

Nicola Rotiroti

List of Publications by Year in descending order

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40
papers

581
citations

687363

13
h-index

642732

23
g-index

41
all docs

41
docs citations

41
times ranked

609
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of lead sorption by the natural and Fe(III)-modified zeolite. <i>Applied Surface Science</i> , 2013, 283, 764-774.	6.1	121
2	Elastic behavior and phase stability of pollucite, a potential host for nuclear waste. <i>American Mineralogist</i> , 2009, 94, 1137-1143.	1.9	50
3	Leucite at high pressure: Elastic behavior, phase stability, and petrological implications. <i>American Mineralogist</i> , 2008, 93, 1588-1596.	1.9	35
4	New insights into the crystal structure and crystal chemistry of the zeolite phillipsite. <i>American Mineralogist</i> , 2009, 94, 190-199.	1.9	34
5	Stability at high pressure, elastic behavior and pressure-induced structural evolution of α -Al ₅ BO ₉ , a mullite-type ceramic material. <i>Physics and Chemistry of Minerals</i> , 2010, 37, 227-236.	0.8	34
6	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
7	Structural evolution of a 2M 1 phengite mica up to 11 GPa: an in situ single-crystal X-ray diffraction study. <i>Physics and Chemistry of Minerals</i> , 2010, 37, 581-591.	0.8	23
8	Gramaccioliite-(Y), a new mineral of the crichtonite group from Stura Valley, Piedmont, Italy. <i>European Journal of Mineralogy</i> , 2004, 16, 171-175.	1.3	21
9	Structural evolution of a 3T phengite mica up to 10 GPa: an in-situ single-crystal X-ray diffraction study. <i>Zeitschrift für Kristallographie</i> , 2009, 224, 302-310.	1.1	21
10	High-pressure study of a natural cancrinite. <i>American Mineralogist</i> , 2012, 97, 872-882.	1.9	19
11	Green andradite stones: gemmological and mineralogical characterisation. <i>European Journal of Mineralogy</i> , 2011, 23, 91-100.	1.3	18
12	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
13	A combined synchrotron radiation micro computed tomography and micro X-ray diffraction study on deleterious alkali-silica reaction. <i>Journal of Materials Science</i> , 2015, 50, 7985-7997.	3.7	15
14	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
15	Crystal structure and low-temperature behavior of "disordered" thomsonite. <i>American Mineralogist</i> , 2010, 95, 495-502.	1.9	11
16	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
17	Mechanisms of Zinc Oxide Nanocrystalline Thin Film Formation by Thermal Degradation of Metal-Loaded Hydrogels. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25108-25117.	3.1	11
18	Structure alterations in microporous (Mg,Fe) ₂ Al ₄ Si ₅ O ₁₈ crystals induced by energetic heavy-ion irradiation. <i>Journal of Solid State Chemistry</i> , 2010, 183, 2372-2381.	2.9	10

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19	The high-pressure behavior of orthorhombic amphiboles. <i>American Mineralogist</i> , 2011, 96, 623-630.	1.9	10
20	The crystal structure of molybdomenite, PbSeO ₃ . <i>Neues Jahrbuch für Mineralogie, Monatshefte</i> , 2003, 2003, 145-152.	0.3	9
21	Investigating distribution patterns of airborne magnetic grains trapped in tree barks in Milan, Italy: insights for pollution mitigation strategies. <i>Geophysical Journal International</i> , 2017, 210, 989-1000.	2.4	9
22	New data on Cu-exchanged phillipsite: a multi-methodological study. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 723-733.	0.8	8
23	Local distortion and octahedral tilting in BaCe _x Ti _{1-x} O ₃ perovskite. <i>Journal of Applied Crystallography</i> , 2018, 51, 1283-1294.	4.5	7
24	Perovskite-related Ca(Nb,Ti)O ₃ . <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005, 220, .	0.8	6
25	The Devitrification of Artificial Fibers: A Multimethodic Approach to Quantify the Temperature-Time Onset of Cancerogenic Crystalline Phases. <i>Annals of Occupational Hygiene</i> , 2010, 54, 893-903.	1.9	6
26	The role of local structural distortions in the stabilisation of undoped nanocrystalline tetragonal zirconia. <i>Materials Chemistry and Physics</i> , 2014, 147, 395-402.	4.0	6
27	A multi-methodological study of the (K,Ca)-variety of the zeolite merlinoite. <i>Mineralogical Magazine</i> , 2015, 79, 1755-1767.	1.4	6
28	Structural Study of Nano-Sized Gahnite (ZnAl ₂ O ₄): From the Average to the Local Scale. <i>Nanomaterials</i> , 2020, 10, 824.	4.1	6
29	On the labyrinthine world of arsenites: a single-crystal neutron and X-ray diffraction study of cafarsite. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 819-829.	0.8	4
30	Twinning and structure of Eu _{0.6} Sr _{0.4} MnO ₃ . <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2006, 62, i3-i5.	0.4	3
31	The high-pressure behavior of balliranoite: a cancrinite-group mineral. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2014, 229, .	0.8	3
32	Monoclinic La _{1-x} Ba _x MnO ₃ (x= 0.185) at 160 K. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2005, 61, i83-i85.	0.4	2
33	Structural anomalies at the ferromagnetic transition and precursor effects in the vicinity of the structural phase transition of La _{0.815} Ba _{0.185} MnO ₃ . <i>Physical Review B</i> , 2006, 74, .	3.2	2
34	On the Crystal-Chemistry of Bjarebyite, BaMn ²⁺ ₂ Al ₂ (PO ₄) ₃ (OH) ₃ , From the Palermo #1 Pegmatite, Grafton County, New Hampshire, Usa. <i>Canadian Mineralogist</i> , 2016, 54, 1033-1041.	1.0	2
35	Crystal chemistry and miscibility of chernovite-(Y), xenotime-(Y), gasparite-(Ce) and monazite-(Ce) from Mt. Cervandone, Western Alps, Italy. <i>Mineralogical Magazine</i> , 0, , 1-18.	1.4	1
36	A Multi-Methodological Investigation of Natural and Synthetic Red Beryl Gemstones. <i>Minerals (Basel)</i> , 2020, 10, 280.	2.8	1

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37	Monoclinic $\text{La}_{1-x}\text{Ba}_x\text{MnO}_3$ ($x = 0.185$) at 160 K.. ChemInform, 2005, 36, no.	0.0	0
38	The spessartine–almandine garnet from Val Codera pegmatite, Central Alps, Italy: a new insight on the crystallochemistry and a 3D image analysis of its inclusions. Rendiconti Lincei, 2018, 29, 699-707.	2.2	0
39	H-bonding in lazulite: a single-crystal neutron diffraction study at 298 and 3 ÅK. Physics and Chemistry of Minerals, 2019, 46, 449-458.	0.8	0
40	Wardite ($\text{NaAl}_3(\text{PO}_4)_2(\text{OH})_4 \cdot 2\text{H}_2\text{O}$) at High Pressure: Compressional Behavior and Structure Evolution. Minerals (Basel, Switzerland), 2020, 10, 877.	2.0	0