: An experimental and numerical approach. Journal of Non-Crystalline Solids, 2021, 556, 120444.	3.1	3
5	Vitrification, crystallization behavior and structure of zinc aluminosilicate glasses. Journal of Non-Crystalline Solids, 2021, 555, 120609.	3.1	10
6	Structural analysis of sputtered amorphous silica thin films: A Raman spectroscopy investigation. Thin Solid Films, 2021, 733, 138811.	1.8	6
7	Lithium Borates from the Glass to the Melt: A Temperature-Induced Structural Transformation Viewed from the Boron and Oxygen Atoms. Inorganic Chemistry, 2021, 60, 798-806.	4.0	11
8	Glasses: Aluminosilicates. , 2021, , 496-518.		9
9	Influence of zirconium on cation mobilities in $\text{Na}_2\text{O}-\text{CaO}-\text{Al}_2\text{O}_3-\text{SiO}_2$ melts: A multicomponent diffusion and XANES study. Geochimica Et Cosmochimica Acta, 2020, 270, 394-408.	3.9	2
10	Structural evolution of high zirconia aluminosilicate glasses. Journal of Non-Crystalline Solids, 2020, 539, 120050.	3.1	23
11	Structural evolution at short and medium range distances during crystallization of a P_2O_5 - Li_2O - Al_2O_3 - O_3 - SiO_2 glass. Journal of the American Ceramic Society, 2020, 103, 4969-4982.	3.8	6
12	Transition metals as optically active dopants in glass-ceramics. Applied Physics Letters, 2020, 116, .	3.3	18
13	Quantitative determination of the phosphorus environment in lithium aluminosilicate glasses using solid-state NMR techniques. Physical Chemistry Chemical Physics, 2019, 21, 18370-18379.	2.8	12
14	Multi-Scale Investigation of Body-Glaze Interface in Ancient Ceramics. Heritage, 2019, 2, 2480-2494.	1.9	7
15	Speciation Change of Uranyl in Lithium Borate Glasses. Inorganic Chemistry, 2019, 58, 6858-6865.	4.0	23
16	Structural transformations and spectroscopic properties of Ni-doped magnesium aluminosilicate glass-ceramics nucleated by a mixture of TiO_2 and ZrO_2 for broadband near-IR light emission. Journal of Alloys and Compounds, 2019, 780, 137-146.	5.5	25
17	Crystallization and Glass-Ceramics. Springer Handbooks, 2019, , 113-167.	0.6	19
18	Neutron and X-Ray Diffraction of Glass. Springer Handbooks, 2019, , 1047-1094.	0.6	7

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19	Couleurs et Œmaux. Des dŒcors de la Manufacture de SŒvres Œ la rŒactivŒ des pigments. , 2019, , 26-29.0.1		0
20	Short and medium range structures of $80\text{GeSe}_{2-x}\text{Ga}_2\text{Se}_3$ chalcogenide glasses. Journal of Physics Condensed Matter, 2018, 30, 185403.	1.8	5
21	Different roles of phosphorus in the nucleation of lithium aluminosilicate glasses. Journal of Non-Crystalline Solids, 2018, 493, 48-56.	3.1	34
22	Synthesis, properties and uses of chromium-based pigments from the Manufacture de SŒvres. Journal of Cultural Heritage, 2018, 30, 26-33.	3.3	18
23	A XANES investigation of the network-modifier cations environment before and after the Na + /K + ion-exchange in silicate glasses. Journal of Non-Crystalline Solids, 2018, 479, 97-104.	3.1	14
24	Reactivity of chromium-based pigments in a porcelain glaze. Comptes Rendus Physique, 2018, 19, 589-598.	0.9	3
25	Structural study of $\text{Na}_2\text{O}-\text{B}_2\text{O}_3-\text{SiO}_2-\text{La}_2\text{O}_3$ glasses from molecular simulations using a polarizable force field. Journal of Non-Crystalline Solids, 2018, 499, 371-379.	3.1	16
26	Interaction between Cr-bearing pigments and transparent glaze: A transmission electron microscopy study. Journal of Non-Crystalline Solids, 2017, 459, 184-191.	3.1	15
27	Real-time observation of the isothermal crystallization kinetics in a deeply supercooled liquid. Scientific Reports, 2017, 7, 43671.	3.3	4
28	Thermodynamic insight into the evolution of medieval glassworking properties. Journal of the American Ceramic Society, 2017, 100, 2363-2367.	3.8	8
29	The ID21 X-ray and infrared microscopy beamline at the ESRF: status and recent applications to artistic materials. Journal of Analytical Atomic Spectrometry, 2017, 32, 477-493.	3.0	140
30	Exploration of glass domain in the $\text{SiO}_2-\text{B}_2\text{O}_3-\text{La}_2\text{O}_3$ system. Journal of Non-Crystalline Solids, 2017, 476, 158-172.	3.1	23
