

Masami Kanzaki

List of Publications by Year in descending order

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75
papers

2,617
citations

172207

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78
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#	ARTICLE	IF	CITATIONS
1	Raman spectroscopic study of pressure-induced phase transitions in tridymite modifications. Journal of Mineralogical and Petrological Sciences, 2021, , .	0.4	1
2	CO ₂ distribution in CO ₂ -rich melanophlogite from Fortunillo, Tuscany, Italy. Journal of Mineralogical and Petrological Sciences, 2020, 115, 471-478.	0.4	2
3	Phase transitions of tridymite MC: A low frequency Raman spectroscopic study. Journal of Mineralogical and Petrological Sciences, 2020, 115, 296-301.	0.4	1
4	High-temperature Raman spectroscopic study of CO ₂ -containing melanophlogite. Journal of Mineralogical and Petrological Sciences, 2019, 114, 122-129.	0.4	6
5	Raman spectra of tridymite modifications: MC, MX ¹ , and PO ¹⁰ . Journal of Mineralogical and Petrological Sciences, 2019, 114, 214-218.	0.4	5
6	Carbonate speciation in depolymerized and polymerized (alumino)silicate glasses: Constraints from ¹³ C MAS and static NMR measurements and ab initio calculations. Chemical Geology, 2018, 479, 151-165.	1.4	11
7	Pressure-induced phase transitions of Zn ₂ SiO ₄ III and IV studied using in-situ Raman spectroscopy. Journal of Mineralogical and Petrological Sciences, 2018, 113, 263-267.	0.4	0
8	Temperature-induced phase transition of AlPO ₄ moganite studied by in-situ Raman spectroscopy. Journal of Mineralogical and Petrological Sciences, 2018, 113, 126-134.	0.4	3
9	Crystal structures of Zn ₂ GeO ₄ cubic/tetragonal spinel and Zn ₂ SiO ₄ modified spinel phases. Journal of Mineralogical and Petrological Sciences, 2018, 113, 41-46.	0.4	8
10	Hydrogen incorporation mechanisms in forsterite: New insights from ¹ H and ²⁹ Si NMR spectroscopy and first-principles calculation. American Mineralogist, 2017, 102, 519-536.	0.9	25
11	Crystal structures of two oxygen-deficient perovskite phases in the CaSiO ₃ -CaAlO _{2.5} join. Physics and Chemistry of Minerals, 2017, 44, 717-733.	0.3	3
12	Protoenstatite in MgSiO ₃ samples prepared by conventional solid state reaction. Journal of Mineralogical and Petrological Sciences, 2017, 112, 359-364.	0.4	11
13	Hydrogen distribution in chondrodite: a first-principles calculation. Journal of Mineralogical and Petrological Sciences, 2016, 111, 425-430.	0.4	2
14	In situ structural changes of amorphous diopside (CaMgSi ₂ O ₆) up to 20 GPa: A Raman and O K-edge X-ray Raman spectroscopic study. Geochimica Et Cosmochimica Acta, 2016, 178, 41-61.	1.6	26
15	Cation distribution in Mg-Zn olivine solid solution: a ²⁹ Si MAS NMR and first-principles calculation study. Journal of Mineralogical and Petrological Sciences, 2016, 111, 292-296.	0.4	9
16	Phase diagram and thermodynamic properties of AlPO ₄ based on first-principles calculations and the quasi-harmonic approximation. Physics and Chemistry of Minerals, 2015, 42, 15-27.	0.3	4
17	Crystal structures of Zn ₂ SiO ₄ III and IV synthesized at 6.5-8 GPa and 1,273 K. Physics and Chemistry of Minerals, 2013, 40, 467-478.	0.3	9
18	Characterization of Crystalline and Amorphous Silicates Quenched from High Pressure by ²⁹ Si MAS NMR Spectroscopy. Geophysical Monograph Series, 2013, , 89-100.	0.1	7

