

Giacomo D Gatta

List of Publications by Year in descending order

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205
papers

3,969
citations

136950

32
h-index

189892

50
g-index

208
all docs

208
docs citations

208
times ranked

3001
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective hydrostatic limits of pressure media for high-pressure crystallographic studies. <i>Journal of Applied Crystallography</i> , 2007, 40, 26-32.	4.5	440
2	Characterization of lead sorption by the natural and Fe(III)-modified zeolite. <i>Applied Surface Science</i> , 2013, 283, 764-774.	6.1	121
3	Removal of lead from aqueous solutions by using the natural and Fe(III)-modified zeolite. <i>Applied Surface Science</i> , 2012, 258, 3667-3673.	6.1	114
4	Zeolites at high pressure: A review. <i>Mineralogical Magazine</i> , 2014, 78, 267-291.	1.4	88
5	Does porous mean soft? On the elastic behaviour and structural evolution of zeolites under pressure. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2008, 223, 160-170.	0.8	71
6	Single-crystal diffraction at the Extreme Conditions beamline P02.2: procedure for collecting and analyzing high-pressure single-crystal data. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 711-720.	2.4	67
7	Elastic behavior, phase transition, and pressure induced structural evolution of analcime. <i>American Mineralogist</i> , 2006, 91, 568-578.	1.9	63
8	A comparative study of fibrous zeolites under pressure. <i>European Journal of Mineralogy</i> , 2005, 17, 411-422.	1.3	60
9	Analysis and simulation of magma mixing processes in 3D. <i>Lithos</i> , 2002, 65, 313-330.	1.4	55
10	Stability and transformation mechanism of weddellite nanocrystals studied by X-ray diffraction and infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14560.	2.8	54
11	High-pressure structural behaviour of heulandite. <i>European Journal of Mineralogy</i> , 2001, 13, 497-505.	1.3	51
12	Elastic behavior and phase stability of pollucite, a potential host for nuclear waste. <i>American Mineralogist</i> , 2009, 94, 1137-1143.	1.9	50
13	Effect of non-hydrostatic conditions on the elastic behaviour of magnetite: an in situ single-crystal X-ray diffraction study. <i>Physics and Chemistry of Minerals</i> , 2007, 34, 627-635.	0.8	44
14	Synthesis of calcium oxalate trihydrate: New data by vibrational spectroscopy and synchrotron X-ray diffraction. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 150, 721-730.	3.9	44
15	The effect of pressure on open-framework silicates: elastic behaviour and crystal-fluid interaction. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 115-138.	0.8	44
16	The real topological configuration of the extra-framework content in alkali-poor beryl: A multi-methodological study. <i>American Mineralogist</i> , 2006, 91, 29-34.	1.9	42
17	A comparison between <i>ab initio</i> calculated and measured Raman spectrum of triclinic albite (NaAlSi ₃ O ₈). <i>Journal of Raman Spectroscopy</i> , 2015, 46, 501-508.	2.5	42
18	Dolomite-IV: Candidate structure for a carbonate in the Earth's lower mantle. <i>American Mineralogist</i> , 2017, 102, 1763-1766.	1.9	42