31	Lithium borate crystals and glasses: How similar are they? A non-resonant inelastic X-ray scattering study around the B and O K -edges. Journal of Non-Crystalline Solids, 2017, 472, 1-8.	3.1	28
32	Structural study of $\text{Na}_2\text{O}-\text{B}_2\text{O}_3-\text{SiO}_2$ glasses from molecular simulations using a polarizable force field. Journal of Chemical Physics, 2017, 147, 161711.	3.0	34
33	The art of Bernard Palissy (1510Œ1590): influence of firing conditions on the microstructure of iron-coloured high-lead glazes. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	6
34	The stability of gahnite doped with chromium pigments in glazes from the French manufacture of SŒvres. Journal of the American Ceramic Society, 2017, 100, 86-95.	3.8	8
35	7C2, the new neutron diffractometer for liquids and disordered materials at LLB. Journal of Physics: Conference Series, 2016, 746, 012020.	0.4	21
36	Spectroscopic properties of Cr^{3+} in the spinel solid solution $\text{ZnAl}_{2-x}\text{Cr}_x\text{O}_4$. Physics and Chemistry of Minerals, 2016, 43, 33-42.	0.8	16

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37	Zr environment and nucleation role in aluminosilicate glasses. <i>Materials Chemistry and Physics</i> , 2015, 152, 41-47.	4.0	42
38	Structural evolution of Ni environment in lithium, magnesium and zinc aluminosilicate glasses and glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2015, 413, 24-33.	3.1	19
39	In situ evolution of Ni environment in magnesium aluminosilicate glasses and glass-ceramics—Influence of ZrO ₂ and TiO ₂ nucleating agents. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 78, 137-146.	4.0	9
40	In situ local environment and partitioning of Ni ²⁺ ions during crystallization of an oxyfluoride glass. <i>Journal of Non-Crystalline Solids</i> , 2015, 408, 7-12.	3.1	15
41	Nucleation in Glasses — New Experimental Findings and Recent Theories. , 2014, 7, 60-71.		35
42	Spectroscopic Investigation and Crystallization Study of Rare Earth Metaborate Glasses. , 2014, 7, 131-137.		10
43	The Structural Properties of Cations in Nuclear Glasses. , 2014, 7, 23-31.		34
44	Transition Elements and Nucleation in Glasses Using X-ray Absorption Spectroscopy. <i>International Journal of Applied Glass Science</i> , 2014, 5, 126-135.	2.0	14
45	Detecting Non-bridging Oxygens: Non-Resonant Inelastic X-ray Scattering in Crystalline Lithium Borates. <i>Inorganic Chemistry</i> , 2014, 53, 10903-10908.	4.0	26
46	Structural investigation of glasses along the MgSiO ₃ –CaSiO ₃ join: Diffraction studies. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 122, 498-510.	3.9	47
47	Mechanisms of boron coordination change between borosilicate glasses and melts. <i>Journal of Non-Crystalline Solids</i> , 2013, 379, 169-176.	3.1	39
48	Polyamorphism in cerium based bulk metallic glasses: Electronic and structural properties under pressure and temperature by x-ray absorption techniques. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	19
49	Evolution of the Ni ²⁺ Environment During the Formation of a MgO–Al ₂ O ₃ –SiO ₂ –CaO–B ₂ O ₃ Glass-Ceramic: A Combined XRD and Diffuse Reflectance Spectroscopy Approach. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3483-3489.	3.8	15
50	Multi-scale structuration of glasses: Observations of phase separation and nanoscale heterogeneities in glasses by Z-contrast scanning electron transmission microscopy. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1257-1262.	3.1	53
51	Evidence of fivefold-coordinated Ge atoms in amorphous GeO ₂ under pressure using inelastic x-ray scattering. <i>Physical Review B</i> , 2012, 85, .	3.2	53
52	Mesoscopic scale description of nucleation processes in glasses. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	40
53	Investigation of the Role of Nucleating Agents in MgO–SiO ₂ –Al ₂ O ₃ –SiO ₂ –TiO ₂ Glasses and Glass-Ceramics: A XANES Study at the Ti K- and L _{2,3} -Edges. <i>Crystal Growth and Design</i> , 2011, 11, 311-319.	3.0	51
54	Structural changes between soda-lime silicate glass and melt. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 926-931.	3.1	42

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55	Development of empirical potentials for sodium borosilicate glass systems. Journal of Non-Crystalline Solids, 2011, 357, 3313-3321.	3.1	125
