

MÃ–SSBAUER SPECTROSCOPY OF EARTH AND PLANETARY

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Long-Range Order in Amphiboles. <i>Reviews in Mineralogy and Geochemistry</i> , 2007, 67, 125-171.	2.2	70
3	On the calculation of Mössbauer isomer shift. <i>Journal of Chemical Physics</i> , 2007, 127, 084101.	1.2	63
4	Amphiboles from the Kola Superdeep Borehole: Fe ³⁺ contents from crystal-chemical analysis and Mössbauer spectroscopy. <i>Mineralogical Magazine</i> , 2007, 71, 651-669.	0.6	5
5	Neutron diffraction, Mössbauer and magnetotransport study of Fe-substituted derivatives of CaCu ₃ Mn ₄ O ₁₂ perovskite with colossal magnetoresistance. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 356209.	0.7	13
6	Effects of differential recoil-free fraction on ordering and site occupancies in Mossbauer spectroscopy of orthopyroxenes. <i>American Mineralogist</i> , 2007, 92, 424-428.	0.9	16
7	Spectroscopy of synthetic Mg-Fe pyroxenes I: Spin-allowed and spin-forbidden crystal field bands in the visible and near-infrared. <i>Meteoritics and Planetary Science</i> , 2007, 42, 235-253.	0.7	236
8	Chemical composition, statistical analysis of the unit cell, and electrostatic modeling of the structure of Al-saturated chlorite from metamorphosed rocks. <i>American Mineralogist</i> , 2007, 92, 954-965.	0.9	6
9	Amphiboles: Crystal Chemistry. <i>Reviews in Mineralogy and Geochemistry</i> , 2007, 67, 1-54.	2.2	118
10	Velocity scales for Mars Mössbauer data. <i>Hyperfine Interactions</i> , 2007, 170, 67-74.	0.2	16
11	Synthetic coprecipitates of exopolysaccharides and ferrihydrite. Part I: Characterization. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1111-1127.	1.6	165
12	Characterization of the 1.2 μ m M1 pyroxene band: Extracting cooling history from near-IR spectra of pyroxenes and pyroxene-dominated rocks. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1591-1604.	0.7	88
13	Linking Mossbauer and structural parameters in elbaite-schorl-dravite tourmalines. <i>American Mineralogist</i> , 2008, 93, 658-666.	0.9	54
14	Mössbauer spectroscopy of phyllosilicates: effects of fitting models on recoil-free fractions and redox ratios. <i>Clay Minerals</i> , 2008, 43, 3-33.	0.2	53
15	Acid production by FeSO ₄ ·nH ₂ O dissolution and implications for terrestrial and martian aquatic systems. <i>American Mineralogist</i> , 2009, 94, 409-414.	0.9	16
16	Nuclear resonant X-ray spectroscopy of (Mg,Fe)SiO ₃ orthoenstatites. <i>European Journal of Mineralogy</i> , 2009, 21, 551-560.	0.4	35
17	First principles calculation of Mössbauer isomer shift. <i>Coordination Chemistry Reviews</i> , 2009, 253, 594-605.	9.5	59
18	Characterization of a mechanochemically activated titanium-hematite mixture: Mössbauer spectroscopy study. <i>Physica B: Condensed Matter</i> , 2009, 404, 2751-2753.	1.3	2
19	Spectral properties of simulated impact glasses produced from martian soil analogue JSC Mars-1. <i>Icarus</i> , 2009, 202, 336-353.	1.1	40

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20	Influence of Magnetite Stoichiometry on Fe ^{II} Uptake and Nitrobenzene Reduction. Environmental Science & Technology, 2009, 43, 3675-3680.	4.6	149
21	Behavior of iron in (Mg,Fe)SiO ₃ post-perovskite assemblages at Mbar pressures. Geophysical Research Letters, 2009, 36, .	1.5	23
22	Mössbauer modeling to interpret the spin state of iron in (Mg,Fe)SiO ₃ perovskite. Geophysical Research Letters, 2009, 36, .	1.5	64
23	Mossbauer spectroscopy with high velocity resolution in the study of iron-bearing minerals in meteorites. European Journal of Mineralogy, 2009, 21, 51-63.	0.4	22
24	Concerning the use of standards for identifying coordination environments in glasses. Journal of Physics: Conference Series, 2010, 217, 012072.	0.3	6
25	Structural and magnetic properties of a mechanochemically activated Ti-Fe ₂ O ₃ solid mixture. Materials Research Bulletin, 2010, 45, 1984-1989.	2.7	7
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28	Mössbauer spectroscopy characterization of automotive brake disc and polymer matrix composite (PMC) pad surfaces. Wear, 2010, 268, 715-720.	1.5	22
29	X-ray diffraction and Mossbauer spectroscopy of Fe ³⁺ -bearing Mg-silicate post-perovskite at 128-138 GPa. American Mineralogist, 2010, 95, 418-421.	0.9	29
30	Electronic spin and valence states of Fe in Ca ₃ Si ₂ O ₇ type silicate post-perovskite in the Earth's lowermost mantle. Geophysical Research Letters, 2010, 37, .	1.5	21
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36	Fe ²⁺ Sorption at the Fe Oxide-Water Interface: A Revised Conceptual Framework. ACS Symposium Series, 2011, , 315-343.	0.5	66
37	Water in upper mantle pyroxene megacrysts and xenocrysts: A survey study. American Mineralogist, 2011, 96, 1215-1227.	0.9	58

