

# Jonathan F Stebbins

## List of Publications by Year in descending order

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174  
papers

11,022  
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16451

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177  
docs citations

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times ranked

4934  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Short-Range Order (SRO) and Structure. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 1-53.	4.8	16
2	Monolayer Support Control and Precise Colloidal Nanocrystals Demonstrate Metal–Support Interactions in Heterogeneous Catalysts. <i>Advanced Materials</i> , 2021, 33, e2104533.	21.0	13
3	Composition and pressure effects on the structure, elastic properties and hardness of aluminoborosilicate glass. <i>Journal of Non-Crystalline Solids</i> , 2020, 530, 119797.	3.1	30
4	Anionic speciation in sodium and potassium silicate glasses near the metasilicate ([Na,K]2SiO3) composition: 29Si, 17O, and 23Na MAS NMR. <i>Journal of Non-Crystalline Solids: X</i> , 2020, 6, 100049.	1.2	8
5	Pentacoordinated silicon in ambient pressure potassium and lithium silicate glasses: Temperature and compositional effects and analogies to alkali borate and germanate systems. <i>Journal of Non-Crystalline Solids: X</i> , 2019, 1, 100012.	1.2	5
6	Tuning the bandgap of Cs <sub>2</sub> AgBiBr <sub>6</sub> through dilute tin alloying. <i>Chemical Science</i> , 2019, 10, 10620-10628.	7.4	58
7	Pentacoordinated and hexacoordinated silicon cations in a potassium silicate glass: Effects of pressure and temperature. <i>Journal of Non-Crystalline Solids</i> , 2019, 505, 234-240.	3.1	19
8	Toward the wider application of 29Si NMR spectroscopy to paramagnetic transition metal silicate minerals and glasses: Fe(II), Co(II), and Ni(II) silicates. <i>American Mineralogist</i> , 2018, 103, 776-791.	1.9	8
9	Free oxide ions in silicate melts: Thermodynamic considerations and probable effects of temperature. <i>Chemical Geology</i> , 2017, 461, 2-12.	3.3	17
10	Solid-state NMR and short-range order in crystalline oxides and silicates: a new tool in paramagnetic resonances. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2017, 73, 128-136.	0.5	14
11	Multinuclear NMR investigation of temperature effects on structural reactions involving non-bridging oxygens in multicomponent oxide glasses. <i>Journal of Non-Crystalline Solids</i> , 2017, 471, 179-186.	3.1	10
12	Structural changes in calcium aluminoborosilicate glasses recovered from pressures of 1.5 to 3 GPa: Interactions of two network species with coordination number increases. <i>Journal of Non-Crystalline Solids</i> , 2017, 478, 50-57.	3.1	25
13	The role of modifier cations in network cation coordination increases with pressure in aluminosilicate glasses and melts from 1 to 3 GPa. <i>American Mineralogist</i> , 2017, 102, 1657-1666.	1.9	15
14	Constraints on aluminum and scandium substitution mechanisms in forsterite, periclase, and larnite: High-resolution NMR. <i>American Mineralogist</i> , 2017, 102, 1244-1253.	1.9	9
15	Bond length-bond angle correlation in densified silica—Results from 17O NMR spectroscopy. <i>Journal of Chemical Physics</i> , 2017, 146, .	3.0	42
16	Toward the wider application of 29Si NMR spectroscopy to paramagnetic transition metal silicate minerals: Copper(II) silicates. <i>American Mineralogist</i> , 2017, 102, 2406-2414.	1.9	8
17	Network oxygen sites in calcium aluminoborosilicate glasses: Results from 17O{27Al} and 17O{11B} double resonance NMR. <i>Journal of Non-Crystalline Solids</i> , 2016, 447, 248-254.	3.1	17
18	Response of complex networks to compression: Ca, La, and Y aluminoborosilicate glasses formed from liquids at 1 to 3 GPa pressures. <i>Journal of Chemical Physics</i> , 2016, 144, 044502.	3.0	21

