

Alessandro F Gualtieri

List of Publications by Year in descending order

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177
papers

6,597
citations

61984

43
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73
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180
all docs

180
docs citations

180
times ranked

6552
citing authors

#	ARTICLE	IF	CITATIONS
1	Accuracy of XRPD QPA using the combined Rietveld-RIR method. <i>Journal of Applied Crystallography</i> , 2000, 33, 267-278.	4.5	372
2	In situ study of the goethite-hematite phase transformation by real time synchrotron powder diffraction. <i>American Mineralogist</i> , 1999, 84, 895-904.	1.9	295
3	The nature of disorder in montmorillonite by simulation of X-ray powder patterns. <i>American Mineralogist</i> , 2002, 87, 966-975.	1.9	258
4	Kinetic study of the kaolinite-mullite reaction sequence. Part I: Kaolinite dehydroxylation. <i>Physics and Chemistry of Minerals</i> , 1995, 22, 207.	0.8	179
5	Cation Migration in Zeolites: An in Situ Powder Diffraction and MAS NMR Study of the Structure of Zeolite Cs(Na)Y during Dehydration. <i>Journal of Physical Chemistry B</i> , 1998, 102, 839-856.	2.6	155
6	Combined MAS NMR and X-ray Powder Diffraction Structural Characterization of Hydrofluorocarbon-134 Adsorbed on Zeolite NaY: Observation of Cation Migration and Strong Sorbate-Cation Interactions. <i>Journal of the American Chemical Society</i> , 1997, 119, 1981-1989.	13.7	153
7	Synthesis of sodium zeolites from a natural halloysite. <i>Physics and Chemistry of Minerals</i> , 2001, 28, 719-728.	0.8	148
8	The use of illitic clays in the production of stoneware tile ceramics. <i>Applied Clay Science</i> , 2006, 32, 73-81.	5.2	138
9	Tubular-Shaped Stoichiometric Chrysotile Nanocrystals. <i>Chemistry - A European Journal</i> , 2004, 10, 3043-3049.	3.3	128
10	Consensus Report of the 2015 Weinman International Conference on Mesothelioma. <i>Journal of Thoracic Oncology</i> , 2016, 11, 1246-1262.	1.1	122
11	Kinetic study of the kaolinite-mullite reaction sequence. Part II: Mullite formation. <i>Physics and Chemistry of Minerals</i> , 1995, 22, 215.	0.8	119
12	Thermal decomposition of asbestos and recycling in traditional ceramics. <i>Journal of the European Ceramic Society</i> , 2000, 20, 1409-1418.	5.7	113
13	Thermal conductivity of fired clays: Effects of mineralogical and physical properties of the raw materials. <i>Applied Clay Science</i> , 2010, 49, 269-275.	5.2	106
14	Kinetics of illite dehydroxylation. <i>Physics and Chemistry of Minerals</i> , 2006, 33, 490-501.	0.8	99
15	Kinetics of formation of zeolite Na-A [LTA] from natural kaolinites. <i>Physics and Chemistry of Minerals</i> , 1997, 24, 191-199.	0.8	94
16	Powder X-ray diffraction data for the new polymorphic compound Bi_2O_3 . <i>Powder Diffraction</i> , 1997, 12, 90-92.	0.2	90
17	High temperature dehydroxylation of muscovite-2M 1 : a kinetic study by in situ XRPD. <i>Physics and Chemistry of Minerals</i> , 1999, 26, 375-381.	0.8	84
18	Structural characterization of the clay mineral illite-1M. <i>Journal of Applied Crystallography</i> , 2008, 41, 402-415.	4.5	82