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38	Effects of the Fe ³⁺ spin transition on the properties of aluminous perovskite—New insights for lower-mantle seismic heterogeneities. <i>Earth and Planetary Science Letters</i> , 2011, 310, 293-302.	1.8	84
39	New insights into the mineralogy and weathering of the Meridiani Planum meteorite, Mars. <i>Meteoritics and Planetary Science</i> , 2011, 46, 21-34.	0.7	7
40	Calibration of the isomer shift of the 14.4 keV transition of ⁵⁷ Fe. <i>Hyperfine Interactions</i> , 2011, 202, 117-121.	0.2	7
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42	Phase characterization of debris generated in brake pad coefficient of friction tests. <i>Wear</i> , 2011, 270, 515-519.	1.5	28
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47	Accurate determination of ferric iron in garnets by bulk Mössbauer spectroscopy and synchrotron micro-XANES. <i>American Mineralogist</i> , 2012, 97, 1726-1740.	0.9	31
48	Electronic spin states of ferric and ferrous iron in the lower-mantle silicate perovskite. <i>American Mineralogist</i> , 2012, 97, 592-597.	0.9	58
49	A ⁵⁷ Fe Mössbauer spectroscopic study of sordjanite: an example of a symmetric electric field gradient around Fe ³⁺ . <i>Physics and Chemistry of Minerals</i> , 2012, 39, 73-78.	0.3	2
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51	Synchrotron Mössbauer study of Fe-bearing pyrope at high pressures and temperatures. <i>American Mineralogist</i> , 2013, 98, 1146-1152.	0.9	6
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57	First archeointensity determinations on Maya incense burners from Palenque temples, Mexico: New data to constrain the Mesoamerica secular variation curve. <i>Earth and Planetary Science Letters</i> , 2013, 363, 168-180.	1.8	19
58	Mössbauer spectroscopy with a high velocity resolution applied for the study of meteoritic iron-bearing minerals. <i>Journal of Molecular Structure</i> , 2013, 1044, 268-278.	1.8	19
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60	Mössbauer studies of materials used to immobilise industrial wastes. <i>Hyperfine Interactions</i> , 2013, 217, 83-90.	0.2	5
61	Fundamental Mossbauer parameters of synthetic Ca-Mg-Fe pyroxenes. <i>American Mineralogist</i> , 2013, 98, 1172-1186.	0.9	20
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63	Graphite immobilisation in iron phosphate glass composite materials produced by microwave and conventional sintering routes. <i>Journal of Nuclear Materials</i> , 2014, 454, 343-351.	1.3	5
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69	^{57}Fe Mössbauer spectroscopy of Fe-bearing silicates from the Murchie meteorite. <i>Earth and Planetary Science Letters</i> , 2014, 403, 157-165.		10
70	Mossbauer parameters of iron in phosphate minerals: Implications for interpretation of martian data. <i>American Mineralogist</i> , 2014, 99, 914-942.	0.9	42
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78	Behavior of arsenic in hydrometallurgical zinc production and environmental impact. Polish Journal of Chemical Technology, 2014, 16, 80-86.	0.3	1
79	Structural and spectroscopic changes to natural nontronite induced by experimental impacts between 10 and 40â€‰GPa. Journal of Geophysical Research E: Planets, 2015, 120, 888-912.	1.5	20
80	Detailed Atomistic Investigation of Fe-Doped Rutile Phases. Journal of Physical Chemistry A, 2015, 119, 5742-5748.	1.1	10
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83	<i>In Situ</i> Characterization of Highly Dispersed, Ceria-Supported Fe Sites for NO Reduction by CO. Journal of Physical Chemistry C, 2015, 119, 4224-4234.	1.5	27
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92	Submicrometer-scale spatial heterogeneity in silicate glasses using aberration-corrected scanning transmission electron microscopy. <i>American Mineralogist</i> , 2016, 101, 2677-2688.	0.9	14
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97	Highâ€spin Fe 2+ and Fe 3+ in singleâ€crystal aluminous bridgmanite in the lower mantle. <i>Geophysical Research Letters</i> , 2016, 43, 6952-6959.	1.5	23
98	Accurate determination of ferric iron in garnets. <i>American Mineralogist</i> , 2016, 101, 1704-1707.	0.9	13
99	Electronic transitions of iron in almandine-composition glass to 91 GPa. <i>American Mineralogist</i> , 2016, 101, 1659-1667.	0.9	9
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107	Oxygen fugacity of Yanshanian granites in South China and implications for metallogeny. <i>Ore Geology Reviews</i> , 2017, 88, 690-701.	1.1	55
108	FeCr ₂ O ₄ spinel to near megabar pressures: Orbital moment collapse and site-inversion facilitated spin crossover. <i>Physical Review B</i> , 2017, 95, .	1.1	10
109	Structure refinement and crystal chemistry of tokkoite and tinaksite from the Murun massif (Russia). <i>Mineralogical Magazine</i> , 2017, 81, 251-272.	0.6	12