56	Mg coordination in a $MgSiO_3$ glass using neutron diffraction coupled with isotopic substitution. Physical Review B, 2011, 83, .	3.2	55
57	<i>In Situ</i> study of Nucleation of Zirconia in an $MgO-Al_2O_3-SiO_2$ Glass. Journal of the American Ceramic Society, 2010, 93, 342-344.	3.8	55
58	Rearrangement of the structure during nucleation of a cordierite glass doped with TiO_2 . Journal of Physics Condensed Matter, 2010, 22, 185401.	1.8	13
59	Structural Evolution of Nuclear Glasses under Forcing Conditions (Irradiation, Alteration). Materials Research Society Symposia Proceedings, 2010, 1265, 1.	0.1	4
60	The structure of crystals, glasses, and melts along the CaO-Al ₂ O ₃ join: Results from Raman, Al L- and K-edge X-ray absorption, and ²⁷ Al NMR spectroscopy. American Mineralogist, 2010, 95, 1580-1589.	1.9	75
61	Structural study of Ca-Mg and Mg mixing in silicate glasses by neutron diffraction. Journal of Non-Crystalline Solids, 2010, 356, 2327-2331.	3.1	31
62	Structural fluctuations and role of Ti as nucleating agent in an aluminosilicate glass. Journal of Non-Crystalline Solids, 2010, 356, 1368-1373.	3.1	37
63	Structural role of Zr ⁴⁺ as a nucleating agent in a MgO-Al ₂ O ₃ -SiO ₂ glass-ceramics: A combined XAS and HRTEM approach. Journal of Non-Crystalline Solids, 2010, 356, 2928-2934.	3.1	49
64	Environment of titanium and aluminum in a magnesium aluminosilicate glass. Journal of Physics Condensed Matter, 2009, 21, 375107.	1.8	22
65	An O K-edge XANES study of glasses and crystals in the CaO-Al ₂ O ₃ -SiO ₂ (CAS) system. Chemical Geology, 2009, 259, 54-62.	3.3	43
66	The crystal and melt structure of spinel and alumina at high temperature: An in-situ XANES study at the Al and Mg K-edge. Geochimica Et Cosmochimica Acta, 2009, 73, 3410-3422.	3.9	45
67	Silica polymorphs, glass and melt: An in situ high temperature XAS study at the Si K-edge. Journal of Non-Crystalline Solids, 2009, 355, 1099-1102.	3.1	25
68	The structure of GeO ₂ -SiO ₂ glasses and melts: A Raman spectroscopy study. Journal of Non-Crystalline Solids, 2009, 355, 468-474.	3.1	146
69	High-resolution Al L _{2,3} -edge x-ray absorption near edge structure spectra of Al-containing crystals and glasses: coordination number and bonding information from edge components. Journal of Physics Condensed Matter, 2008, 20, 135219.	1.8	36
70	Environments around Al, Si, and Ca in aluminate and aluminosilicate melts by X-ray absorption spectroscopy at high temperature. American Mineralogist, 2008, 93, 228-234.	1.9	86
71	Structure and dynamics of oxide melts and glasses: A view from multinuclear and high temperature NMR. Journal of Non-Crystalline Solids, 2008, 354, 249-254.	3.1	59
72	The structure of SiO ₂ -GeO ₂ glasses: A spectroscopic study. Journal of Non-Crystalline Solids, 2008, 354, 2004-2009.	3.1	39

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73	Nature and distribution of iron sites in a sodium silicate glass investigated by neutron diffraction and EPSR simulation. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5378-5385.	3.1	59
74	Kinetics and mechanisms of iron redox reactions in silicate melts: The effects of temperature and alkali cations. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 2157-2168.	3.9	105
75	Environments of Mg and Al in MgO-Al ₂ O ₃ -SiO ₂ glasses: A study coupling neutron and X-ray diffraction and Reverse Monte Carlo modeling. <i>Chemical Geology</i> , 2008, 256, 111-118.	3.3	99
76	Boroxol Rings in Liquid and Vitreous B ₂ O ₃ from First Principles. <i>Physical Review Letters</i> , 2008, 101, 065504.	7.8	131
77	Intermediate-range order in the silicate network glasses. <i>Physical Review B</i> , 2008, 78, .	3.2	45
78	Amorphous materials: Properties, structure, and durability: Structure of Mg- and Mg/Ca aluminosilicate glasses: 27Al NMR and Raman spectroscopy investigations. <i>American Mineralogist</i> , 2008, 93, 1721-1731.	1.9	187
79	Amorphous-amorphous transformation at high pressure in gallo-germanosilicate tetrahedral network glasses. <i>Physical Review B</i> , 2007, 76, .	3.2	9
80	Local Al site distribution in aluminosilicate glasses by 27Al MQMAS NMR. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 180-184.	3.1	121
