

Benjamin J A Moulton

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

499
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840776

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24
times ranked

817
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray Absorption Near-Edge Structure (XANES) Spectroscopy. <i>Reviews in Mineralogy and Geochemistry</i> , 2014, 78, 75-138.	4.8	218
2	Magma evolution in the Pliocene–Pleistocene succession of Kos, South Aegean arc (Greece). <i>Lithos</i> , 2008, 106, 110-124.	1.4	38
3	The origin of the unusual DSC peaks of supercooled barium disilicate liquid. <i>CrystEngComm</i> , 2019, 21, 2768-2778.	2.6	27
4	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. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 178, 41-61.	3.9	26
5	A Raman investigation of the structural evolution of supercooled liquid barium disilicate during crystallization. <i>International Journal of Applied Glass Science</i> , 2018, 9, 510-517.	2.0	22
6	The structure of haplobasaltic glasses investigated using X-ray absorption near edge structure (XANES) spectroscopy at the Si, Al, Mg, and O K-edges and Ca, Si, and Al L 2,3 -edges. <i>Chemical Geology</i> , 2016, 420, 213-230.	3.3	18
7	Raman scattering and molecular dynamics investigation of lead metasilicate glass and supercooled liquid structures. <i>Journal of Non-Crystalline Solids</i> , 2018, 499, 300-308.	3.1	18
8	X-ray excited optical luminescence changes induced by excess/deficiency lithium ions in rare earth doped LiAl ₅ O ₈ . <i>Journal of Luminescence</i> , 2018, 199, 298-301.	3.1	13
9	Synthesis of PbO–SiO ₂ glass by CO ₂ laser melting method. <i>Journal of Non-Crystalline Solids</i> , 2019, 522, 119572.	3.1	13
10	A critical evaluation of barium silicate glass network polymerization. <i>Journal of Non-Crystalline Solids</i> , 2022, 583, 121477.	3.1	12
11	Effect of the amounts of Li ⁺ additive on the luminescence properties of LiBaPO ₄ :Eu phosphor. <i>Optical Materials</i> , 2019, 89, 329-333.	3.6	11
12	Archean subaqueous high-silica rhyolite coulases: Examples from the Kidd-Munro Assemblage in the Abitibi Subprovince. <i>Precambrian Research</i> , 2011, 189, 389-403.	2.7	10
13	Identifying and explaining vibrational modes of sanbornite (low-BaSi ₂ O ₅) and Ba ₅ Si ₈ O ₂₁ : A joint experimental and theoretical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 248, 119130.	3.9	10
14	A Li K-edge XANES study of salts and minerals. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 543-551.	2.4	9
15	Structure–longitudinal sound velocity relationships in glassy anorthite (CaAl ₂ Si ₂ O ₈) up to 20 GPa: An in situ Raman and Brillouin spectroscopy study. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 261, 132-144.	3.9	9
16	Effect of high pressure on the structure of barium disilicate glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2020, 550, 120380.	3.1	8
17	Speciation and polymerization in a barium silicate glass: Evidence from ²⁹ Si NMR and Raman spectroscopies. <i>Chemical Geology</i> , 2021, 586, 120611.	3.3	8
18	Discoveries about the structure of alkaline earth-bearing borosilicate glasses doped with TiO ₂ revealed by Raman spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2022, 578, 121349.	3.1	8

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19	A theoretical and experimental investigation of hetero- vs. homo-connectivity in barium silicates. <i>American Mineralogist</i> , 2022, 107, 716-728.	1.9	6
20	Thermal expansion, compressibility and bulk modulus of ilmenite-type CoTiO ₃ : X-ray diffraction at high pressures and temperatures. <i>Solid State Sciences</i> , 2019, 88, 1-5.	3.2	5
21	Effects of Li addition on the luminescent properties of LiSrPO ₄ :Eu ³⁺ excited with X-ray and ultraviolet radiation. <i>Journal of Alloys and Compounds</i> , 2020, 836, 155388.	5.5	5
22	Glasses: Alkali and Alkaline-Earth Silicates. , 2021, , 462-482.		3
23	The effect of alkaline-earth substitution on the Li K-edge of lithium silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2018, 500, 417-421.	3.1	1
24	Chromium in lead metasilicate glass: Solubility, valence, and local environment via multiple spectroscopy. <i>Ceramics International</i> , 2022, 48, 173-178.	4.8	1