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19	Multipurpose imaging-plate camera for in situ powder XRD at the GILDA beamline. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 1162-1166.	2.4	81
20	Kinetic study of the dehydroxylation of chrysotile asbestos with temperature by in situ XRPD. <i>Physics and Chemistry of Minerals</i> , 2003, 30, 177-183.	0.8	81
21	Simultaneous refinement of structure and microstructure of layered materials. <i>Journal of Applied Crystallography</i> , 2004, 37, 166-173.	4.5	81
22	Silver-Modified Nano-titania as an Antibacterial Agent and Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4751-4766.	3.1	81
23	Preparation of phosphoric acid-based geopolymer foams using limestone as pore forming agent – Thermal properties by in situ XRPD and Rietveld refinements. <i>Journal of the European Ceramic Society</i> , 2015, 35, 3167-3178.	5.7	80
24	Template Burning inside TS-1 and Fe-MFI Molecular Sieves: An in Situ XRPD Study. <i>Journal of the American Chemical Society</i> , 2003, 125, 14549-14558.	13.7	79
25	The transformation sequence of cement-asbestos slates up to 1200°C and safe recycling of the reaction product in stoneware tile mixtures. <i>Journal of Hazardous Materials</i> , 2008, 152, 563-570.	12.4	78
26	Modelling the structure of the metastable phases in the reaction sequence kaolinite-mullite by X-ray scattering experiments. <i>Physics and Chemistry of Minerals</i> , 1998, 25, 442-452.	0.8	77
27	Dehydration dynamics of analcime by in situ synchrotron powder diffraction. <i>American Mineralogist</i> , 1999, 84, 112-119.	1.9	77
28	The use of nepheline-syenite in a body mix for porcelain stoneware tiles. <i>Ceramics International</i> , 2005, 31, 233-240.	4.8	73
29	Sol-gel synthesis, characterisation and photocatalytic activity of pure, W-, Ag- and W/Ag co-doped TiO ₂ nanopowders. <i>Chemical Engineering Journal</i> , 2013, 214, 364-375.	12.7	73
30	Modulation of the Absorption, Fluorescence, and Liquid-Crystal Properties of Functionalised Diarylethene Derivatives. <i>Chemistry - A European Journal</i> , 2004, 10, 5243-5250.	3.3	70
31	Inorganic polymers from laterite using activation with phosphoric acid and alkaline sodium silicate solution: Mechanical and microstructural properties. <i>Cement and Concrete Research</i> , 2015, 67, 259-270.	11.0	70
32	Rietveld Refinement using Synchrotron X-ray Powder Diffraction Data Collected in Transmission Geometry using an Imaging-Plate Detector: Application to Standard m-ZrO ₂ . <i>Journal of Applied Crystallography</i> , 1996, 29, 707-713.	4.5	69
33	The zeta potential of mineral fibres. <i>Journal of Hazardous Materials</i> , 2014, 276, 469-479.	12.4	68
34	Preparation of magnesium phosphate cement by recycling the product of thermal transformation of asbestos containing wastes. <i>Cement and Concrete Research</i> , 2014, 58, 56-66.	11.0	62
35	Dehydration dynamics of stilbite using synchrotron X-ray powder diffraction. <i>American Mineralogist</i> , 1997, 82, 729-739.	1.9	59
36	The dehydroxylation of serpentine group minerals. <i>American Mineralogist</i> , 2012, 97, 666-680.	1.9	56