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19	Class structure, melt structure, and dynamics: Some concepts for petrology. <i>American Mineralogist</i> , 2016, 101, 753-768.	1.9	33
20	Transition Metal Dopant Cation Distributions in MgO and CaO: New Inferences from Paramagnetically Shifted Resonances in $^{17}\text{O}$ , $^{25}\text{Mg}$ , and $^{43}\text{Ca}$ NMR Spectra. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11111-11120.	3.1	14
21	Detection of "free" oxide ions in low-silica Ca/Mg silicate glasses: Results from $^{17}\text{O}$ and $^{29}\text{Si}$ HETCOR NMR. <i>Journal of Non-Crystalline Solids</i> , 2016, 445-446, 1-6.	3.1	17
22	Investigating lanthanide dopant distributions in Yttrium Aluminum Garnet (YAG) using solid state paramagnetic NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2016, 79, 11-22.	2.3	18
23	Order, disorder and mixing: The atomic structure of amorphous mixtures of titania and tantalum. <i>Journal of Non-Crystalline Solids</i> , 2016, 438, 59-66.	3.1	9
24	Separating the effects of composition and fictive temperature on Al and B coordination in Ca, La, Y aluminosilicate, aluminoborosilicate and aluminoborate glasses. <i>Journal of Non-Crystalline Solids</i> , 2016, 432, 384-392.	3.1	20
25	Cation order-disorder in Fe-bearing pyrope and grossular garnets: A $^{27}\text{Al}$ and $^{29}\text{Si}$ MAS NMR and $^{57}\text{Fe}$ Mossbauer spectroscopy study. <i>American Mineralogist</i> , 2015, 100, 536-547.	1.9	25
26	Transition metal cation site preferences in forsterite ( $\text{Mg}_2\text{SiO}_4$ ) determined from paramagnetically shifted NMR resonances. <i>American Mineralogist</i> , 2015, 100, 1265-1276.	1.9	19
27	An investigation of local $\text{Fe}^{2+}$ order-disorder in a mantle grosspyrope garnet using paramagnetically shifted $^{27}\text{Al}$ and $^{29}\text{Si}$ MAS NMR resonances. <i>European Journal of Mineralogy</i> , 2015, 27, 463-470.	1.3	3
28	Order within disorder: The atomic structure of ion-beam sputtered amorphous tantalum ( $\alpha\text{-Ta}_2\text{O}_5$ ). <i>APL Materials</i> , 2015, 3, .	5.1	17
29	Tricluster oxygen atoms in crystalline and glassy $\text{SrB}_4\text{O}_7$ : High resolution $^{11}\text{B}$ and $^{17}\text{O}$ nuclear magnetic resonance analysis. <i>Journal of Non-Crystalline Solids</i> , 2015, 428, 105-111.	3.1	5
30	Structure of amorphous silica-hafnia and silica-zirconia thin-film materials: The role of a metastable equilibrium state in non-glass-forming oxide systems. <i>Journal of Non-Crystalline Solids</i> , 2015, 429, 5-12.	3.1	9
31	Aluminosilicate melts and glasses at 1 to 3 GPa: Temperature and pressure effects on recovered structural and density changes. <i>American Mineralogist</i> , 2015, 100, 2298-2307.	1.9	40
32	15. NMR Spectroscopy of Inorganic Earth Materials. , 2014, , 605-654.		5
33	Cation Field Strength Effects on Boron Coordination in Binary Borate Glasses. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2794-2801.	3.8	70
34	Modifier cation (Ba, Ca, La, Y) field strength effects on aluminum and boron coordination in aluminoborosilicate glasses: the roles of fictive temperature and boron content. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 479-490.	2.3	53
35	The structure of ion beam sputtered amorphous alumina films and effects of Zn doping: High-resolution $^{27}\text{Al}$ NMR. <i>Journal of Non-Crystalline Solids</i> , 2014, 405, 1-6.	3.1	21
36	Interaction between composition and temperature effects on non-bridging oxygen and high-coordinated aluminum in calcium aluminosilicate glasses. <i>American Mineralogist</i> , 2013, 98, 1980-1987.	1.9	14

