

Sixfold-Coordinated Amorphous Polymorph of SiO_2
High Pressure

Physical Review Letters

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Citation Report

#	ARTICLE	IF	CITATIONS
1	High pressure transition in amorphous As ₂ S ₃ studied by EXAFS. Journal of Chemical Physics, 2009, 131, 224502.	3.0	18
2	Comment on "Sixfold-Coordinated Amorphous Polymorph of SiO_2 under High Pressure". Physical Review Letters, 2009, 102, 209603; discussion 209604.	7.8	17
3	Sato and Funamori Reply:. Physical Review Letters, 2009, 102, .	7.8	11
4	In situ high pressure and high temperature Raman studies of $(\text{SiO}_2)_x(\text{GeO}_2)_{1-x}$ glasses. Journal of Physics Condensed Matter, 2009, 21, 375109.	1.8	11
5	Polyamorphic transformation induced by electron irradiation in SiO_2 glass. Physical Review B, 2009, 80, .	3.2	27
6	Structure of Amorphous Aluminum Oxide. Physical Review Letters, 2009, 103, 095501.	7.8	149
7	A new EXAFS investigation of local structural changes in amorphous and crystalline GeO_2 at high pressure. Journal of Physics Condensed Matter, 2009, 21, 145403.	1.8	55
8	High-pressure x-ray diffraction measurements on vitreous GeO_2 under hydrostatic conditions. Physical Review B, 2010, 81, .	3.2	53
9	Effects of pressure on the boson peak of tellurite		

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19	Amorphous Materials at High Pressure. NATO Science for Peace and Security Series B: Physics and Biophysics, 2010, , 459-468.	0.3	1
20	Helium penetrates into silica glass and reduces its compressibility. Nature Communications, 2011, 2, 345.	12.8	88
21	Atomistic modeling of multiple amorphous-amorphous transitions in SiO ₂ and GeO ₂ glass. Physical Review B, 2011, 84, .	3.2	31
22	Quenchable high-density amorphous polymorphs of zirconium tungstate. Journal of Physics Condensed Matter, 2011, 23, 112207.	1.8	6
23	Compression behavior of densified SiO ₂ glass. Physical Review B, 2011, 84, .	3.2	57
24	Effect of helium on structure and compression behavior of SiO ₂ glass. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6004-6007.	7.1	67
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26	Absolute x-ray energy calibration over a wide energy range using a diffraction-based iterative method. Review of Scientific Instruments, 2012, 83, 063901.	1.3	17
27	Pressure-induced structural change of intermediate-range order in poly(4-methyl-1-pentene) melt. Physical Review E, 2012, 85, 021807.	2.1	21
28	Structure and Properties of Dense Silica Glass. Scientific Reports, 2012, 2, 398.	3.3	80
29	Density-driven structural transformations in network forming glasses: a high-pressure neutron diffraction study of GeO ₂ glass up to 17.5 GPa. Journal of Physics Condensed Matter, 2012, 24, 415102.	1.8	45
30	Shock compression of porous metals and silicates. Physics-Uspekhi, 2012, 55, 773-789.	2.2	37
31	Mechanism of densification in silica glass under pressure as revealed by a bottom-up pairwise effective interaction model. Journal of Chemical Physics, 2012, 136, 134508.	3.0	22
32	Vitreous Silica Distends in Helium Gas: Acoustic Versus Static Compressibilities. Physical Review Letters, 2012, 109, 245504.	7.8	31
33	Equation of state of silicate melts with densified intermediate-range order at the pressure condition of the Earth's deep upper mantle. Physics and Chemistry of Minerals, 2013, 40, 299-307.	0.8	10
34	Structure and density of molten fayalite at high pressure. Geochimica Et Cosmochimica Acta, 2013, 118, 118-128.	3.9	51
35	Structural change in molten basalt at deep mantle conditions. Nature, 2013, 503, 104-107.	27.8	145
36	Argon solubility in SiO ₂ melt under high pressures: A new experimental result using laser-heated diamond anvil cell. Earth and Planetary Science Letters, 2013, 363, 1-8.	4.4	16

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38	High-pressure X-ray absorption fine structure in the diamond anvil cell and its applications in geological materials. Journal of Physics: Conference Series, 2013, 430, 012120.	0.4	4
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44	Atomistic insight into viscosity and density of silicate melts under pressure. Nature Communications, 2014, 5, 3241.	12.8	133
45	Structural, electronic and optical properties of a large random network model of amorphous SiO ₂ glass. Journal of Non-Crystalline Solids, 2014, 383, 28-32.	3.1	56
46	Pressure-induced amorphization and polyamorphism: Inorganic and biochemical systems. Progress in Materials Science, 2014, 61, 216-282.	32.8	124
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54	Iron spin state in silicate glass at high pressure: Implications for melts in the Earth's lower mantle. Earth and Planetary Science Letters, 2014, 385, 130-136.	4.4	16

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55	Structure and Properties of Silica Glass Densified in Cold Compression and Hot Compression. Scientific Reports, 2015, 5, 15343.	3.3	112
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68	Analysis of the upconversion photoluminescence spectra as a probe of local microstructure in Y ₂ O ₃ /Eu ³⁺ nanotubes under high pressure. RSC Advances, 2015, 5, 3130-3134.	3.6	10
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78	Direct tomography imaging for inelastic X-ray scattering experiments at high pressure. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 269-275.	2.4	23
79	Ion irradiation induced structural modifications and increase in elastic modulus of silica based thin films. <i>Scientific Reports</i> , 2017, 7, 40100.	3.3	28
80	Local microstructural analysis for $Y_2O_3/Eu^{3+}/Mg^{2+}$ nanorods by Raman and photoluminescence spectra under high pressure. <i>Chinese Physics B</i> , 2017, 26, 026101.	1.4	4
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83	Relaxation processes of densified silica glass. <i>Journal of Chemical Physics</i> , 2017, 146, .	3.0	30
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159	Experimental evidence of tetrahedral symmetry breaking in SiO ₂ glass under pressure. <i>Nature Communications</i> , 2022, 13, 2292.	12.8	6
160	From Short to Medium Range Order in Glasses and Melts by Diffraction and Raman Spectroscopy. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 55-103.	4.8	18
161	The Short-Range Order (SRO) and Structure. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 1-53.	4.8	16
162	Acoustic Wave Velocities of Ferrous-Bearing MgSiO ₃ Glass up to 158 GPa With Implications for Dense Silicate Melts at the Base of the Earth's Mantle. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	1
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170	Quantitative mapping of transient thermodynamic states in ultrafast laser nanostructuring of quartz. <i>Ultrafast Science</i> , 0, , .	11.2	0
171	Pressure dependent structure of amorphous magnesium aluminosilicates: The effect of replacing magnesia by alumina at the enstatite composition. <i>Journal of Chemical Physics</i> , 2024, 160, .	3.0	0
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