

Laurent Cormier

List of Publications by Year in descending order

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papers

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66343
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#	ARTICLE	IF	CITATIONS
1	Al environment in tectosilicate and peraluminous glasses: A ^{27}Al MQ-MAS NMR, Raman, and XANES investigation. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 5071-5079.	3.9	419
2	Al coordination and speciation in calcium aluminosilicate glasses: Effects of composition determined by ^{27}Al MQ-MAS NMR and Raman spectroscopy. <i>Chemical Geology</i> , 2006, 229, 173-185.	3.3	389
3	The structure of amorphous, crystalline and liquid GeO_2 . <i>Journal of Physics Condensed Matter</i> , 2006, 18, R753-R784.	1.8	206
4	Amorphous materials: Properties, structure, and durability: Structure of Mg- and Mg/Ca aluminosilicate glasses: ^{27}Al NMR and Raman spectroscopy investigations. <i>American Mineralogist</i> , 2008, 93, 1721-1731.	1.9	187
5	Chemical dependence of network topology of calcium aluminosilicate glasses: a computer simulation study. <i>Journal of Non-Crystalline Solids</i> , 2003, 332, 255-270.	3.1	149
6	Al speciation and Ca environment in calcium aluminosilicate glasses and crystals by Al and Ca K-edge X-ray absorption spectroscopy. <i>Chemical Geology</i> , 2004, 213, 153-163.	3.3	147
7	The structure of $\text{GeO}_2\text{-SiO}_2$ glasses and melts: A Raman spectroscopy study. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 468-474.	3.1	146
8	NMR Heteronuclear Correlation between Quadrupolar Nuclei in Solids. <i>Journal of the American Chemical Society</i> , 2005, 127, 11540-11541.	13.7	143
9	Ca and Na environments in $\text{Na}_2\text{O}\text{-CaO}\text{-Al}_2\text{O}_3\text{-SiO}_2$ glasses: influence of cation mixing and cation-network interactions. <i>Chemical Geology</i> , 2004, 213, 103-113.	3.3	141
10	The ID21 X-ray and infrared microscopy beamline at the ESRF: status and recent applications to artistic materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 477-493.	3.0	140
11	Boroxol Rings in Liquid and Vitreous B_xO_{3-x} Glasses. <i>Physical Review Letters</i> , 2008, 101, 065504.	7.8	131
12	Development of empirical potentials for sodium borosilicate glass systems. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 3313-3321.	3.1	125
13	Local Al site distribution in aluminosilicate glasses by ^{27}Al MQMAS NMR. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 180-184.	3.1	121
14	Structure and properties of low-silica calcium aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2000, 274, 110-114.	3.1	119
15	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
16	Structure-property relationships in multicomponent oxide glasses. <i>Comptes Rendus Chimie</i> , 2002, 5, 831-843.	0.5	102
17	Environments of Mg and Al in $\text{MgO}\text{-Al}_2\text{O}_3\text{-SiO}_2$ 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
18	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

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19	Competition for charge compensation in borosilicate glasses: Wide-angle x-ray scattering and molecular dynamics calculations. Physical Review B, 2000, 61, 14495-14499.	3.2	86
20	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
21	Temperature-induced boron coordination change in alkali borate glasses and melts. Physical Review B, 2003, 67, .	3.2	85
22	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
23	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
24	Kinetics of iron oxidation in silicate melts: a preliminary XANES study. Chemical Geology, 2004, 213, 253-263.	3.3	67
25	Medium-range order around titanium in a silicate glass studied by neutron diffraction with isotopic substitution. Physical Review B, 1998, 58, 11322-11330.	3.2	65
26	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
27	Temperature-Induced Structural Modifications Between Alkali Borate Glasses and Melts. Journal of the American Ceramic Society, 2006, 89, 13-19.	3.8	63
28	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
29	Nature and distribution of iron sites in a sodium silicate glass investigated by neutron diffraction and EPSR simulation. Journal of Non-Crystalline Solids, 2008, 354, 5378-5385.	3.1	59
30	In Situ study of Nucleation of Zirconia in an MgO-Al ₂ O ₃ -SiO ₂ Glass. Journal of the American Ceramic Society, 2010, 93, 342-344.	3.8	55
31	Mg coordination in a MgSiO ₃ glass using neutron diffraction coupled with isotopic substitution. Physical Review B, 2011, 83, .	3.2	55
32	Multi-scale structuration of glasses: Observations of phase separation and nanoscale heterogeneities in glasses by Z-contrast scanning electron transmission microscopy. Journal of Non-Crystalline Solids, 2012, 358, 1257-1262.	3.1	53
33	Evidence of fivefold-coordinated Ge atoms in amorphous GeO ₂ under pressure using inelastic x-ray scattering. Physical Review B, 2012, 85, .	3.2	53
34	Investigation of the Role of Nucleating Agents in MgO-SiO ₂ -Al ₂ O ₃ -TiO ₂ Glasses and Glass-Ceramics: A XANES Study at the Ti K- and L _{2,3} -Edges. Crystal Growth and Design, 2011, 11, 311-319.	3.0	51
35	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
36	Cationic environment in silicate glasses studied by neutron diffraction with isotopic substitution. Chemical Geology, 2001, 174, 349-363.	3.3	47