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111	Iron(II)-Catalyzed Iron Atom Exchange and Mineralogical Changes in Iron-rich Organic Freshwater Flocs: An Iron Isotope Tracer Study. <i>Environmental Science & Technology</i> , 2017, 51, 6897-6907.	4.6	69
112	Optical signatures of low spin Fe ³⁺ in NAL at high pressure. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3565-3573.	1.4	14
113	Single-crystal equations of state of magnesiowüstite at high pressures. <i>American Mineralogist</i> , 2017, 102, 1709-1717.	0.9	9
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115	Electronic environments of ferrous iron in rhyolitic and basaltic glasses at high pressure. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6306-6322.	1.4	15
116	The Mössbauer spectra of prasiolite and amethyst crystals from Poland. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 365-375.	0.3	12
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118	Stability of ferrous-iron-rich bridgmanite under reducing midmantle conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6468-6473.	3.3	51
119	Sorption mechanism of Th(IV) at iron oxyhydroxide (IOHO)/water interface: Batch, model and spectroscopic studies. <i>Journal of Molecular Liquids</i> , 2017, 241, 478-485.	2.3	9
120	Ferrorhodonite, CaMn ₃ Fe[Si ₅ O ₁₅], a new mineral species from Broken Hill, New South Wales, Australia. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 323-334.	0.3	8
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122	Chlorine incorporation in amphiboles synthesized along the magnesio-hastingsite-hastingsite compositional join. <i>European Journal of Mineralogy</i> , 2017, 29, 167-180.	0.4	9
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124	Rapid arsenic(V)-reduction by fire in schwertmannite-rich soil enhances arsenic mobilisation. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 227, 1-18.	1.6	19
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126	Mössbauer Studies of Moulded Kama-Cis Urals Ceramics. <i>Archaeometry</i> , 2018, 60, 1237-1250.	0.6	1
127	The effect of gamma irradiation on the structural properties of olivine. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 317, 261-268.	0.7	8

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129	A re-assessment of the oxidation state of iron in MORB glasses. <i>Earth and Planetary Science Letters</i> , 2018, 483, 114-123.	1.8	120
130	Determination of $\text{Fe}^{3+}/\Sigma\text{Fe}$ of XANES basaltic glass standards by Mössbauer spectroscopy and its application to the oxidation state of iron in MORB. <i>Chemical Geology</i> , 2018, 479, 166-175.	1.4	101
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135	Structure and properties of $\text{Na}_5\text{FeSi}_4\text{O}_{12}$ crystallized from $5\text{Na}_2\text{O}\cdot\text{Fe}_2\text{O}_3\cdot 8\text{SiO}_2$ glass. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018, 74, 1595-1602.	0.2	6
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137	A Spectral Comparison of Jarosites Using Techniques Relevant to the Robotic Exploration of Biosignatures on Mars. <i>Life</i> , 2018, 8, 61.	1.1	14
138	Impact of Organic Matter on Iron(II)-Catalyzed Mineral Transformations in Ferrihydrite-Organic Matter Coprecipitates. <i>Environmental Science & Technology</i> , 2018, 52, 12316-12326.	4.6	139
139	Investigation of iron reduction by green tea polyphenols. <i>Applied Geochemistry</i> , 2018, 97, 263-269.	1.4	21
140	Pressure-induced disruption of the local environment of Fe-Fe dimers in FeGa_3 by metallization. <i>Physical Review B</i> , 2018, 98, .		
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142	Iron release in aqueous environment by fresh volcanic ash from Mount Etna (Italy) and Popocatepetl (Mexico) volcanoes. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	2
143	Ultraparamagnetic Cells Formed through Intracellular Oxidation and Chelation of Paramagnetic Iron. <i>Angewandte Chemie</i> , 2018, 130, 12565-12569.	1.6	4
144	Complex Magnetic Ordering in the Oxide Selenide $\text{Sr}_2\text{Fe}_3\text{Se}_2\text{O}_3$. <i>Inorganic Chemistry</i> , 2018, 57, 10312-10322.	1.9	5
145	Ultraparamagnetic Cells Formed through Intracellular Oxidation and Chelation of Paramagnetic Iron. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12385-12389.	7.2	14

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