81	Structure of single and mixed alkali Li-Rb borate glasses by neutron diffraction. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1779-1784.	3.1	13
82	An O K-edge XANES study of calcium aluminates. <i>Canadian Journal of Chemistry</i> , 2007, 85, 801-805.	1.1	10
83	The Silicon Environment in Silica Polymorphs, Aluminosilicate Crystals and Melts: An In Situ High Temperature XAS Study. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
84	Investigation of Aluminate and Al ₂ O ₃ Crystals and Melts at High Temperature Using XANES Spectroscopy. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	3
85	An In Situ High Temperature Investigation of Cation Environments in Aluminate and Silicate Glasses and Liquids at the LUCIA Beamline. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	1
86	XANES Determination of Chromium Oxidation States in Glasses: Comparison With Optical Absorption Spectroscopy. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3578-3581.	3.8	33
87	Combination of Polymorphisms From Genes Related to Estrogen Metabolism and Risk of Prostate Cancers: The Hidden Face of Estrogens. <i>Journal of Clinical Oncology</i> , 2007, 25, 3596-3602.	1.6	89
88	Determination of Fe ³⁺ sites in a NaFeSi ₂ O ₆ glass by neutron diffraction with isotopic substitution coupled with numerical simulation. <i>Applied Physics Letters</i> , 2006, 89, 141911.	3.3	29
89	Al coordination and speciation in calcium aluminosilicate glasses: Effects of composition determined by 27Al MQ-MAS NMR and Raman spectroscopy. <i>Chemical Geology</i> , 2006, 229, 173-185.	3.3	389
90	Crystal field spectroscopy of Cr ³⁺ in glasses: Compositional dependence and thermal site expansion. <i>Chemical Geology</i> , 2006, 229, 218-226.	3.3	32

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91	The structure of amorphous, crystalline and liquid GeO ₂ . Journal of Physics Condensed Matter, 2006, 18, R753-R784.	1.8	206
92	Temperature-Induced Structural Modifications Between Alkali Borate Glasses and Melts. Journal of the American Ceramic Society, 2006, 89, 13-19.	3.8	63
93	Kinetics of iron redox reactions in silicate liquids: A high-temperature X-ray absorption and Raman spectroscopy study. Journal of Nuclear Materials, 2006, 352, 190-195.	2.7	65
94	Determination of the thermal expansion of Cr ³⁺ sites in glasses. Applied Physics Letters, 2006, 88, 121918.	3.3	5
95	Evidence for symmetric cationic sites in zirconium-bearing oxide glasses. Physical Review B, 2006, 73, .	3.2	40
96	Relationship Between Structure and Glass Transition Temperature in Low-silica Calcium Aluminosilicate Glasses: the Origin of the Anomaly at Low Silica Content. Journal of the American Ceramic Society, 2005, 88, 2292-2299.	3.8	69
97	NMR Heteronuclear Correlation between Quadrupolar Nuclei in Solids. Journal of the American Chemical Society, 2005, 127, 11540-11541.	13.7	143
98	Na K-edge XANES spectra of minerals and glasses. European Journal of Mineralogy, 2004, 16, 809-816.	1.3	45
99	The lithium environment in lithium diborate glass studied by neutron diffraction with isotopic substitution of Li. Physica B: Condensed Matter, 2004, 350, 258-261.	2.7	6
100	A neutron diffraction study of temperature-induced structural changes in potassium disilicate glass and melt. Chemical Geology, 2004, 213, 89-102.	3.3	46
101	Al speciation and Ca environment in calcium aluminosilicate glasses and crystals by Al and Ca K-edge X-ray absorption spectroscopy. Chemical Geology, 2004, 213, 153-163.	3.3	147
102	Kinetics of iron oxidation in silicate melts: a preliminary XANES study. Chemical Geology, 2004, 213, 253-263.	3.3	67
103	Ca and Na environments in Na ₂ O-CaO-Al ₂ O ₃ -SiO ₂ glasses: influence of cation mixing and cation-network interactions. Chemical Geology, 2004, 213, 103-113.	3.3	141
104	Al environment in tectosilicate and peraluminous glasses: A ²⁷ Al MQ-MAS NMR, Raman, and XANES investigation. Geochimica Et Cosmochimica Acta, 2004, 68, 5071-5079.	3.9	419
105	Pressure-induced Ge coordination change and polyamorphism in SiO ₂ -GeO ₂ glasses. Journal of Non-Crystalline Solids, 2004, 345-346, 34-38.	3.1	34