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37	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
38	A neutron diffraction study of temperature-induced structural changes in potassium disilicate glass and melt. <i>Chemical Geology</i> , 2004, 213, 89-102.	3.3	46
39	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
40	Na K-edge XANES spectra of minerals and glasses. <i>European Journal of Mineralogy</i> , 2004, 16, 809-816.	1.3	45
41	Intermediate-range order in the silicate network glasses $\text{NaFe}_{x^{3/2}} \text{Al}_{45} \text{Si}_{15}$ Physical Review B, 2008, 78, .		
42	The crystal and melt structure of spinel and alumina at high temperature: An in-situ XANES study at the Al and Mg K-edge. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3410-3422.	3.9	45
43	An O K-edge XANES study of glasses and crystals in the CaO-Al ₂ O ₃ -SiO ₂ (CAS) system. <i>Chemical Geology</i> , 2009, 259, 54-62.	3.3	43
44	Structural changes between soda-lime silicate glass and melt. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 926-931.	3.1	42
45	Zr environment and nucleation role in aluminosilicate glasses. <i>Materials Chemistry and Physics</i> , 2015, 152, 41-47.	4.0	42
46	Evidence for symmetric cationic sites in zirconium-bearing oxide glasses. <i>Physical Review B</i> , 2006, 73, .	3.2	40
47	Mesoscopic scale description of nucleation processes in glasses. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	40
48	The structure of SiO ₂ -GeO ₂ glasses: A spectroscopic study. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 2004-2009.	3.1	39
49	Mechanisms of boron coordination change between borosilicate glasses and melts. <i>Journal of Non-Crystalline Solids</i> , 2013, 379, 169-176.	3.1	39
50	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
51	Structural fluctuations and role of Ti as nucleating agent in an aluminosilicate glass. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 1368-1373.	3.1	37
52	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. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 135219.	1.8	36
53	Structure of γ^2 -irradiated glasses studied by X-ray absorption and Raman spectroscopies. <i>Journal of Non-Crystalline Solids</i> , 2003, 323, 207-213.	3.1	35
54	Nucleation in Glasses – New Experimental Findings and Recent Theories. , 2014, 7, 60-71.		35

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55	Pressure-induced Ge coordination change and polyamorphism in SiO ₂ -GeO ₂ glasses. <i>Journal of Non-Crystalline Solids</i> , 2004, 345-346, 34-38.		3.1	34
56	The Structural Properties of Cations in Nuclear Glasses. , 2014, 7, 23-31.			34
57	Structural study of Na ₂ O-B ₂ O ₃ -SiO ₂ glasses from molecular simulations using a polarizable force field. <i>Journal of Chemical Physics</i> , 2017, 147, 161711.		3.0	34
58	Different roles of phosphorus in the nucleation of lithium aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2018, 493, 48-56.		3.1	34
59	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
60	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
61	Cationic ordering in oxide glasses: the example of transition elements. <i>Mineralogical Magazine</i> , 2000, 64, 409-424.		1.4	31
62	Structural study of Ca-Mg and K-Mg mixing in silicate glasses by neutron diffraction. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2327-2331.		3.1	31
63	Environment around strontium in silicate and aluminosilicate glasses. <i>Physical Review B</i> , 1999, 59, 13517-13520.		3.2	30
64	Medium range order around cations in silicate glasses. <i>Chemical Geology</i> , 1996, 128, 77-91.		3.3	29
65	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
66	Lithium borate crystals and glasses: How similar are they? A non-resonant inelastic X-ray scattering study around the B and O K-edges. <i>Journal of Non-Crystalline Solids</i> , 2017, 472, 1-8.		3.1	28
67	Evidence of Ni-containing ordered domains in low-alkali borate glasses. <i>Europhysics Letters</i> , 1999, 45, 572-578.		2.0	26
68	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
69	Silica polymorphs, glass and melt: An in situ high temperature XAS study at the Si K-edge. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1099-1102.		3.1	25
70	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. <i>Journal of Alloys and Compounds</i> , 2019, 780, 137-146.		5.5	25
71	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
72	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