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37	Nature of Structural Disorder in Natural Kaolinites: A New Model Based on Computer Simulation of Powder Diffraction Data and Electrostatic Energy Calculation. <i>Clays and Clay Minerals</i> , 1995, 43, 438-445.	1.3	53
38	Recycling of the product of thermal inertization of cementâ€“asbestos for various industrial applications. <i>Waste Management</i> , 2011, 31, 91-100.	7.4	53
39	Phase composition, crystal structure and microstructure of silver and tungsten doped TiO ₂ nanopowders with tuneable photochromic behaviour. <i>Acta Materialia</i> , 2013, 61, 5571-5585.	7.9	53
40	Thermal Behavior of the Raw Materials Forming Porcelain Stoneware Mixtures by Combined Optical and In Situ X-Ray Dilatometry. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1222-1231.	3.8	51
41	Crystal chemistry of the zeolites erionite and offretite. <i>American Mineralogist</i> , 1998, 83, 577-589.	1.9	48
42	In situ synchrotron powder diffraction study of the setting reaction kinetics of magnesium-potassium phosphate cements. <i>Cement and Concrete Research</i> , 2016, 79, 344-352.	11.0	46
43	In situ ESEM study of the thermal decomposition of chrysotile asbestos in view of safe recycling of the transformation product. <i>Journal of Hazardous Materials</i> , 2008, 156, 260-266.	12.4	45
44	TG/DSC study of the thermal behaviour of hazardous mineral fibres. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 2225-2239.	3.6	45
45	The chemical environment of iron in mineral fibres. A combined X-ray absorption and MÃ“ssbauer spectroscopic study. <i>Journal of Hazardous Materials</i> , 2015, 298, 282-293.	12.4	44
46	Towards a quantitative model to predict the toxicity/pathogenicity potential of mineral fibers. <i>Toxicology and Applied Pharmacology</i> , 2018, 361, 89-98.	2.8	41
47	Recycling of the product of thermal inertization of cementâ€“asbestos for the production of concrete. <i>Construction and Building Materials</i> , 2011, 25, 3561-3569.	7.2	40
48	Removal of fluoroquinolone contaminants from environmental waters on sepiolite and its photo-induced regeneration. <i>Chemosphere</i> , 2016, 150, 686-693.	8.2	40
49	In vitro acellular dissolution of mineral fibres: A comparative study. <i>Scientific Reports</i> , 2018, 8, 7071.	3.3	40
50	Quantitative determination of the amorphous phase in plasma sprayed alumina coatings using the Rietveld method. <i>Surface and Coatings Technology</i> , 2006, 201, 2984-2989.	4.8	39
51	Crack formation in Î±-alumina supported MFI zeolite membranes studied by in situ high temperature synchrotron powder diffraction. <i>Journal of Membrane Science</i> , 2007, 290, 95-104.	8.2	39
52	Determination of low levels of free fibres of chrysotile in contaminated soils by X-ray diffraction and FTIR spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 653-658.	3.7	34
53	Quantitative phase analysis of hydraulic limes using the Rietveld method. <i>Cement and Concrete Research</i> , 2006, 36, 401-406.	11.0	34
54	Cronstedtâ€“s zeolite. <i>Microporous and Mesoporous Materials</i> , 2007, 105, 213-221.	4.4	34

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55	Kinetic study of hydroxysodalite formation from natural kaolinites by time-resolved synchrotron powder diffraction. <i>Microporous Materials</i> , 1997, 9, 189-201.	1.6	33
56	Biodurability and release of metals during the dissolution of chrysotile, crocidolite and fibrous erionite. <i>Environmental Research</i> , 2019, 171, 550-557.	7.5	33
57	Wollastonite polytypes in the CaO-SiO ₂ system.. <i>Physics and Chemistry of Minerals</i> , 2000, 27, 565-574.	0.8	32
58	Recycling the product of thermal transformation of cement-asbestos for the preparation of calcium sulfoaluminate clinker. <i>Journal of Hazardous Materials</i> , 2013, 260, 813-818.	12.4	32
59	Full quantitative phase analysis of hydrated lime using the Rietveld method. <i>Cement and Concrete Research</i> , 2012, 42, 1273-1279.	11.0	31
60	Frictional properties of fault zone gouges from the J&FAST drilling project (<i>M</i> _w 9.0) Tj ETQq0 0.0 rgBT /Overlock 10	4.0	31
61	Production of nanoparticles during experimental deformation of smectite and implications for seismic slip. <i>Earth and Planetary Science Letters</i> , 2017, 463, 221-231.	4.4	31
62	Spectroscopic study of the product of thermal transformation of chrysotile-asbestos containing materials (ACM). <i>European Journal of Mineralogy</i> , 2010, 22, 535-546.	1.3	30
63	Iron from a geochemical viewpoint. Understanding toxicity/pathogenicity mechanisms in iron-bearing minerals with a special attention to mineral fibers. <i>Free Radical Biology and Medicine</i> , 2019, 133, 21-37.	2.9	30
64	Rietveld structure refinement of NH ₄ -exchanged natural chabazite. <i>European Journal of Mineralogy</i> , 2006, 18, 351-359.	1.3	29
65	The influence of heating rate on template removal in silicalite-1: An in situ HT-XRPD study. <i>Microporous and Mesoporous Materials</i> , 2006, 89, 1-8.	4.4	29
66	Assessment of asbestos body formation by high resolution FEG-SEM after exposure of Sprague-Dawley rats to chrysotile, crocidolite, or erionite. <i>Journal of Hazardous Materials</i> , 2016, 306, 95-104.	12.4	29
67	Ambient monitoring of asbestos in selected Italian living areas. <i>Journal of Environmental Management</i> , 2009, 90, 3540-3552.	7.8	28
68	Influence of body composition on the technological properties and mineralogy of stoneware: A DOE and mineralogical microstructural study. <i>Journal of the European Ceramic Society</i> , 2011, 31, 673-685.	5.7	28
69	Crystal chemistry of the high temperature product of transformation of cement-asbestos. <i>Journal of Hazardous Materials</i> , 2013, 248-249, 69-80.	12.4	28
70	Where is iron in erionite? A multidisciplinary study on fibrous erionite-Na from Jersey (Nevada, USA). <i>Scientific Reports</i> , 2016, 6, 37981.	3.3	28
71	Rapid and accurate quantitative phase analysis using a fast detector. <i>Journal of Applied Crystallography</i> , 2004, 37, 8-13.	4.5	27
72	Biological effects and comparative cytotoxicity of thermal transformed asbestos-containing materials in a human alveolar epithelial cell line. <i>Toxicology in Vitro</i> , 2010, 24, 1521-1531.	2.4	27