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19	Plagioclase composition by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 684-698.	2.5	41
20	High-pressure structural behaviour of scolecite. <i>European Journal of Mineralogy</i> , 2002, 14, 567-574.	1.3	40
21	A comprehensive evaluation of sedimentary zeolites from Turkey as pozzolanic addition of cement- and lime-based binders. <i>Construction and Building Materials</i> , 2016, 105, 46-61.	7.2	40
22	New insights on high-pressure behaviour of microporous materials from X-ray single-crystal data. <i>Microporous and Mesoporous Materials</i> , 2003, 61, 105-115.	4.4	39
23	Minerals in cement chemistry: A single-crystal neutron diffraction and Raman spectroscopic study of thaumasite, $\text{Ca}_3\text{Si}(\text{OH})_6(\text{CO}_3)(\text{SO}_4)\cdot 12\text{H}_2\text{O}$. <i>American Mineralogist</i> , 2012, 97, 1060-1069.	1.9	37
24	Single-crystal polarized FTIR spectroscopy and neutron diffraction refinement of cancrinite. <i>Physics and Chemistry of Minerals</i> , 2009, 36, 193-206.	0.8	36
25	Leucite at high pressure: Elastic behavior, phase stability, and petrological implications. <i>American Mineralogist</i> , 2008, 93, 1588-1596.	1.9	35
26	New insights into the crystal structure and crystal chemistry of the zeolite phillipsite. <i>American Mineralogist</i> , 2009, 94, 190-199.	1.9	34
27	On the crystal structure and crystal chemistry of pollucite, $(\text{Cs},\text{Na})_{16}\text{Al}_{16}\text{Si}_{32}\text{O}_{96}\cdot n\text{H}_2\text{O}$: A natural microporous material of interest in nuclear technology. <i>American Mineralogist</i> , 2009, 94, 1560-1568.	1.9	34
28	Stability at high pressure, elastic behavior and pressure-induced structural evolution of $\alpha\text{-Al}_5\text{BO}_9$, a mullite-type ceramic material. <i>Physics and Chemistry of Minerals</i> , 2010, 37, 227-236.	0.8	34
29	Extreme deformation mechanisms in open-framework silicates at high-pressure: Evidence of anomalous inter-tetrahedral angles. <i>Microporous and Mesoporous Materials</i> , 2010, 128, 78-84.	4.4	34
30	Diammonium hydrogenphosphate for the consolidation of building materials. Investigation of newly-formed calcium phosphates. <i>Construction and Building Materials</i> , 2019, 195, 557-563.	7.2	34
31	Effects of pressure on the structure of bikitaite. <i>European Journal of Mineralogy</i> , 2003, 15, 247-255.	1.3	33
32	Anomalous elastic behavior and high-pressure structural evolution of zeolite levyne. <i>American Mineralogist</i> , 2005, 90, 645-652.	1.9	33
33	Single-crystal elastic properties of $(\text{Cs},\text{Na})\text{AlSi}_2\text{O}_6\cdot n\text{H}_2\text{O}$ pollucite: A zeolite with potential use for long-term storage of Cs radioisotopes. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	33
34	On the crystal structure and compressional behavior of talc: a mineral of interest in petrology and material science. <i>Physics and Chemistry of Minerals</i> , 2013, 40, 145-156.	0.8	32
35	First accurate location of two proton sites in tourmaline: A single-crystal neutron diffraction study of oxy-dravite. <i>Mineralogical Magazine</i> , 2014, 78, 681-692.	1.4	32
36	The effect of Ca substitution on the elastic and structural behavior of orthoenstatite. <i>American Mineralogist</i> , 2006, 91, 809-815.	1.9	31

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37	Isothermal equation of state and compressional behavior of tetragonal edingtonite. <i>American Mineralogist</i> , 2004, 89, 633-639.	1.9	30
38	Comparative compressibility and equation of state of orthorhombic and tetragonal edingtonite. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 288-298.	0.8	29
39	Stability at high-pressure, elastic behaviour and pressure-induced structural evolution of CsAlSi ₅ O ₁₂ , a potential host for nuclear waste. <i>Physics and Chemistry of Minerals</i> , 2008, 35, 521-533.	0.8	28
40	Thermal stability and high-temperature behavior of the natural borate colemanite: An aggregate in radiation-shielding concretes. <i>Construction and Building Materials</i> , 2019, 203, 679-686.	7.2	28
41	On the elastic behaviour of zeolite mordenite: a synchrotron powder diffraction study. <i>Physics and Chemistry of Minerals</i> , 2006, 32, 726-732.	0.8	27
42	New insight into crystal chemistry of topaz: A multi-methodological study. <i>American Mineralogist</i> , 2006, 91, 1839-1846.	1.9	27
43	Elastic behavior and pressure-induced structural evolution of nepheline: Implications for the nature of the modulated superstructure. <i>American Mineralogist</i> , 2007, 92, 1446-1455.	1.9	27
44	Anisotropic elastic behaviour and structural evolution of zeolite phillipsite at high pressure: A synchrotron powder diffraction study. <i>Microporous and Mesoporous Materials</i> , 2007, 105, 239-250.	4.4	27
45	Rigid unit modes at high pressure: an explorative study of a fibrous zeolite-like framework with EDI topology. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 465-474.	0.8	25
46	Synthesis and crystal structure of the feldspathoid CsAlSiO ₄ : An open-framework silicate and potential nuclear waste disposal phase. <i>American Mineralogist</i> , 2008, 93, 988-995.	1.9	25
47	Effect of red mud added to zeolite LTA synthesis: Where is Fe in the newly-formed material?. <i>Microporous and Mesoporous Materials</i> , 2020, 298, 110058.	4.4	24
48	New insights into the crystal chemistry of epididymite and eudidymite from Malosa, Malawi: A single-crystal neutron diffraction study. <i>American Mineralogist</i> , 2008, 93, 1158-1165.	1.9	23
49	Structural evolution of a 2M 1 phengite mica up to 11ÂGPa: an in situ single-crystal X-ray diffraction study. <i>Physics and Chemistry of Minerals</i> , 2010, 37, 581-591.	0.8	23
50	Crystal chemistry and low-temperature behavior of datolite: A single-crystal X-ray diffraction study. <i>American Mineralogist</i> , 2010, 95, 1413-1421.	1.9	23
51	Cordierite under hydrostatic compression: Anomalous elastic behavior as a precursor for a pressure-induced phase transition. <i>American Mineralogist</i> , 2014, 99, 479-493.	1.9	23
52	Elastic behaviour and structural evolution of topaz at high pressure. <i>Physics and Chemistry of Minerals</i> , 2006, 33, 235-242.	0.8	22
53	Structural evolution of zeolite levyne under hydrostatic and non-hydrostatic pressure: geometric modelling. <i>Physics and Chemistry of Minerals</i> , 2006, 33, 243-255.	0.8	22
54	Flexibility window controls pressure-induced phase transition in analcime. <i>Europhysics Letters</i> , 2008, 83, 26002.	2.0	22

