Determination of olivine cooling rates from metal-catio

Nature

381, 407-409

DOI: 10.1038/381407a0

Citation Report

#	Article	IF	Citations
1	Time-temperature-dependent M-site ordering in olivines from high-temperature neutron time-of-flight diffraction. Physica B: Condensed Matter, 1997, 241-243, 1189-1196.	2.7	5
2	The Magnetic Properties and Crystal Chemistry of Oxide Spinel Solid Solutions. Surveys in Geophysics, 1998, 19, 461-520.	4.6	52
3	Monte Carlo and Hybrid Monte Carlo/Molecular Dynamics Approaches to Orderâ"Disorder in Alloys, Oxides, and Silicates. Journal of Physical Chemistry B, 1998, 102, 5202-5207.	2.6	51
4	The temperature dependence of the cation distribution in synthetic hercynite (FeAl₂O₄) from in-situ neutron structure refinements. American Mineralogist, 1998, 83, 1092-1099.	1.9	100
5	Fe-Mn cation ordering in fayaliteâ€"tephroite (FexMn1â"x)2SiO4 olivines: a neutron diffraction study. Mineralogical Magazine, 1998, 62, 607-615.	1.4	20
6	Thermodynamics and kinetics of cation ordering in MgAl₂O₄spinel up to 1600 degrees C from in situ neutron diffraction. American Mineralogist, 1999, 84, 299-310.	1.9	195
7	The effect of pressure on cation ordering in minerals: Problems and perspectives. Phase Transitions, 1999, 69, 1-16.	1.3	7
8	In situ high-t neutron diffraction studies of non-convergent order/disorder in minerals: From simple oxides to complex silicates. Phase Transitions, 1999, 69, 17-34.	1.3	5
9	Determination of the mechanism of cation ordering in magnesioferrite (MgFe 2 O 4) from the time- and temperature-dependence of magnetic susceptibility. Physics and Chemistry of Minerals, 1999, 26, 322-332.	0.8	74
10	Temperature dependence of Fe,Mg partitioning in Acapulco olivine. American Mineralogist, 1999, 84, 1400-1405.	1.9	20
11	Octahedral cation ordering in olivine at high temperature. I: in situ neutron single-crystal diffraction studies on natural mantle olivines (Fa12 and Fa10). Physics and Chemistry of Minerals, 2000, 27, 623-629.	0.8	30
12	Mn-Mg disordering in cummingtonite: a high-temperature neutron powder diffraction study. Mineralogical Magazine, 2000, 64, 255-266.	1.4	24
13	In-situ study of theR3Ì… toR3Ì…cphase transition in the ilmenite-hematite solid solution using time-of-flight neutron powder diffraction. American Mineralogist, 2000, 85, 194-205.	1.9	62
14	Order-Disorder Phase Transitions. Reviews in Mineralogy and Geochemistry, 2000, 39, 105-133.	4.8	11
15	Ordering kinetics of Mg-Fe²⁺exchange in a Wo₄₃En₄₆Fs₁₁augite. American Mineralogist, 2001, 86, 271-278.	1.9	21
16	Composition and temperature dependence of cation ordering in Ni-Mg olivine solid solutions: a time-of-flight neutron powder diffraction and EXAFS study. American Mineralogist, 2001, 86, 1170-1187.	1.9	33
17	Kinetics of cation ordering in synthetic MgAl₂O₄spinel. American Mineralogist, 2002, 87, 838-844.	1.9	46
18	Neutron powder diffraction of minerals at high pressures and temperatures: some recent technical developments and scientific applications. European Journal of Mineralogy, 2002, 14, 251-261.	1.3	20

#	Article	IF	Citations
19	Cation Distribution of the Transparent Conductor and Spinel Oxide Solution Cd1+xIn2â^'xSnxO4. Journal of Solid State Chemistry, 2002, 163, 259-266.	2.9	34
20	Temperature-dependent Fe 2+ -Mn 2+ order-disorder behaviour in amphiboles. Physics and Chemistry of Minerals, 2002, 29, 562-570.	0.8	28
21	MÃ¶ssbauer Spectroscopy in the Geosciences: Highlights and Perspectives. Hyperfine Interactions, 2002, 144/145, 289-296.	0.5	2
22	RECENT DEVELOPMENTS USING THE PARIS-EDINBURGH CELL FOR NEUTRON DIFFRACTION AT HIGH PRESSURE AND HIGH TEMPERATURE AND SOME APPLICATIONS. High Pressure Research, 2003, 23, 281-287.	1.2	17
23	Study of cation order-disorder in MgAl₂O₄spinel by in situ neutron diffraction up to 1600 K and 3.2 GPa. American Mineralogist, 2004, 89, 981-986.	1.9	56
24	X-ray absorption near-edge structure at the Mg and FeKedges in olivine minerals. Physical Review B, 2004, 69, .	3.2	11
25	Transformation of lithospheric mantle through peridotite-melt reaction: A case of Sino-Korean craton. Earth and Planetary Science Letters, 2005, 237, 768-780.	4.4	207
26	Cation ordering in magnesioferrite, MgFe2O4, to 982 Â°C using in situ synchrotron X-ray powder diffraction. American Mineralogist, 2005, 90, 219-228.	1.9	74
27	Pyroxenes, pyroxenoids and silicates with related compositions (Text 1). , 0, , 1-20.		0
28	7. Neutron Powder Diffraction Studies of Order-Disorder Phase Transitions and Kinetics. , 2006, , 145-170.		0
29	Order and anti-order in olivine I: Structural response to temperature. European Journal of Mineralogy, 2006, 18, 673-689.	1.3	19
30	Neutron Powder Diffraction Studies of Order-Disorder Phase Transitions and Kinetics. Reviews in Mineralogy and Geochemistry, 2006, 63, 145-170.	4.8	10
31	Cation ordering in MgTi2O5 (karrooite): Probing temperature dependent effects with neutrons. American Mineralogist, 2007, 92, 1165-1180.	1.9	22
32	Importance of melt circulation and crust-mantle interaction in the lithospheric evolution beneath the North China Craton: Evidence from Mesozoic basalt-borne clinopyroxene xenocrysts and pyroxenite xenoliths. Lithos, 2007, 96, 67-89.	1.4	74
33	A computational study of magnesium point defects and diffusion in forsterite. Physics of the Earth and Planetary Interiors, 2009, 172, 20-27.	1.9	39
34	Zoned olivine xenocrysts in a late Mesozoic gabbro from the southern Taihang Mountains: implications for old lithospheric mantle beneath the central North China Craton. Geological Magazine, 2010, 147, 161-170.	1.5	12
35	Thermally-induced cation disorder in LiFePO4. Solid State Ionics, 2011, 203, 33-36.	2.7	16
36	Fluid and melt inclusions in the Mesozoic Fangcheng basalt from North China Craton: implications for magma evolution and fluid/melt-peridotite reaction. Contributions To Mineralogy and Petrology, 2013, 165, 885-901.	3.1	26