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73	The thermal transformation of Man Made Vitreous Fibers (MMVF) and safe recycling as secondary raw materials (SRM). <i>Journal of Hazardous Materials</i> , 2009, 162, 1494-1506.	12.4	26
74	Accuracy in quantitative phase analysis of mixtures with large amorphous contents. The case of stoneware ceramics and bricks. <i>Journal of Applied Crystallography</i> , 2014, 47, 835-846.	4.5	26
75	Phase transformations and reaction kinetics during the temperature-induced oxidation of natural olivine. <i>American Mineralogist</i> , 2003, 88, 1560-1574.	1.9	25
76	Study of NH ₄ ⁺ in the zeolite phillipsite by combined synchrotron powder diffraction and IR spectroscopy. <i>Acta Crystallographica Section B: Structural Science</i> , 2000, 56, 584-593.	1.8	23
77	Crystal chemistry of cement-asbestos. <i>American Mineralogist</i> , 2013, 98, 1095-1105.	1.9	23
78	Stability of mineral fibres in contact with human cell cultures. An in situ ⁵⁷ Fe XANES, ⁵⁷ Fe XRD and XRF iron mapping study. <i>Chemosphere</i> , 2016, 164, 547-557.	8.2	23
79	Crop evapotranspiration assessment under climate change in the Pannonian basin during 1991-2050. <i>Meteorological Applications</i> , 2017, 24, 84-91.	2.1	23
80	Ion exchange selectivity of phillipsite for Cs ⁺ : a structural investigation using the Rietveld method. <i>Microporous and Mesoporous Materials</i> , 1999, 32, 319-329.	4.4	22
81	The atomic structure of bakerite and its relationship to datolite. <i>American Mineralogist</i> , 2004, 89, 767-776.	1.9	22
82	Rietveld Structure Refinement of Zeolite ECR-1. <i>Chemistry of Materials</i> , 2006, 18, 76-84.	6.7	22
83	Recycling of the product of thermal inertization of cement-asbestos in geopolymers. <i>Construction and Building Materials</i> , 2012, 31, 47-51.	7.2	22
84	The order-disorder character of FeOHSO ₄ obtained from the thermal decomposition of metahohmannite, Fe ₃ +2(H ₂ O) ₄ [O(SO ₄) ₂]. <i>American Mineralogist</i> , 2005, 90, 679-686.	1.9	21
85	Investigation of the Setting Reaction in Magnesium Phosphate Ceramics with Quasielastic Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11355-11367.	3.1	21
86	Is fibrous ferrierite a potential health hazard? Characterization and comparison with fibrous erionite. <i>American Mineralogist</i> , 2018, 103, 1044-1055.	1.9	21
87	Effect of Grinding on Chrysotile, Amosite and Crocidolite and Implications for Thermal Treatment. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 135.	2.0	21
88	Differential anomalous wide-angle X-ray scattering and X-ray absorption experiments to investigate the formation of glass ceramics in the CaO-SiO ₂ -ZrO ₂ system. <i>Journal of Applied Crystallography</i> , 1999, 32, 1090-1099.	4.5	20
89	Crystallization Kinetics of Bioactive Glasses in the ZnO-Na ₂ O-CaO-SiO ₂ System. <i>Journal of Physical Chemistry A</i> , 2007, 111, 8401-8408.	2.5	20
90	Climate change effects on crop evapotranspiration in the Carpathian Region from 1961 to 2010. <i>Meteorological Applications</i> , 2016, 23, 462-469.	2.1	20