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55	Compression behaviour and flexibility window of the analcime-like feldspathoids: experimental and theoretical findings. <i>European Journal of Mineralogy</i> , 2009, 21, 571-580.	1.3	22
56	Hydrogen-bond and cation partitioning in muscovite: A single-crystal neutron-diffraction study at 295 and 20 K. <i>American Mineralogist</i> , 2011, 96, 34-41.	1.9	22
57	AlPO ₄ -5 zeolite at high pressure: Crystal–fluid interaction and elastic behavior. <i>Microporous and Mesoporous Materials</i> , 2016, 228, 158-167.	4.4	22
58	High-temperature and high-pressure behavior of carbonates in the ternary diagram CaCO ₃ -MgCO ₃ -FeCO ₃ . <i>American Mineralogist</i> , 2016, 101, 1423-1430.	1.9	22
59	THE MECHANISM OF COUPLING IN THE MODULATED STRUCTURE OF NEPHELINE. <i>Canadian Mineralogist</i> , 2008, 46, 1465-1476.	1.0	22
60	The production and technology of glazed ceramics from the middle ages, found in the saepinum territory (Italy): a multimethodic approach*. <i>Archaeometry</i> , 2004, 46, 405-419.	1.3	21
61	Structural evolution of a 3 <i>T</i> phengite mica up to 10 GPa: an <i>in-situ</i> single-crystal X-ray diffraction study. <i>Zeitschrift für Kristallographie</i> , 2009, 224, 302-310.	1.1	21
62	Behavior of epidote at high pressure and high temperature: a powder diffraction study up to 10 GPa and 1,200 K. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 419-428.	0.8	21
63	Flexibility windows and phase transitions of ordered and disordered ANA framework zeolites. <i>Europhysics Letters</i> , 2011, 94, 56001.	2.0	21
64	High-Pressure Behavior and Phase Stability of Al ₅ BO ₉ , a Mullite-Type Ceramic Material. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2583-2592.	3.8	21
65	Cancrinite-group minerals: Crystal-chemical description and properties under non-ambient conditions—A review. <i>American Mineralogist</i> , 2016, 101, 253-265.	1.9	21
66	Compressibility and crystal–fluid interactions in all-silica ferrierite at high pressure. <i>Microporous and Mesoporous Materials</i> , 2015, 218, 42-54.	4.4	20
67	High-pressure study of a natural cancrinite. <i>American Mineralogist</i> , 2012, 97, 872-882.	1.9	19
68	Structural homologies in benzylamino-N,N-bis methylphosphonic acid and its layered zirconium derivative. <i>Journal of Solid State Chemistry</i> , 2004, 177, 4013-4022.	2.9	18
69	High-pressure X-ray and Raman study of a ferrian magnesian spodumene. <i>Physics and Chemistry of Minerals</i> , 2005, 32, 132-139.	0.8	18
70	Green andradite stones: gemmological and mineralogical characterisation. <i>European Journal of Mineralogy</i> , 2011, 23, 91-100.	1.3	18
71	High-pressure behavior of synthetic mordenite-Na: an <i>in situ</i> single-crystal synchrotron X-ray diffraction study. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2015, 230, 201-211.	0.8	18
72	Dimensional reduction in zirconium phosphate; from layers to ribbons to chains. <i>Journal of Materials Chemistry</i> , 2003, 13, 1215-1222.	6.7	17