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37	31P Magic Angle Spinning NMR Study of Flux-Grown Rare-Earth Element Orthophosphate (Monazite/Xenotime) Solid Solutions: Evidence of Random Cation Distribution from Paramagnetically Shifted NMR Resonances. <i>Inorganic Chemistry</i> , 2013, 52, 12605-12615.	4.0	20
38	Temperature and modifier cation field strength effects on aluminoborosilicate glass network structure. <i>Journal of Non-Crystalline Solids</i> , 2013, 362, 73-81.	3.1	91
39	Effects of annealing on the structure of ion beam sputtered amorphous tantalum oxide: Oxygen-17 NMR spectra and relaxation times. <i>Journal of Non-Crystalline Solids</i> , 2013, 378, 158-162.	3.1	14
40	Interactions between network cation coordination and non-bridging oxygen abundance in oxide glasses and melts: Insights from NMR spectroscopy. <i>Chemical Geology</i> , 2013, 346, 34-46.	3.3	67
41	Tunable Plasticity in Amorphous Silicon Carbide Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 7950-7955.	8.0	18
42	Oxide ion speciation in potassium silicate glasses: New limits from 17O NMR. <i>Journal of Non-Crystalline Solids</i> , 2013, 368, 17-22.	3.1	32
43	Nuclear Magnetic Resonance Spectroscopy of Silicates and Oxides in Geochemistry and Geophysics. <i>AGU Reference Shelf</i> , 2013, , 303-331.	0.6	27
44	Characterization of Crystalline and Amorphous Silicates Quenched from High Pressure by 29Si MAS NMR Spectroscopy. <i>Geophysical Monograph Series</i> , 2013, , 89-100.	0.1	7
45	Natural hydrous amorphous silica: Quantitation of network speciation and hydroxyl content by 29Si MAS NMR and vibrational spectroscopy. <i>American Mineralogist</i> , 2012, 97, 203-211.	1.9	38
46	Incorporation of Fe and Al in MgSiO3 perovskite: An investigation by 27Al and 29Si NMR spectroscopy. <i>American Mineralogist</i> , 2012, 97, 1955-1964.	1.9	18
47	Non-stoichiometric non-bridging oxygens and five-coordinated aluminum in alkaline earth aluminosilicate glasses: Effect of modifier cation size. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1783-1789.	3.1	70
48	Properties of impurity-bearing ferrihydrite I. Effects of Al content and precipitation rate on the structure of 2-line ferrihydrite. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 92, 275-291.	3.9	96
49	Challenges in Ceramic Science: A Report from the Workshop on Emerging Research Areas in Ceramic Science. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3699-3712.	3.8	59
50	Estimating accuracy of 17O NMR measurements in oxide glasses: Constraints and evidence from crystalline and glassy calcium and barium silicates. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2999-3006.	3.1	30
51	Variable-temperature 27Al and 29Si NMR studies of synthetic forsterite and Fe-bearing Dora Maira pyrope garnet: Temperature dependence and mechanisms of paramagnetically shifted peaks. <i>American Mineralogist</i> , 2011, 96, 1090-1099.	1.9	25
52	Structure of Amorphous Tantalum Oxide and Titania-Doped Tantalum: <sup>17</sup> O NMR Results for Sol-Gel and Ion-Beam-Sputtered Materials. <i>Chemistry of Materials</i> , 2011, 23, 3460-3465.	6.7	32
53	High-temperature in situ 11B NMR study of network dynamics in boron-containing glass-forming liquids. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 3944-3951.	3.1	27
54	Raman, Brillouin, and nuclear magnetic resonance spectroscopic studies on shocked borosilicate glass. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	53