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19	Separation of supercritical slab-fluids to form aqueous fluid and melt components in subduction zone magmatism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18695-18700.	3.3	88
20	Structural Characterization of Moganite-Type AlPO_4 by NMR and Powder X-ray Diffraction. Inorganic Chemistry, 2012, 51, 6164-6172.	1.9	19
21	Distinct ^{29}Si MAS NMR Peaks from Si-Al Permutation on Neighboring T Sites of Unequal Si-O-T Angles: Direct Evidence from ^1J -Resolved Experiment on K-Cymrite ($\text{KAl}_3\text{Si}_3\text{O}_8\text{H}_2\text{O}$). Journal of Physical Chemistry C, 2012, 116, 10714-10722.	1.5	7
22	Measurements of density distribution around Vickers indentation on commercial aluminoborosilicate and soda-lime silicate glasses by using micro Raman spectroscopy. Journal of Non-Crystalline Solids, 2012, 358, 3473-3480.	1.5	26
23	Raman and NMR spectroscopic characterization of high-pressure K-cymrite ($\text{KAl}_3\text{Si}_3\text{O}_8\text{H}_2\text{O}$) and its anhydrous form (kokchetavite). Journal of Mineralogical and Petrological Sciences, 2012, 107, 114-119.	0.4	26
24	Structures of two new high-pressure forms of AlPO_4 by X-ray powder diffraction and NMR spectroscopy. Acta Crystallographica Section B: Structural Science, 2011, 67, 30-40.	1.8	12
25	Synthesis and characterization of strontium-calcium phosphate $\text{Ca}_3\text{Sr}_x(\text{PO}_4)_2$. Materials Chemistry and Physics, 2010, 120, 348-350.	2.0	9
26	Crystal structure of a new high-pressure polymorph of topaz-OH. American Mineralogist, 2010, 95, 1349-1352.	0.9	18
27	Unique crystal chemistry of two polymorphs of topaz-OH: A multi-nuclear NMR and Raman study. American Mineralogist, 2010, 95, 1276-1293.	0.9	19
28	Structural Transformations and Anomalous Viscosity in the B_2O_3 Melt under High Pressure. Physical Review Letters, 2010, 105, 115701.	2.9	48
29	X-ray Raman scattering for structural investigation of silica/silicate minerals. Physics and Chemistry of Minerals, 2009, 36, 171-181.	0.3	19
30	Proton Distributions and Hydrogen Bonding in Crystalline and Glassy Hydrated Silicates and Related Inorganic Materials: Insights from High-Resolution Solid-State Nuclear Magnetic Resonance Spectroscopy. Journal of the American Ceramic Society, 2009, 92, 2803-2830.	1.9	85
31	Pressure-induced phase transitions of AX_2 -type iron pnictides: an <i>ab initio</i> study. Journal of Physics Condensed Matter, 2009, 21, 185403.	0.7	17
32	Viscosity Behavior Spanning Four Orders of Magnitude in As-S Melts under High Pressure. Physical Review Letters, 2009, 102, 115901.	2.9	20
33	Structural study of FeP_2 at high pressure. High Pressure Research, 2009, 29, 235-244.	0.4	15
34	Si-Al distribution in high-pressure $\text{CaAl}_4\text{Si}_2\text{O}_{11}$ phase: A ^{29}Si and ^{27}Al NMR study. American Mineralogist, 2009, 94, 1739-1742.	0.9	13
35	Structure of hydrous aluminosilicate glasses along the diopside-anorthite join: A comprehensive one- and two-dimensional ^1H and ^{27}Al NMR study. Geochimica Et Cosmochimica Acta, 2008, 72, 2331-2348.	1.6	72
36	Dense hydrous magnesium silicates, phase D, and superhydrous B: New structural constraints from one- and two-dimensional ^{29}Si and ^1H NMR. American Mineralogist, 2008, 93, 1099-1111.	0.9	31