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73	Crystal chemistry, cation ordering and thermoelastic behaviour of CoMgSiO ₄ olivine at high temperature as studied by in situ neutron powder diffraction. <i>Physics and Chemistry of Minerals</i> , 2005, 32, 655-664.	0.8	17
74	Low-T neutron powder-diffraction and synchrotron-radiation IR study of synthetic amphibole Na(NaMg)Mg ₅ Si ₈ O ₂₂ (OH) ₂ . <i>American Mineralogist</i> , 2005, 90, 695-700.	1.9	17
75	The low-temperature behaviour of cancrinite: an in situ single-crystal X-ray diffraction study. <i>Mineralogical Magazine</i> , 2012, 76, 933-948.	1.4	17
76	Elastic behavior and pressure-induced structure evolution of topaz up to 45 GPa. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 569-577.	0.8	17
77	Crystal chemistry and temperature behavior of the natural hydrous borate colemanite, a mineral commodity of boron. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 405-422.	0.8	17
78	High temperature structural and thermoelastic behaviour of mantle orthopyroxene: an in situ neutron powder diffraction study. <i>Physics and Chemistry of Minerals</i> , 2007, 34, 185-200.	0.8	16
79	Phase stability, elastic behavior, and pressure-induced structural evolution of kalsilite: A ceramic material and high-T/high-P mineral. <i>American Mineralogist</i> , 2011, 96, 1363-1372.	1.9	16
80	Phase stability and thermo-elastic behavior of CsAlSiO ₄ (ABW): A potential nuclear waste disposal material. <i>Microporous and Mesoporous Materials</i> , 2012, 163, 147-152.	4.4	16
81	Thermoelastic behavior and dehydration process of cancrinite. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 373-386.	0.8	16
82	High-pressure behavior and P-induced phase transition of CaB ₃ O ₄ (OH) ₃ ·H ₂ O (colemanite). <i>Journal of the American Ceramic Society</i> , 2017, 100, 2209-2220.	3.8	16
83	Anisotropic compressional behavior of ettringite. <i>Cement and Concrete Research</i> , 2019, 120, 46-51.	11.0	16
84	Aquamarine, Maxixe-Type Beryl, and Hydrothermal Synthetic Blue Beryl: Analysis and Identification. <i>Gems & Gemology</i> , 2008, 44, 214-226.	0.6	16
85	New insights on pressure, temperature, and chemical stability of CsAlSi ₅ O ₁₂ , a potential host for nuclear waste. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 639-647.	0.8	15
86	Thermal equations of state of dioctahedral micas on the join muscovite-paragonite. <i>Physics and Chemistry of Minerals</i> , 2002, 29, 538-544.	0.8	14
87	Gemmological investigation of a synthetic blue beryl: a multi-methodological study. <i>Mineralogical Magazine</i> , 2008, 72, 799-808.	1.4	14
88	Effects of temperature on the crystal structure of epidote: a neutron single-crystal diffraction study at 293 and 1,070 ÅK. <i>Physics and Chemistry of Minerals</i> , 2010, 37, 475-485.	0.8	14
89	Crystal-chemistry of phillipsites from the Neapolitan Yellow Tuff. <i>European Journal of Mineralogy</i> , 2010, 22, 779-786.	1.3	14
90	On the high-pressure behavior of gobbinsite, the natural counterpart of the synthetic zeolite Na ⁺ P ₂ . <i>Microporous and Mesoporous Materials</i> , 2012, 163, 259-269.	4.4	14