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91	Interactions between lead oxide and ceramic substrates for thick film technology. <i>Journal of Materials Research</i> , 1997, 12, 501-508.	2.6	19
92	In situ dehydration of yugawaralite. <i>American Mineralogist</i> , 2001, 86, 185-192.	1.9	19
93	Determination of the concentration of asbestos minerals in highly contaminated mine tailings: An example from abandoned mine waste of Cretaz and Emarese (Valle d'Aosta, Italy). <i>American Mineralogist</i> , 2014, 99, 1233-1247.	1.9	19
94	Bridging the gap between toxicity and carcinogenicity of mineral fibres by connecting the fibre crystal-chemical and physical parameters to the key characteristics of cancer. <i>Current Research in Toxicology</i> , 2021, 2, 42-52.	2.7	19
95	Formation of \pm -Eucryptite, LiAlSiO_4 : An In-Situ Synchrotron X-ray Powder Diffraction Study of a High Temperature Hydrothermal Synthesis. <i>Chemistry of Materials</i> , 2000, 12, 1473-1479.	6.7	18
96	Lead-free thick film resistors: an explorative investigation. <i>Journal of Materials Science: Materials in Electronics</i> , 2002, 13, 31-37.	2.2	18
97	Magnetic and nuclear structure of goethite (\pm -FeOOH): a neutron diffraction study. <i>Journal of Applied Crystallography</i> , 2014, 47, 1983-1991.	4.5	18
98	Nitrogen-modified nano-titania: True phase composition, microstructure and visible-light induced photocatalytic NO abatement. <i>Journal of Solid State Chemistry</i> , 2015, 231, 87-100.	2.9	18
99	Quantitative determination of chrysotile in massive serpentinites using DTA: Implications for asbestos determinations. <i>American Mineralogist</i> , 2011, 96, 1003-1011.	1.9	17
100	Structure Model and Toxicity of the Product of Biodissolution of Chrysotile Asbestos in the Lungs. <i>Chemical Research in Toxicology</i> , 2019, 32, 2063-2077.	3.3	17
101	Characterization and assessment of the potential toxicity/pathogenicity of fibrous glaucophane. <i>Environmental Research</i> , 2019, 178, 108723.	7.5	17
102	Rietveld structure refinement of Sr-exchanged phillipsites. <i>Microporous and Mesoporous Materials</i> , 1999, 31, 33-43.	4.4	16
103	Kinetic study of the drying process of clay bricks. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 153-167.	3.6	16
104	Structural characterization and functional correlation of Fe_3O_4 nanocrystals obtained using 2-ethyl-1,3-hexanediol as innovative reactive solvent in non-hydrolytic sol-gel synthesis. <i>Materials Chemistry and Physics</i> , 2018, 207, 337-349.	4.0	16
105	Infra Red Spectroscopy of the Regulated Asbestos Amphiboles. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 413.	2.0	16
106	The Effect of Grinding on Tremolite Asbestos and Anthophyllite Asbestos. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 142-150.	2.0	16
107	Recycling of thermally treated cement-asbestos for the production of porcelain stoneware slabs. <i>Journal of Cleaner Production</i> , 2020, 247, 119084.	9.3	16
108	Modelling the nature of disorder in talc by simulation of X-ray powder patterns. <i>European Journal of Mineralogy</i> , 1999, 11, 521-532.	1.3	16