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37	Coordination environment of silicon in silica glass up to 74 GPa: An x-ray Raman scattering study at the silicon L edge. Physical Review B, 2008, 78, .	1.1	38
38	Elastic wave velocities and Raman shift of MORB glass at high pressures – Comment. Journal of Mineralogical and Petrological Sciences, 2008, 103, 427-428.	0.4	1
39	High-Pressure $\text{Al}(\text{OH})_3$ and AlOOH Phases and Isostructural Hydroxides/Oxyhydroxides: New Structural Insights from High-Resolution ^1H and ^{27}Al NMR. Journal of Physical Chemistry B, 2007, 111, 13156-13166.	1.2	74
40	Second critical endpoint in the peridotite-H ₂ O system. Journal of Geophysical Research, 2007, 112, .	3.3	96
41	Nonviscous Metallic Liquid Se. Physical Review Letters, 2007, 99, 245901.	2.9	23
42	Al coordination and water speciation in hydrous aluminosilicate glasses: Direct evidence from high-resolution heteronuclear ^1H - ^{27}Al correlation NMR. Solid State Nuclear Magnetic Resonance, 2007, 31, 10-27.	1.5	51
43	Cation order and hydrogen bonding of high-pressure phases in the Al_2O_3 - SiO_2 - H_2O system: An NMR and Raman study. American Mineralogist, 2006, 91, 850-861.	0.9	43
44	Depolymerization effect of water in aluminosilicate glasses: Direct evidence from ^1H - ^{27}Al heteronuclear correlation NMR. American Mineralogist, 2006, 91, 1922-1926.	0.9	52
45	Determination of the second critical end point in silicate-H ₂ O systems using high-pressure and high-temperature X-ray radiography. Geochimica Et Cosmochimica Acta, 2004, 68, 5189-5195.	1.6	41
46	Dissolution mechanisms of water in depolymerized silicate melts: Constraints from ^1H and ^{29}Si NMR spectroscopy and ab initio calculations. Geochimica Et Cosmochimica Acta, 2004, 68, 5027-5057.	1.6	133
47	Structure and properties of silicate melts and fluids. Geochimica Et Cosmochimica Acta, 2004, 68, 5011.	1.6	1
48	Sulfur speciation and network structural changes in sodium silicate glasses: Constraints from NMR and Raman spectroscopy. Geochimica Et Cosmochimica Acta, 2004, 68, 5081-5101.	1.6	59
49	Post-spinel transition in Mg_2SiO_4 determined by high P - T in situ X-ray diffractometry. Physics of the Earth and Planetary Interiors, 2003, 136, 11-24.	0.7	210
50	Materials Science and Seismological Approaches to Understanding Seismogenic Processes Investigation of Critical Behavior in Basalt-H ₂ O System Using High-pressure and High-temperature X-ray Radiography. Journal of Geography (Chigaku Zasshi), 2003, 112, 970-978.	0.1	2
51	In situ Observation of ilmenite-perovskite phase transition in MgSiO_3 using synchrotron radiation. Geophysical Research Letters, 2001, 28, 835-838.	1.5	83
52	Ab initio Calculation of the ^{17}O and ^1H NMR Parameters for Various OH Groups: Implications to the Speciation and Dynamics of Dissolved Water in Silicate Glasses. Journal of Physical Chemistry B, 2001, 105, 3422-3434.	1.2	48
53	^{29}Si magic-angle-spinning nuclear-magnetic-resonance study of spinel-type Si_3N_4 . Applied Physics Letters, 2001, 78, 3050-3051.	1.5	34
54	An ab initio calculation of ^{17}O and ^{29}Si NMR parameters for SiO_2 polymorphs. Solid State Nuclear Magnetic Resonance, 2000, 16, 245-259.	1.5	50