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91	A single-crystal neutron and X-ray diffraction study of elbaite. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 577-588.	0.8	14
92	Crystal-fluid interactions in laumontite. <i>Microporous and Mesoporous Materials</i> , 2018, 263, 86-95.	4.4	14
93	Minerals in cement chemistry: A single-crystal neutron diffraction study of ettringite, $\text{Ca}_6\text{Al}_2(\text{SO}_4)_3(\text{OH})_{12}\cdot 27\text{H}_2\text{O}$. <i>American Mineralogist</i> , 2019, 104, 73-78.	1.9	14
94	Diammonium Hydrogenphosphate Treatment on Dolostone: the Role of Mg in the Crystallization Process. <i>Coatings</i> , 2019, 9, 169.	2.6	14
95	New insight into the crystal structure of orthorhombic edingtonite: evidence for a split Ba site. <i>Mineralogical Magazine</i> , 2004, 68, 167-175.	1.4	13
96	On the thermo-elastic behaviour of kyanite: a neutron powder diffraction study up to 1200Å°C. <i>Mineralogical Magazine</i> , 2006, 70, 309-317.	1.4	13
97	On the crystal chemistry of londonite [(Cs,K,Rb)Al ₄ Be ₅ B ₁₁ O ₂₈]: A single-crystal neutron diffraction study at 300 and 20 K. <i>American Mineralogist</i> , 2010, 95, 1467-1472.	1.9	13
98	A single-crystal neutron diffraction study of hambergite, $\text{Be}_2\text{BO}_3(\text{OH},\text{F})$. <i>American Mineralogist</i> , 2012, 97, 1891-1897.	1.9	13
99	Raman and structural comparison between the new gemstone pezzottaite $\text{Cs}(\text{Be}_{22}\text{Li})\text{Al}_{12}\text{Si}_6\text{O}_{18}$ and $\text{Cs}\epsilon$ -beryl. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 993-999.	2.5	13
100	High-pressure Raman spectroscopy of $\text{Ca}(\text{Mg},\text{Co})\text{Si}_2\text{O}_6$ and $\text{Ca}(\text{Mg},\text{Co})\text{Ge}_2\text{O}_6$ clinopyroxenes. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1443-1448.	2.5	13
101	High-brilliance X-ray system for high-pressure in-house research: applications for studies of superhard materials. <i>High Pressure Research</i> , 2006, 26, 137-143.	1.2	12
102	Stability of $(\text{Cs}, \text{K})\text{Al}_4\text{Be}_5\text{B}_{11}\text{O}_{28}$ (londonite) at high pressure and high temperature: a potential neutron absorber material. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 429-434.	0.8	12
103	On the crystal chemistry and elastic behavior of a phlogopite 3T. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 655-664.	0.8	12
104	A single-crystal neutron and X-ray diffraction study of pezzottaite, $\text{Cs}(\text{Be}_2\text{Li})\text{Al}_2\text{Si}_6\text{O}_{18}$. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 829-840.	0.8	12
105	Behaviour at high pressure of $\text{Rb}_7\text{NaGa}_8\text{Si}_{12}\text{O}_{40}\cdot 3\text{H}_2\text{O}$ (a zeolite with EDI topology): a combined experimental-computational study. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 209-216.	0.8	12
106	On the P-induced behavior of the zeolite phillipsite: an in situ single-crystal synchrotron X-ray diffraction study. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 1-20.	0.8	12
107	The High-Pressure Structural Evolution of Olivine along the Forsterite-Fayalite Join. <i>Minerals (Basel)</i> , 2020, 10, 784-814.	2.0	12
108	Synchrotron radiation λ X-ray diffraction in transmission geometry for investigating the penetration depth of conservation treatments on cultural heritage stone materials. <i>Analytical Methods</i> , 2020, 12, 1587-1594.	2.7	12