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109	Mullite and cristobalite formation in fired products starting from halloysitic clay. <i>Applied Clay Science</i> , 1992, 7, 251-262.	5.2	15
110	Quantitative phase analysis and microstructure characterization of magnetite nanocrystals obtained by microwave assisted non-hydrolytic sol-gel synthesis. <i>Materials Characterization</i> , 2015, 100, 88-97.	4.4	15
111	Emission of fibres and atmospheric pollutants from the thermal treatment of asbestos containing waste (ACW). <i>Journal of Cleaner Production</i> , 2020, 268, 122179.	9.3	15
112	Dissolution kinetics and diffusivity of silver in glassy layers for hybrid microelectronics. <i>Journal of Materials Science: Materials in Electronics</i> , 2004, 15, 447-453.	2.2	14
113	The structure of metaohmannite, $\text{Fe}_{2+3+}[\text{O}(\text{SO}_4)_{2+}] \cdot 4\text{H}_2\text{O}$, by in situ synchrotron powder diffraction. <i>American Mineralogist</i> , 2004, 89, 365-370.	1.9	14
114	New insights into the toxicity of mineral fibres: A combined in situ synchrotron μ -XRD and HR-TEM study of chrysotile, crocidolite, and erionite fibres found in the tissues of Sprague-Dawley rats. <i>Toxicology Letters</i> , 2017, 274, 20-30.	0.8	14
115	X-ray powder diffraction quantitative analysis performed in situ at high temperature: application to the determination of NiO in ceramic pigments. <i>Journal of Applied Crystallography</i> , 1999, 32, 808-813.	4.5	13
116	The crystal chemistry of paulingite. <i>European Journal of Mineralogy</i> , 2001, 13, 113-119.	1.3	13
117	Seeded growth of TPA-MFI films using the fluoride route. <i>Microporous and Mesoporous Materials</i> , 2008, 111, 604-611.	4.4	13
118	Development of Low-Firing Fluxed Stoneware Tiles. <i>Journal of the American Ceramic Society</i> , 2009, 92, 2571-2577.	3.8	13
119	XANES study of the local environment of iron in natural kaolinities. <i>European Journal of Mineralogy</i> , 2000, 12, 17-23.	1.3	13
120	A solution for the full impregnation of asbestos: The use of an epoxy polymer resin. <i>Journal of Applied Polymer Science</i> , 2000, 75, 713-720.	2.6	12
121	Devitrification kinetics of high lead glass for hybrid microelectronics. <i>Solid State Sciences</i> , 2001, 3, 667-674.	0.7	12
122	Mineralogical and Optical Characterization of SiO_2 , Ni , and SiO_2/NiCo -Doped Titania Nanopowders. <i>Journal of the American Ceramic Society</i> , 2012, 95, 1709-1716.	3.8	12
123	Mechanism of lustre formation in scheelite-based glazes. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2055-2064.	5.7	12
124	Assessment of the potential hazard represented by natural raw materials containing mineral fibres – The case of the feldspar from Orani, Sardinia (Italy). <i>Journal of Hazardous Materials</i> , 2018, 350, 76-87.	12.4	12
125	Determination of Nickel(II) Oxide in Ceramic Pigments by In Situ X-ray Diffraction Quantitative Analysis. <i>Journal of the American Ceramic Society</i> , 1999, 82, 2566-2568.	3.8	11
126	The structure of K-hydrosodalite. <i>Microporous and Mesoporous Materials</i> , 2006, 96, 276-286.	4.4	11