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55	Temperature calibration for high-temperature MAS NMR to 913K: $^{63}\text{Cu}$ MAS NMR of $\text{CuBr}$ and $\text{CuI}$ , and $^{23}\text{Na}$ MAS NMR of $\text{NaNbO}_3$ . <i>Solid State Nuclear Magnetic Resonance</i> , 2011, 40, 45-50.	2.3	21
56	Paramagnetic interactions in the $^{31}\text{P}$ NMR spectroscopy of rare earth element orthophosphate ( $\text{REPO}_4$ ). <i>Journal of Non-Crystalline Solids</i> , 2011, 356, 2097-2108.	1.9	30
57	Non-bridging oxygen and high-coordinated aluminum in metaluminous and peraluminous calcium and potassium aluminosilicate glasses: High-resolution $^{17}\text{O}$ and $^{27}\text{Al}$ MAS NMR results. <i>American Mineralogist</i> , 2011, 96, 841-853.	1.9	71
58	Silicon coordination in rutile and $\text{TiO}_2$ -II at ambient and high pressures: $^{29}\text{Si}$ NMR. <i>American Mineralogist</i> , 2010, 95, 968-973.	1.9	4
59	Effects of e-beam curing on glass structure and mechanical properties of nanoporous organosilicate thin films. <i>International Journal of Materials Research</i> , 2010, 101, 228-235.	0.3	3
60	Probing the electrical properties of highly-doped $\text{Al:ZnO}$ nanowire ensembles. <i>Journal of Applied Physics</i> , 2010, 107, 074312.	2.5	36
61	Quench rate and temperature effects on boron coordination in aluminoborosilicate melts. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2097-2108.	3.1	89
62	Forsterite, wadsleyite, and ringwoodite ( $\text{Mg}_2\text{SiO}_4$ ): $^{29}\text{Si}$ NMR constraints on structural disorder and effects of paramagnetic impurity ions. <i>American Mineralogist</i> , 2009, 94, 626-629.	1.9	32
63	Simultaneous aluminum, silicon, and sodium coordination changes in 6 GPa sodium aluminosilicate glasses. <i>American Mineralogist</i> , 2009, 94, 1205-1215.	1.9	70
64	Structural response of a highly viscous aluminoborosilicate melt to isotropic and anisotropic compressions. <i>Journal of Chemical Physics</i> , 2009, 131, .	3.0	74
65	Confirmation of octahedrally coordinated phosphorus in $\text{AlPO}_4$ -containing stishovite by $^{31}\text{P}$ NMR. <i>European Journal of Mineralogy</i> , 2009, 21, 667-671.	1.3	11
66	Characterization of Phase Separation and Thermal History Effects in Magnesium Silicate Glass Fibers by Nuclear Magnetic Resonance Spectroscopy. <i>Journal of the American Ceramic Society</i> , 2009, 92, 68-74.	3.8	19
67	Effects of the degree of polymerization on the structure of sodium silicate and aluminosilicate glasses and melts: An $^{17}\text{O}$ NMR study. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1109-1119.	3.9	88
68	Cation field strength effects on high pressure aluminosilicate glass structure: Multinuclear NMR and La XAFS results. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3914-3933.	3.9	88
69	Effects of cation field strength on the structure of aluminoborosilicate glasses: High-resolution $^{11}\text{B}$ , $^{27}\text{Al}$ and $^{23}\text{Na}$ MAS NMR. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 556-562.	3.1	116
70	$\text{Sc}_2(\text{WO}_4)_3$ and $\text{Sc}_2(\text{MoO}_4)_3$ and Their Solid Solutions: $^{45}\text{Sc}$ , $^{17}\text{O}$ , and $^{27}\text{Al}$ MAS NMR Results at Ambient and High Temperature. <i>Chemistry of Materials</i> , 2009, 21, 309-315.	6.7	26
71	Anomalous resonances in $^{29}\text{Si}$ and $^{27}\text{Al}$ NMR spectra of pyrope ( $[\text{Mg,Fe}]_3\text{Al}_2\text{Si}_3\text{O}_{12}$ ) garnets: effects of paramagnetic cations. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6906.	2.8	26
72	Forsterite, hydrous and anhydrous wadsleyite and ringwoodite ( $\text{Mg}_2\text{SiO}_4$ ): $^{29}\text{Si}$ NMR results for chemical shift anisotropy, spin-lattice relaxation, and mechanism of hydration. <i>American Mineralogist</i> , 2009, 94, 905-915.	1.9	28