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73	Exploration of glass domain in the SiO ₂ -B ₂ O ₃ -La ₂ O ₃ system. <i>Journal of Non-Crystalline Solids</i> , 2017, 476, 158-172.	3.1	23
74	Speciation Change of Uranyl in Lithium Borate Glasses. <i>Inorganic Chemistry</i> , 2019, 58, 6858-6865.	4.0	23
75	Structural evolution of high zirconia aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2020, 539, 120050.	3.1	23
76	Environment of titanium and aluminum in a magnesium alumino-silicate glass. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 375107.	1.8	22
77	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
78	7C2, the new neutron diffractometer for liquids and disordered materials at LLB. <i>Journal of Physics: Conference Series</i> , 2016, 746, 012020.	0.4	21
79	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
80	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
81	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
82	Crystallization and Glass-Ceramics. <i>Springer Handbooks</i> , 2019, , 113-167.	0.6	19
83	Synthesis, properties and uses of chromium-based pigments from the Manufacture de SÃ©vres. <i>Journal of Cultural Heritage</i> , 2018, 30, 26-33.	3.3	18
84	Transition metals as optically active dopants in glass-ceramics. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	18
85	Spectroscopic properties of Cr^{3+} in the spinel solid solution $\text{ZnAl}_2\text{Cr}_x\text{O}_4$. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 33-42.	0.8	16
86	Structural study of Na ₂ O-B ₂ O ₃ -SiO ₂ -La ₂ O ₃ glasses from molecular simulations using a polarizable force field. <i>Journal of Non-Crystalline Solids</i> , 2018, 499, 371-379.	3.1	16
87	Evolution of the Ni^{2+} Environment During the Formation of a $\text{MgO}-\text{Al}_2\text{O}_3-\text{SiO}_2$ 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
88	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
89	Interaction between Cr-bearing pigments and transparent glaze: A transmission electron microscopy study. <i>Journal of Non-Crystalline Solids</i> , 2017, 459, 184-191.	3.1	15
90	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

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91	Transition Elements and Nucleation in Glasses Using X-ray Absorption Spectroscopy. International Journal of Applied Glass Science, 2014, 5, 126-135.	2.0	14
92	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
93	Structure of single and mixed alkali Li-Rb borate glasses by neutron diffraction. Journal of Non-Crystalline Solids, 2007, 353, 1779-1784.	3.1	13
94	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
95	Structural role of titanium on slag properties. Journal of the American Ceramic Society, 2021, 104, 105-113.	3.8	13
96	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
97	Chemical stability of Ni-enriched nanodomains in alkali borate glasses. Journal of Non-Crystalline Solids, 2003, 321, 197-203.	3.1	11
98	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
99	An O K-edge XANES study of calcium aluminates. Canadian Journal of Chemistry, 2007, 85, 801-805.	1.1	10
100	Spectroscopic Investigation and Crystallization Study of Rare Earth Metaborate Glasses. , 2014, 7, 131-137.		10
101	Vitrification, crystallization behavior and structure of zinc aluminosilicate glasses. Journal of Non-Crystalline Solids, 2021, 555, 120609.	3.1	10
102	Amorphous-amorphous transformation at high pressure in gallo-germanosilicate tetrahedral network glasses. Physical Review B, 2007, 76, .	3.2	9
103	In situ evolution of Ni environment in magnesium aluminosilicate glasses and glass-ceramics-Influence of ZrO ₂ and TiO ₂ nucleating agents. Journal of Physics and Chemistry of Solids, 2015, 78, 137-146.	4.0	9
104	Glasses: Aluminosilicates. , 2021, , 496-518.		9
105	A reverse Monte Carlo study of a titanosilicate glass. Journal of Physics Condensed Matter, 1997, 9, 10129-10136.	1.8	8
106	Vibrational density of states and structural origin of the heat capacity anomalies in Ca ₃ Al ₂ Si ₃ O ₁₂ glasses. Physica B: Condensed Matter, 1997, 241-243, 906-908.	2.7	8
107	Short- and medium-range structural order around cations in glasses: a Multidisciplinary approach. Comptes Rendus Physique, 2001, 2, 249-262.	0.1	8
108	Medium-range order in alkali metaphosphate glasses and melts investigated by reverse Monte Carlo simulations and diffraction analysis. Physical Review B, 2003, 67, .	3.2	8