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55	NMR Characteristics of Possible Oxygen Sites in Aluminosilicate Glasses and Melts: An ab Initio Study. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10816-10830.	1.2	54
56	Crystal chemical characteristics of CaSi_2O_5 , a new high pressure calcium silicate with five-coordinated silicon synthesized at 1500°C and 10 GPa. <i>Physics and Chemistry of Minerals</i> , 1998, 25, 429-433.	0.3	19
57	Correlations between ^{29}Si , ^{17}O and ^1H NMR properties and local structures in silicates: an ab initio calculation. <i>Physics and Chemistry of Minerals</i> , 1998, 26, 14-30.	0.3	59
58	Phase relations in $\text{Na}_2\text{O}-\text{SiO}_2$ and $\text{K}_2\text{Si}_4\text{O}_9$ systems up to 14 GPa and ^{29}Si NMR study of the new high-pressure phases: implications to the structure of high-pressure silicate glasses. <i>Physics of the Earth and Planetary Interiors</i> , 1998, 107, 9-21.	0.7	22
59	Molecular Dynamic Simulation and Electrical Properties of $\text{Ba}_2\text{In}_2\text{O}_5$. <i>Materials Research Society Symposia Proceedings</i> , 1997, 496, 193.	0.1	1
60	Ab Initio ^{27}Al NMR Chemical Shift Calculation for the Clusters of $\text{Al}(\text{OH})_4$, $\text{Al}(\text{OH})_5$ and $\text{Al}(\text{OH})_6$. <i>Journal of the Ceramic Society of Japan</i> , 1997, 105, 91-92.	1.3	7
61	Activation energies of H_2O and H_2 diffusions in silica glass: Semi-empirical molecular orbital study.. <i>Journal of the Mineralogical Society of Japan</i> , 1997, 19, 13-19.	1.0	3
62	Molecular dynamics simulation of oxygen ion diffusion in $\text{Ba}_2\text{In}_2\text{O}_5$. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1996, 41, 46-49.	1.7	6
63	Ab initio calculation of ^{29}Si NMR chemical shifts for the clusters of $\text{Si}(\text{OH})_4$, $\text{Si}(\text{OH})_5$ - and $\text{Si}(\text{OH})_6$.. <i>Journal of the Mineralogical Society of Japan</i> , 1996, 18, 1-8.	1.0	6
64	A Molecular Dynamics Simulation of An Infinite-Layer Compound ACuO_2 (A=Sr, Tl). <i>Journal of Solid State Chemistry</i> , 1996, 133, 3-10.	1.3	3
65	A ^{29}Si MAS NMR study of sub-Tg amorphization of stishovite at ambient pressure. <i>Physics and Chemistry of Minerals</i> , 1993, 19, 480.	0.3	19
66	Calculated powder X-ray patterns of phase B, anhydrous B and superhydrous B: re-assessment of previous studies.. <i>Journal of the Mineralogical Society of Japan</i> , 1993, 16, 278-285.	1.0	16
67	Stability of hydrous magnesium silicates in the mantle transition zone. <i>Physics of the Earth and Planetary Interiors</i> , 1991, 66, 307-312.	0.7	152
68	Characterization of quenched high pressure phases in CaSiO_3 system by XRD and ^{29}Si NMR. <i>Geophysical Research Letters</i> , 1991, 18, 463-466.	1.5	83
69	Dehydration of brucite ($\text{Mg}(\text{OH})_2$) at high pressures detected by differential thermal analysis. <i>Geophysical Research Letters</i> , 1991, 18, 2189-2192.	1.5	19
70	Local Structure and Chemical Shifts for Six-Coordinated Silicon in High-Pressure Mantle Phases. <i>Science</i> , 1991, 251, 294-298.	6.0	67
71	Ortho/clinoenstatite transition. <i>Physics and Chemistry of Minerals</i> , 1991, 17, 726.	0.3	53
72	Melting of Silica up to 7 GPa. <i>Journal of the American Ceramic Society</i> , 1990, 73, 3706-3707.	1.9	49

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73	Elasticity of a majoriteâ€pyrope solid solution. <i>Geophysical Research Letters</i> , 1990, 17, 1989-1992.	1.5	38
74	Silicon Coordination and Speciation Changes in a Silicate Liquid at High Pressures. <i>Science</i> , 1989, 245, 962-964.	6.0	150
75	Ultrahigh-pressure phase relations in the system $Mg_4Si_4O_{12}$ – $Mg_3Al_2Si_3O_{12}$. <i>Physics of the Earth and Planetary Interiors</i> , 1987, 49, 168-175.	0.7	75