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73	The Diversity of Nuclear Magnetic Resonance Spectroscopy. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 65-81.	0.3	0
74	Cation order/disorder behavior and crystal chemistry of pyrope-grossular garnets: An <sup>17</sup> O 3QMAS and <sup>27</sup> Al MAS NMR spectroscopic study. American Mineralogist, 2008, 93, 134-143.	1.9	22
75	High resolution <sup>17</sup> O MAS and triple-quantum MAS NMR studies of gallosilicate glasses. Journal of Non-Crystalline Solids, 2008, 354, 3120-3128.	3.1	13
76	Ca-Mg mixing in aluminosilicate glasses: An investigation using <sup>17</sup> O MAS and 3QMAS and <sup>27</sup> Al MAS NMR. Journal of Non-Crystalline Solids, 2008, 354, 4644-4653.	3.1	74
77	Temperature effects on the network structure of oxide melts and their consequences for configurational heat capacity. Chemical Geology, 2008, 256, 80-91.	3.3	51
78	Temperature effects on non-bridging oxygen and aluminum coordination number in calcium aluminosilicate glasses and melts. Geochimica Et Cosmochimica Acta, 2008, 72, 910-925.	3.9	163
79	Effects of UV cure on glass structure and fracture properties of nanoporous carbon-doped oxide thin films. Journal of Applied Physics, 2008, 104, 043513.	2.5	32
80	Constraining <sup>17</sup> O and <sup>27</sup> Al NMR spectra of high-pressure crystals and glasses: New data for jadeite, pyrope, grossular, and mullite. American Mineralogist, 2007, 92, 210-216.	1.9	27
81	Effect of structural transitions on properties of high-pressure silicate melts: <sup>27</sup> Al NMR, glass densities, and melt viscosities. American Mineralogist, 2007, 92, 1093-1104.	1.9	111
82	Germanosilicate and alkali germanosilicate glass structure: New insights from high-resolution oxygen-17 NMR. Journal of Non-Crystalline Solids, 2007, 353, 2910-2918.	3.1	29
83	In situ high temperature <sup>27</sup> Al NMR study of structure and dynamics in a calcium aluminosilicate glass and melt. Journal of Non-Crystalline Solids, 2007, 353, 4001-4010.	3.1	53
84	Sodium germanate glasses and crystals: NMR constraints on variation in structure with composition. Journal of Non-Crystalline Solids, 2007, 353, 4732-4742.	3.1	29
85	Scandium-45 NMR of pyrope-grossular garnets: Resolution of multiple scandium sites and comparison with X-ray diffraction and X-ray absorption spectroscopy. American Mineralogist, 2007, 92, 1875-1880.	1.9	15
86	Aluminum Substitution in Rutile Titanium Dioxide: New Constraints from High-Resolution <sup>27</sup> Al NMR. Chemistry of Materials, 2007, 19, 1862-1869.	6.7	29
87	Vacancy and Cation Distribution in Yttria-Doped Ceria: An <sup>89</sup> Y and <sup>17</sup> O MAS NMR Study. Chemistry of Materials, 2007, 19, 5742-5747.	6.7	75
88	High temperature <sup>17</sup> O MAS NMR study of calcia, magnesia, scandia and yttria stabilized zirconia. Solid State Ionics, 2007, 178, 1499-1506.	2.7	25
89	Quench rate and temperature effects on framework ordering in aluminosilicate melts. American Mineralogist, 2006, 91, 753-761.	1.9	64
90	Scandium Coordination in Solid Oxides and Stabilized Zirconia: <sup>45</sup> Sc NMR. Chemistry of Materials, 2006, 18, 3855-3859.	6.7	73

