

Roberto Cossio

List of Publications by Year in descending order

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papers

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38
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451
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Modal Determination of Geological Samples Based on X-ray Multielemental Map Acquisition. <i>Microscopy and Microanalysis</i> , 2002, 8, 139-149.	0.4	28
2	Ab initio quantum-mechanical calculation of CaCO ₃ aragonite at high pressure: thermodynamic properties and comparison with experimental data. <i>European Journal of Mineralogy</i> , 2010, 22, 693-701.	1.3	25
3	Recent developments of ion beam induced luminescence at the external scanning microbeam facility of the LABEC laboratory in Florence. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 1527-1532.	1.4	24
4	Micro-PIXE Analysis of Monazite from the Dora Maira Massif, Western Italian Alps. <i>Mikrochimica Acta</i> , 2006, 155, 305-311.	5.0	21
5	<i>μ</i> -XRF Analysis of Trace Elements in Lapis Lazuli-Forming Minerals for a Provenance Study. <i>Microscopy and Microanalysis</i> , 2015, 21, 526-533.	0.4	20
6	An Ab-initio assessment of thermo-elastic properties of CaCO ₃ polymorphs: Calcite case. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2012, 37, 25-33.	1.6	19
7	<i>μ</i> -XRF analysis of glasses: a non-destructive utility for cultural heritage applications. <i>Analyst, The</i> , 2012, 137, 662-667.	3.5	18
8	Volcanic Quartz Growth Zoning Identified by Cathodoluminescence and EPMA Studies. <i>Mikrochimica Acta</i> , 2002, 139, 151-158.	5.0	14
9	PETROMAP: MS-DOS software package for quantitative processing of X-ray maps of zoned minerals. <i>Computers and Geosciences</i> , 1998, 24, 805-814.	4.2	13
10	New petrographic and geochemical tracers for recognizing the provenance quarry of trachyte of the Euganean Hills, northeastern Italy. <i>Geoarchaeology - an International Journal</i> , 2018, 33, 430-452.	1.5	13
11	Combined micro-PIXE facility and monochromatic cathodoluminescence spectroscopy applied to colored minerals of natural stones: an example from amazonite. <i>X-Ray Spectrometry</i> , 2005, 34, 345-349.	1.4	12
12	Raman anisotropy in serpentine minerals, with a caveat on identification. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1334-1345.	2.5	12
13	Textural and Mineralogical Analysis of Volcanic Rocks by <i>μ</i> -XRF Mapping. <i>Microscopy and Microanalysis</i> , 2016, 22, 690-697.	0.4	11
14	Characterization of impurities in cubic boron nitride crystallites with thermoluminescence and ionoluminescence. <i>Physica Status Solidi A</i> , 2004, 201, 2566-2572.	1.7	9
15	Improvements to the analytical protocol of lapis lazuli provenance: First study on Myanmar rock samples. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	9
16	Comparison between major and trace element concentrations in garnet performed by EPMA and micro-PIXE techniques. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 699-709.	2.9	8
17	Chemical Investigation of Coloured Minerals in Natural Stones of Commercial Interest. <i>Mikrochimica Acta</i> , 2004, 145, 249-254.	5.0	7
18	Chemical determination of coloured zoned minerals in natural stones™ by EDS/WDS electron microprobe: an example from dumortierite quartzites. <i>X-Ray Spectrometry</i> , 2004, 33, 21-27.	1.4	7

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19	Vibronic spectrum of c-BN measured with cathodoluminescence. <i>Physical Review B</i> , 2006, 74, .	3.2	7
20	Combined cathodoluminescence spectroscopy, electron microprobe and laser ablation ICP mass spectrometry analysis: an attempt to correlate luminescence and chemical composition of monazite. <i>Mikrochimica Acta</i> , 2008, 161, 313-321.	5.0	7
21	Cathodoluminescence spectra of diamonds in UHP rocks from the Kokchetav Massif, Kazakhstan. <i>Journal of Luminescence</i> , 2008, 128, 1684-1688.	3.1	7
22	Islamic glass weights from Egypt. <i>Journal of Non-Crystalline Solids</i> , 2013, 363, 96-102.	3.1	6
23	A New Approach for Provenance Studies of Archaeological Finds: Inferences from Trace Elements in Carbonate Minerals of Alpine White Marbles by a Bench-to-Top μ -XRF Spectrometer. <i>International Journal of Mineralogy</i> , 2014, 2014, 1-11.	0.6	6
24	The intracrystalline microstructure of Monte Fico lizardite, by optics, μ -Raman spectroscopy and TEM. <i>European Journal of Mineralogy</i> , 2021, 33, 425-432.	1.3	6
25	Micro-PIXE determination of Zr in rutile: an application to geothermometry of high- P rocks from the western Alps (Italy). <i>X-Ray Spectrometry</i> , 2008, 37, 146-150.	1.4	5
26	Petrofacies for the prediction of NOA content in rocks: application to the "Gronda di Genova" tunneling project. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 185-204.	3.5	5
27	A mineralogical application of micro-PIXE technique: Yttrium zoning in garnet from metamorphic rocks and its petrologic meaning. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 189, 412-417.	1.4	4
28	EPMA Major and Trace Element Analysis in Garnet and its Petrological Application. <i>Mikrochimica Acta</i> , 2002, 139, 17-25.	5.0	4
29	Automated SEM-EDS pottery classification based on mineralogical quantitative parameters: An application on ancient Greek pottery from Adrano (NE Sicily, Italy). <i>X-Ray Spectrometry</i> , 2020, 49, 291-301.	1.4	4
30	Compositional X-Ray Maps of Metamorphic and Magmatic Minerals. , 1998, , 227-235.		4
31	Low temperature CL investigation of BN1 vibronic structure in c-BN. <i>Diamond and Related Materials</i> , 2006, 15, 1166-1168.	3.9	3
32	Yttrium Geothermometry Applied to Garnets from Different Metamorphic Grades Analysed by EPMA and μ -PIXE Techniques. <i>Mikrochimica Acta</i> , 2006, 155, 105-112.	5.0	3
33	Lichens on Wyoming Sandstone. , 2004, , 99-113.		3
34	Multiple Electron Beam Analyses Applied to Eclogite from the Western Alps. <i>Mikrochimica Acta</i> , 2000, 132, 479-487.	5.0	1
35	Improvements in trace element detection in energy dispersive spectrometry using an X-ray filter (FEDS) and applications to petrological problems. <i>Mikrochimica Acta</i> , 2008, 161, 337-342.	5.0	1
36	A provenance study on the lapis lazuli collection from the Regional Museum of Natural Sciences in Turin. <i>Journal of Physics: Conference Series</i> , 2022, 2204, 012092.	0.4	1

#	ARTICLE	IF	CITATIONS
37	Some insight into "bronze quadrigati": a multi-analytical approach. Archaeological and Anthropological Sciences, 2022, 14, .	1.8	1