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127	Direnzoite, [NaK ₆ MgCa ₂ (Al ₁₃ Si ₄ 7O ₁₂₀)·36H ₂ O], a new zeolite from Massif Central (France): Description and crystal structure. <i>American Mineralogist</i> , 2008, 93, 95-102.	1.9	11
128	Influence of sol counter-ions on the anatase-to-rutile phase transformation and microstructure of nanocrystalline TiO ₂ . <i>CrystEngComm</i> , 2015, 17, 1813-1825.	2.6	11
129	In vitro toxicity of fibrous glaucophane. <i>Toxicology</i> , 2021, 454, 152743.	4.2	11
130	Interactions between bismuth oxide and ceramic substrates for thick film technology. <i>Journal of Materials Research</i> , 1998, 13, 1865-1874.	2.6	10
131	The thermal stability of sideronatrite and its decomposition products in the system Na ₂ O-Fe ₂ O ₃ -SO ₂ -H ₂ O. <i>Physics and Chemistry of Minerals</i> , 2013, 40, 659-670.	0.8	10
132	Accuracy in quantitative phase analysis of mixtures with large amorphous contents. The case of zircon-rich sanitary-ware glazes. <i>Journal of Applied Crystallography</i> , 2014, 47, 136-145.	4.5	10
133	Characterization and assessment of the potential toxicity/pathogenicity of Russian commercial chrysotile. <i>American Mineralogist</i> , 2021, 106, 1606-1621.	1.9	10
134	In situ high-temperature synchrotron powder diffraction study of the thermal decomposition of cement-asbestos. <i>Powder Diffraction</i> , 2008, 23, 323-328.	0.2	9
135	In vitro biodurability of the product of thermal transformation of cement-asbestos. <i>Journal of Hazardous Materials</i> , 2012, 205-206, 63-71.	12.4	9
136	In situ high-temperature XRD and FTIR investigation of hohmannite, a water-rich Fe-sulfate, and its decomposition products. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 1793-1802.	3.6	9
137	Characterisation of fibrous ferrierite in the rhyolitic tuffs at Lovelock, Nevada, USA. <i>Mineralogical Magazine</i> , 2019, 83, 577-586.	1.4	9
138	Occurrence and characterization of tremolite asbestos from the Mid Atlantic Ridge. <i>Scientific Reports</i> , 2021, 11, 6285.	3.3	9
139	Acute cytotoxicity of mineral fibres observed by time-lapse video microscopy. <i>Toxicology</i> , 2022, 466, 153081.	4.2	9
140	Chromium crystal chemistry mullite-spinel refractory ceramics. <i>Materials Research Bulletin</i> , 1999, 34, 711-720.	5.2	8
141	Formation of tubular carbonate conduits at Athina mud volcano, eastern Mediterranean Sea. <i>Marine and Petroleum Geology</i> , 2019, 107, 20-31.	3.3	8
142	Experimental quantification of the Fe-valence state at amosite-asbestos boundaries using acSTEM dual-electron energy-loss spectroscopy. <i>American Mineralogist</i> , 2019, 104, 1820-1828.	1.9	8
143	The concept of "end of waste"™ and recycling of hazardous materials: in depth characterization of the product of thermal transformation of cement-asbestos. <i>Mineralogical Magazine</i> , 2014, 78, 1177-1191.	1.4	7
144	Crystal structure determination of a lifelong biopersistent asbestos fibre using single-crystal synchrotron X-ray micro-diffraction. <i>IUCr</i> , 2021, 8, 76-86.	2.2	7

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145	Management of Asbestos Containing Materials: A Detailed LCA Comparison of Different Scenarios Comprising First Time Asbestos Characterization Factor Proposal. <i>Environmental Science & Technology</i> , 2021, 55, 12672-12682.	10.0	7
146	Depicting the crystal structure of fibrous ferrierite from British Columbia using a combined synchrotron techniques approach. <i>Journal of Applied Crystallography</i> , 2019, 52, 1397-1408.	4.5	7
147	Characterisation of potentially toxic natural fibrous zeolites by means of electron paramagnetic resonance spectroscopy and morphological-mineralogical studies. <i>Chemosphere</i> , 2022, 291, 133067.	8.2	7
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