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109	Elastic behavior of vanadinite, $Pb_{10}(VO_4)_6Cl_2$, a microporous non-zeolitic mineral. <i>Physics and Chemistry of Minerals</i> , 2009, 36, 311-317.	0.8	11
110	A high-pressure cubic-to-tetragonal phase-transition in melanophlogite, a SiO_2 clathrate phase. <i>Microporous and Mesoporous Materials</i> , 2010, 129, 267-273.	4.4	11
111	Crystal structure and low-temperature behavior of "disordered" thomsonite. <i>American Mineralogist</i> , 2010, 95, 495-502.	1.9	11
112	Reinvestigation of the crystal structure of the zeolite gobbinsite: A single-crystal X-ray diffraction study. <i>American Mineralogist</i> , 2010, 95, 481-486.	1.9	11
113	Elastic behaviour and phase stability of pyrophyllite and talc at high pressure and temperature. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 309-318.	0.8	11
114	Consolidation of building materials with a phosphate-based treatment: Effects on the microstructure and on the 3D pore network. <i>Materials Characterization</i> , 2019, 154, 315-324.	4.4	11
115	High-pressure behavior and phase stability of $Na_2B_4O_6(OH)_2 \cdot 3H_2O$ (kernite). <i>Journal of the American Ceramic Society</i> , 2020, 103, 5291-5301.	3.8	11
116	Pressure-induced structural evolution and elastic behaviour of $Na_6Cs_2Ga_6Ge_6O_{24} \cdot Ge(OH)_6$ variant of cancrinite: A synchrotron powder diffraction study. <i>Microporous and Mesoporous Materials</i> , 2008, 116, 51-58.	4.4	10
117	Structure alterations in microporous $(Mg,Fe)_2Al_4Si_5O_{18}$ crystals induced by energetic heavy-ion irradiation. <i>Journal of Solid State Chemistry</i> , 2010, 183, 2372-2381.	2.9	10
118	The high-pressure behavior of orthorhombic amphiboles. <i>American Mineralogist</i> , 2011, 96, 623-630.	1.9	10
119	Coexisting hydroxyl groups and H_2O molecules in minerals: A single-crystal neutron diffraction study of eosphorite, $MnAlPO_4(OH)_2 \cdot H_2O$. <i>American Mineralogist</i> , 2013, 98, 1297-1301.	1.9	10
120	High-pressure Raman spectroscopy on low albite. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 213-220.	0.8	10
121	What's underneath? A non-destructive depth profile of painted stratigraphies by synchrotron grazing incidence X-ray diffraction. <i>Analyst</i> , The, 2018, 143, 4290-4297.	3.5	10
122	Age, palaeoenvironment, and preservation of prehistoric petroglyphs on a boulder in the oasis of Salut (northern Sultanate of Oman). <i>Quaternary International</i> , 2021, 572, 106-119.	1.5	10
123	On the low-temperature behavior of the zeolite gobbinsite: A single-crystal X-ray diffraction study. <i>Microporous and Mesoporous Materials</i> , 2011, 143, 467-476.	4.4	9
124	On the complex H-bonding network in paravauxite, $Fe^{2+}_2Al_2(PO_4)_2(OH)_2 \cdot 8H_2O$: A single-crystal neutron diffraction study. <i>Mineralogical Magazine</i> , 2014, 78, 841-850.	1.4	9
125	Single-crystal neutron diffraction and Raman spectroscopic study of hydroxylherderite, $CaBePO_4(OH,F)$. <i>Mineralogical Magazine</i> , 2014, 78, 723-737.	1.4	9
126	High-pressure behavior and crystal-fluid interaction under extreme conditions in paulingite [PAU-topology]. <i>Microporous and Mesoporous Materials</i> , 2015, 206, 34-41.	4.4	9

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127	Grazing incidence synchrotron X-ray diffraction of marbles consolidated with diammonium hydrogen phosphate treatments: non-destructive probing of buried minerals. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	9
128	Thermal and compressional behavior of the natural borate kurnakovite, $MgB_3O_3(OH) \cdot 5H_2O$. <i>Construction and Building Materials</i> , 2021, 266, 121094.	7.2	9
129	Phase transition and high-pressure behavior of ulexite, a potential aggregate in radiation-shielding concretes. <i>Construction and Building Materials</i> , 2021, 291, 123188.	7.2	9
130	Crystal chemistry of leucite from the Roman Comagmatic Province (central Italy): a multi-methodological study. <i>Mineralogical Magazine</i> , 2007, 71, 671-682.	1.4	8
131	Equation of state and structure of prehnite to 9.8 GPa. <i>European Journal of Mineralogy</i> , 2009, 21, 561-570.	1.3	8
132	The magnetite ore districts of the southern Aosta Valley (Western Alps, Italy): a mineralogical study of metasomatized chromite ore. <i>Mineralogical Magazine</i> , 2009, 73, 737-751.	1.4	8
133	A low temperature X-ray single-crystal diffraction and polarised infra-red study of epidote. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 1-15.	0.8	8
134	Thermal expansion and high temperature structure evolution of zoisite by single-crystal X-ray and neutron diffraction. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 27-45.	0.8	8
135	Neutron diffraction in gemology: Single-crystal diffraction study of brazilianite, $NaAl_3(PO_4)_2(OH)_4$. <i>American Mineralogist</i> , 2013, 98, 1624-1630.	1.9	8
136	Static elasticity of cordierite I: Effect of heavy ion irradiation on the compressibility of hydrous cordierite. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 579-591.	0.8	8
137	New data on Cu-exchanged phillipsite: a multi-methodological study. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 723-733.	0.8	8
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