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91	Oxygen Sites and Network Coordination in Sodium Germanate Glasses and Crystals: A High-Resolution Oxygen-17 and Sodium-23 NMR. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12427-12437.	2.6	39
92	Physics, chemistry and rheology of silicate melts and glasses. <i>Chemical Geology</i> , 2006, 229, 1.	3.3	6
93	Disorder and the extent of polymerization in calcium silicate and aluminosilicate glasses: O-17 NMR results and quantum chemical molecular orbital calculations. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 4275-4286.	3.9	108
94	The Effect of Fictive Temperature on the Structural Environment of Fluorine in Silicate and Aluminosilicate Glasses. <i>Journal of the American Ceramic Society</i> , 2006, 89, 57-64.	3.8	23
95	The development of a rapid quenching device for the study of the dependence of glass structure on fictive temperature. <i>Review of Scientific Instruments</i> , 2006, 77, 013901.	1.3	11
96	Aluminum substitution in stishovite and MgSiO <sub>3</sub> perovskite: High-resolution <sup>27</sup> Al NMR. <i>American Mineralogist</i> , 2006, 91, 337-343.	1.9	23
97	Site connectivities in sodium aluminoborate glasses: multinuclear and multiple quantum NMR results. <i>Solid State Nuclear Magnetic Resonance</i> , 2005, 27, 37-49.	2.3	82
98	The effect of fictive temperature on Al coordination in high-pressure (10 GPa) sodium aluminosilicate glasses. <i>American Mineralogist</i> , 2005, 90, 1453-1457.	1.9	83
99	Network connectivity in aluminoborosilicate glasses: A high-resolution <sup>11</sup> B, <sup>27</sup> Al and <sup>17</sup> O NMR study. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 3508-3520.	3.1	202
100	The effect of fictive temperature on the structure of E-glass: A high resolution, multinuclear NMR study. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 3571-3578.	3.1	58
101	Aluminum coordination and the densification of high-pressure aluminosilicate glasses. <i>American Mineralogist</i> , 2005, 90, 1218-1222.	1.9	201
102	The effect of composition, compression, and decompression on the structure of high-pressure aluminosilicate glasses: an investigation utilizing <sup>17</sup> O and <sup>27</sup> Al NMR. , 2005, , 211-240.		3
103	Correlated structural distributions in silica glass. <i>Physical Review B</i> , 2004, 70, .	3.2	120
104	Ca-Mg and K-Mg mixing around non-bridging O atoms in silicate glasses: An investigation using <sup>17</sup> O MAS and <sup>3</sup> QMAS NMR. <i>American Mineralogist</i> , 2004, 89, 777-784.	1.9	97
105	Calcium and Strontium Hexaluminates: NMR Evidence that $\alpha$ -Pentacoordinate Cation Sites Are Four-Coordinated.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
106	Calcium and Strontium Hexaluminates: A NMR Evidence that $\alpha$ -Pentacoordinate Cation Sites Are Four-Coordinated. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3681-3685.	2.6	29
107	Structural mechanisms of compression and decompression in high-pressure K <sub>2</sub> Si <sub>4</sub> O <sub>9</sub> glasses: an investigation utilizing Raman and NMR spectroscopy of glasses and crystalline materials. <i>Chemical Geology</i> , 2004, 213, 137-151.	3.3	71
108	Structure of Cl-containing silicate and aluminosilicate glasses: A <sup>35</sup> Cl MAS-NMR study. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 5059-5069.	3.9	89