#	Article	IF	Citations
37	Inferred time- and temperature-dependent cation ordering in natural titanomagnetites. Nature Communications, 2013, 4, 1916.	12.8	50
38	Curie temperatures of titanomagnetite in ignimbrites: Effects of emplacement temperatures, cooling rates, exsolution, and cation ordering. Geochemistry, Geophysics, Geosystems, 2014, 15, 4343-4368.	2.5	20
39	A new Mg-in-plagioclase geospeedometer for the determination of cooling rates of mafic rocks. Geochimica Et Cosmochimica Acta, 2014, 140, 691-707.	3.9	16
40	Investigation of Antisite Defect Formation and Chemical Expansion in LiNiPO₄ by in Situ Neutron Diffraction. Inorganic Chemistry, 2017, 56, 3657-3662.	4.0	15
41	Critical Evaluations and Thermodynamic Optimizations of the MnO-Mn $$_{2}$$ 2 O $$_{3}$$ 3 -SiO $$_{2}$$ 2 and FeO-Fe $$_{2}$$ 2 O $$_{3}$$ 3 -MnO-Mn $$_{2}$$ 2 O $$_{3}$$ 3 -SiO $$_{2}$$ 2 Systems. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1721-1735.	2.1	6
42	Atomic disorders in layer structured topological insulator SnBi2Te4 nanoplates. Nano Research, 2018, 11, 696-706.	10.4	16
43	Olivine compositional changes in primitive magmatic skarn environments: A reassessment of divalent cation partitioning models to quantify the effect of carbonate assimilation. Lithos, 2018, 316-317, 104-121.	1.4	16
44	HLA Screening for Dapsone Hypersensitivity in Indiaâ€"A Long Way Aheadâ€"In Reply. JAMA Dermatology, 2019, 155, 1429.	4.1	3
45	Cation ordering, valence states, and symmetry breaking in the crystal-chemically complex mineral chevkinite-(Ce): Recrystallization, transformation, and metamict states in chevkinite. American Mineralogist, 2019, 104, 1481-1486.	1.9	3
46	Trace element partitioning between MgAl2O4-spinel and carbonatitic silicate melt from 3 to 6ÂGPa, with emphasis on the role of cation order-disorder. Solid Earth Sciences, 2019, 4, 43-65.	1.7	8
47	Feâ€“rich olivine from an andesite dike in Miocene Shitara volcanic rocks, central Japan: a revised relationship between Mg/Fe ratio and Raman spectrum in olivine. Journal of Mineralogical and Petrological Sciences, 2021, 116, 113-120.	0.9	1
48	Through the Maze of Multivalentâ€ion Batteries: A Critical Review on the Status of the Research on Cathode Materials for Mg²⁺ and Ca²⁺ Ions Insertion. Batteries and Supercaps, 2021, 4, 1221-1251.	4.7	24
49	In-situ neutron diffraction study of non-convergent cation ordering in the (Fe₃O₄) (sub 1-x) (MgAl₂O₄)_xspinel solid solution. American Mineralogist, 1999, 84, 555-563.	1.9	20
50	New controlled rapid quenched technique in a 1 atm infrared image furnace. American Mineralogist, 1999, 84, 48-54.	1.9	2
51	MÃ¶ssbauer Spectroscopy in the Geosciences: Highlights and Perspectives. , 2003, , 289-296.		0
52	Structural and Magnetic Phase Transitions in Minerals: In Situ Studies by Neutron Scattering. Neutron Scattering Applications and Techniques, 2009, , 107-143.	0.2	1
53	Tectonics, cooling rates and temperatures during emplacement of the Rajmahal traps, India. Journal of Volcanology and Geothermal Research, 2022, 424, 107496.	2.1	4
54	Coâ€Substituted BiFeO₃: Electronic, Ferroelectric, and Thermodynamic Properties from First Principles. Advanced Theory and Simulations, 2023, 6, .	2.8	2