106	Chemical dependence of network topology of calcium aluminosilicate glasses: a computer simulation study. Journal of Non-Crystalline Solids, 2003, 332, 255-270.	3.1	149
107	Chemical stability of Ni-enriched nanodomains in alkali borate glasses. Journal of Non-Crystalline Solids, 2003, 321, 197-203.	3.1	11
108	Structure of ¹²⁵ I-irradiated glasses studied by X-ray absorption and Raman spectroscopies. Journal of Non-Crystalline Solids, 2003, 323, 207-213.	3.1	35

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109	Structural Modifications between Lithium-Diborate Glasses and Melts: Implications for Transport Properties and Melt Fragility. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13044-13050.	2.6	23
110	Temperature-induced boron coordination change in alkali borate glasses and melts. <i>Physical Review B</i> , 2003, 67, .	3.2	85
111	Medium-range order in alkali metaphosphate glasses and melts investigated by reverse Monte Carlo simulations and diffraction analysis. <i>Physical Review B</i> , 2003, 67, .	3.2	8
112	Organization Around Cations in Oxide Glasses Using X-Ray Absorption Spectroscopy. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	0
113	La structure des verres étudiée par diffraction des neutrons. <i>European Physical Journal Special Topics</i> , 2003, 111, 187-210.	0.2	1
114	Structure-property relationships in multicomponent oxide glasses. <i>Comptes Rendus Chimie</i> , 2002, 5, 831-843.	0.5	102
115	Cationic environment in silicate glasses studied by neutron diffraction with isotopic substitution. <i>Chemical Geology</i> , 2001, 174, 349-363.	3.3	47
116	Environment of Ni, Co and Zn in low alkali borate glasses: information from EXAFS and XANES spectra. <i>Journal of Non-Crystalline Solids</i> , 2001, 293-295, 105-111.	3.1	45
117	Investigation of multicomponent silicate glasses by coupling WAXS and molecular dynamics. <i>Journal of Non-Crystalline Solids</i> , 2001, 293-295, 290-296.	3.1	37
118	A high temperature neutron diffraction study of a titanosilicate glass. <i>Journal of Non-Crystalline Solids</i> , 2001, 293-295, 510-516.	3.1	21
119	Short- and medium-range structural order around cations in glasses: a multidisciplinary approach. <i>Comptes Rendus Physique</i> , 2001, 2, 249-262.	0.1	8
120	Cationic ordering in oxide glasses: the example of transition elements. <i>Mineralogical Magazine</i> , 2000, 64, 409-424.	1.4	31
121	Competition for charge compensation in borosilicate glasses: Wide-angle x-ray scattering and molecular dynamics calculations. <i>Physical Review B</i> , 2000, 61, 14495-14499.	3.2	86
122	Structure and properties of low-silica calcium aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2000, 274, 110-114.	3.1	119
123	Evidence of Ni-containing ordered domains in low-alkali borate glasses. <i>Europhysics Letters</i> , 1999, 45, 572-578.	2.0	26
124	Environment around strontium in silicate and aluminosilicate glasses. <i>Physical Review B</i> , 1999, 59, 13517-13520.	3.2	30
125	Comparison of the low-Q features in diffraction data for silicate glasses and crystals containing Sr or Ba. <i>Journal of Non-Crystalline Solids</i> , 1999, 248, 84-91.	3.1	19
126	Medium-range order around titanium in a silicate glass studied by neutron diffraction with isotopic substitution. <i>Physical Review B</i> , 1998, 58, 11322-11330.	3.2	65

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127	Environment around Li in the LiAlSiO_4 ionic conductor glass: A neutron-scattering and reverse Monte Carlo study. <i>Physical Review B</i> , 1998, 57, R8067-R8070.	3.2	23
128	A reverse Monte Carlo study of a titanosilicate glass. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 10129-10136.	1.8	8
129	The titanium environment in a potassium silicate glass measured by neutron scattering with isotopic substitution. <i>Physica B: Condensed Matter</i> , 1997, 234-236, 393-395.	2.7	14
130	Vibrational density of states and structural origin of the heat capacity anomalies in $\text{Ca}_3\text{Al}_2\text{Si}_3\text{O}_{12}$ glasses. <i>Physica B: Condensed Matter</i> , 1997, 241-243, 906-908.	2.7	8
131	Medium range order around cations in silicate glasses. <i>Chemical Geology</i> , 1996, 128, 77-91.	3.3	29