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109	Pressure-induced structural changes in a borosilicate glass-forming liquid: boron coordination, non-bridging oxygens, and network ordering. <i>Journal of Non-Crystalline Solids</i> , 2004, 337, 196-200.	3.1	82
110	F-19 NMR study of the ordering of high field strength cations at fluoride sites in silicate and aluminosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2004, 337, 142-149.	3.1	60
111	<sup>17</sup> O and <sup>27</sup> Al MAS and <sup>3</sup> QMAS NMR Study of Synthetic and Natural Layer Silicates.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
112	Site Preference and Si/B Mixing in Mixed-Alkali Borosilicate Glasses: A High-Resolution <sup>11</sup> B and <sup>17</sup> O NMR Study.. <i>ChemInform</i> , 2003, 34, no.	0.0	2
113	Nature of Silicon and Boron Mixing in Sodium Borosilicate Glasses: A High-Resolution <sup>11</sup> B and <sup>17</sup> O NMR Study. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10063-10076.	2.6	206
114	Nature of Cation Mixing and Ordering in Na-Ca Silicate Glasses and Melts. <i>Journal of Physical Chemistry B</i> , 2003, 107, 3141-3148.	2.6	142
115	<sup>17</sup> O and <sup>27</sup> Al MAS and <sup>3</sup> QMAS NMR Study of Synthetic and Natural Layer Silicates. <i>Chemistry of Materials</i> , 2003, 15, 2605-2613.	6.7	35
116	Solid-state NMR study of metastable immiscibility in alkali borosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2003, 315, 239-255.	3.1	219
117	The distribution of sodium ions in aluminosilicate glasses: a high-field Na- <sup>23</sup> MAS and <sup>3</sup> Q MAS NMR study. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1699-1709.	3.9	139
118	Site Preference and Si/B Mixing in Mixed-Alkali Borosilicate Glasses: A High-Resolution <sup>11</sup> B and <sup>17</sup> O NMR Study. <i>Chemistry of Materials</i> , 2003, 15, 3913-3921.	6.7	102
119	Bonding preferences of non-bridging O atoms: Evidence from <sup>17</sup> O MAS and <sup>3</sup> QMAS NMR on calcium aluminate and low-silica Ca-aluminosilicate glasses. <i>American Mineralogist</i> , 2003, 88, 949-954.	1.9	160
120	O atom sites in natural kaolinite and muscovite: <sup>17</sup> O MAS and <sup>3</sup> QMAS NMR study. <i>American Mineralogist</i> , 2003, 88, 493-500.	1.9	29
121	Aluminum substitution in MgSiO <sub>3</sub> perovskite: Investigation of multiple mechanisms by <sup>27</sup> Al NMR: Figure 1.. <i>American Mineralogist</i> , 2003, 88, 1161-1164.	1.9	32
122	Chloride ion sites in silicate and aluminosilicate glasses: A preliminary study by <sup>35</sup> Cl solid-state NMR. <i>American Mineralogist</i> , 2002, 87, 359-363.	1.9	64
123	Disordering during melting: An <sup>17</sup> O NMR Study of crystalline and glassy CaTiSiO <sub>5</sub> (titanite). <i>American Mineralogist</i> , 2002, 87, 572-579.	1.9	23
124	MATERIALS SCIENCE: Dynamics in Ceramics. <i>Science</i> , 2002, 297, 1285-1287.	12.6	8
125	Oxygen sites in hydrous aluminosilicate glasses: the role of Al-O-Al and H <sub>2</sub> O. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 291-301.	3.9	42
126	Fluorine sites in calcium and barium oxyfluorides: F-19 NMR on crystalline model compounds and glasses. <i>Journal of Non-Crystalline Solids</i> , 2002, 306, 160-168.	3.1	112



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127	Effect of extraframework species on O NMR chemical shifts in zeolite A. <i>Microporous and Mesoporous Materials</i> , 2002, 55, 239-251.	4.4	25
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129	Three-Coordinated Boron-11 Chemical Shifts in Borates. <i>Inorganic Chemistry</i> , 2001, 40, 6239-6246.	4.0	222
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131	Enhanced resolution and quantitation from 'ultra-high' field NMR spectroscopy of glasses. <i>Journal of Non-Crystalline Solids</i> , 2001, 293-295, 440-445.	3.1	45
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133	Potassium hydrogen disilicate: A possible model compound for $^{17}\text{O}$ NMR spectra of hydrous silicate glasses. <i>American Mineralogist</i> , 2001, 86, 341-347.	1.9	21
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139	Quantification of five- and six-coordinated aluminum ions in aluminosilicate and fluoride-containing glasses by high-field, high-resolution $^{27}\text{Al}$ NMR. <i>Journal of Non-Crystalline Solids</i> , 2000, 275, 1-6.	3.1	233
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