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109	Thermodynamic insight into the evolution of medieval glassworking properties. <i>Journal of the American Ceramic Society</i> , 2017, 100, 2363-2367.	3.8	8
110	The stability of gahnite doped with chromium pigments in glazes from the French manufacture of Sèvres. <i>Journal of the American Ceramic Society</i> , 2017, 100, 86-95.	3.8	8
111	Multi-Scale Investigation of Body-Glaze Interface in Ancient Ceramics. <i>Heritage</i> , 2019, 2, 2480-2494.	1.9	7
112	Neutron and X-Ray Diffraction of Glass. <i>Springer Handbooks</i> , 2019, , 1047-1094.	0.6	7
113	The lithium environment in lithium diborate glass studied by neutron diffraction with isotopic substitution of Li. <i>Physica B: Condensed Matter</i> , 2004, 350, 258-261.	2.7	6
114	The art of Bernard Palissy (1510–1590): influence of firing conditions on the microstructure of iron-coloured high-lead glazes. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	6
115	Structural evolution at short and medium range distances during crystallization of a $\text{P}_{2}\text{O}_{5}\text{Li}_{2}\text{O}\text{Al}_{2}\text{O}_{3}\text{SiO}_{2}$ glass. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4969-4982.	3.8	6
116	Structural analysis of sputtered amorphous silica thin films: A Raman spectroscopy investigation. <i>Thin Solid Films</i> , 2021, 733, 138811.	1.8	6
117	Determination of the thermal expansion of Cr ³⁺ sites in glasses. <i>Applied Physics Letters</i> , 2006, 88, 121918.	3.3	5
118	Short and medium range structures of 80GeSe ₂ -20Ga ₂ Se ₃ chalcogenide glasses. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 185403.	1.8	5
119	Structural Evolution of Nuclear Glasses under Forcing Conditions (Irradiation, Alteration). <i>Materials Research Society Symposia Proceedings</i> , 2010, 1265, 1.	0.1	4
120	Real-time observation of the isothermal crystallization kinetics in a deeply supercooled liquid. <i>Scientific Reports</i> , 2017, 7, 43671.	3.3	4
121	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
122	Reactivity of chromium-based pigments in a porcelain glaze. <i>Comptes Rendus Physique</i> , 2018, 19, 589-598.	0.9	3
123	Structure of Ga-Sb-Se glasses by combination of ⁷⁷ Se NMR and neutron diffraction experiments with molecular dynamics. <i>Journal of Non-Crystalline Solids</i> , 2021, 557, 120574.	3.1	3
124	Molecular structure of amorphous slags: An experimental and numerical approach. <i>Journal of Non-Crystalline Solids</i> , 2021, 556, 120444.	3.1	3
125	Structure from glass to melt: a case study along the MgSiO_4 – CaSiO_4 join using neutron and X-ray diffraction. <i>Comptes Rendus - Geoscience</i> , 2022, 354, 15-34.	1.2	3
126	Influence of zirconium on cation mobilities in Na ₂ O-CaO-Al ₂ O ₃ -SiO ₂ melts: A multicomponent diffusion and XANES study. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 394-408.	3.9	2

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127	La structure des verres étudiée par diffraction des neutrons. European Physical Journal Special Topics, 2003, 111, 187-210.	0.2	1
128	An In Situ High Temperature Investigation of Cation Environments in Aluminate and Silicate Glasses and Liquids at the LUCIA Beamline. AIP Conference Proceedings, 2007, , .	0.4	1
129	Organization Around Cations in Oxide Glasses Using X-Ray Absorption Spectroscopy. AIP Conference Proceedings, 2003, , .	0.4	0
130	The Silicon Environment in Silica Polymorphs, Aluminosilicate Crystals and Melts: An In Situ High Temperature XAS Study. AIP Conference Proceedings, 2007, , .	0.4	0
131	Couleurs et maux. Des décors de la Manufacture de Sèvres à la réactivité des pigments. , 2019, , 26-29.0.1	0	0