

# Annibale Mottana

## List of Publications by Year in descending order

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73  
papers

884  
citations

471509

17  
h-index

552781

26  
g-index

76  
all docs

76  
docs citations

76  
times ranked

882  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of aluminum on Ti-coordination in silicate glasses: A XANES study. <i>American Mineralogist</i> , 2000, 85, 108-117.	1.9	56
2	Reduction and Sorption of Chromium by Fe(II)-Bearing Phyllosilicates: Chemical Treatments and X-Ray Absorption Spectroscopy (XAS) Studies. <i>Clays and Clay Minerals</i> , 2000, 48, 272-281.	1.3	54
3	Octahedral versus tetrahedral coordination of Al in synthetic micas determined by XANES. <i>American Mineralogist</i> , 1997, 82, 497-502.	1.9	35
4	Chromium-containing muscovite: crystal chemistry and XANES spectroscopy. <i>European Journal of Mineralogy</i> , 2001, 13, 377-389.	1.3	35
5	Crystal chemistry of kimzeyite from Anguillara, Mts. Sabatini, Italy. <i>European Journal of Mineralogy</i> , 2001, 13, 749-759.	1.3	33
6	Monazite-huttonite solid-solutions from the Vico Volcanic Complex, Latium, Italy. <i>Mineralogical Magazine</i> , 1996, 60, 751-758.	1.4	32
7	Crystal-chemical evaluation of garnet and omphacite microprobe analyses: Its bearing on the classification of eclogites. <i>Lithos</i> , 1986, 19, 171-186.	1.4	31
8	Pre-alpine and alpine evolution of the South-alpine basement of the Orobic Alps. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1985, 74, 353-366.	1.3	30
9	Experimental and theoretical XANES and EXAFS study of tetra-ferriphlogopite. <i>European Journal of Mineralogy</i> , 2001, 13, 1099-1108.	1.3	28
10	Crystal chemistry of trioctahedral micas in alkaline and subalkaline volcanic rocks: A case study from Mt. Sassetto (Tolfa district, Latium, central Italy). <i>American Mineralogist</i> , 2007, 92, 468-480.	1.9	28
11	Theoretical analysis of X-ray absorption near-edge structure in forsterite, $Mg_2SiO_4$ -Pbnm, and fayalite, $Fe_2SiO_4$ -Pbnm, at room temperature and extreme conditions. <i>Physics and Chemistry of Minerals</i> , 1996, 23, 193.	0.8	27
12	Effects of higher-coordination shells in garnets detected by x-ray-absorption spectroscopy at the AlKedge. <i>Physical Review B</i> , 1996, 54, 2976-2979.	3.2	27
13	Stoppaniite, $(Fe,Al,Mg)_4(Be_6Si_{12}O_{36}) \cdot (H_2O)_2(Na, \hat{a}-i)$ a new mineral of the beryl group from Latium (Italy). <i>European Journal of Mineralogy</i> , 2000, 12, 121-127.	1.3	26
14	Peprossiite-(Ce), a new mineral from Campagnano (Italy): the first anhydrous rare-earth-element borate. <i>European Journal of Mineralogy</i> , 1993, 5, 53-58.	1.3	23
15	Crystal chemistry of ferroan phlogopites from the Albano maar lake (Colli Albani volcano, central Italy). <i>European Journal of Mineralogy</i> , 2001, 13, 1099-1108.	1.3	22
16	An integrated geochemical and mineralogical approach for the evaluation of arsenic mobility in mining soils. <i>Journal of Soils and Sediments</i> , 2011, 11, 37-52.	3.0	22
17	Local and average Fe distribution in trioctahedral micas: Analysis of Fe K-edge XANES spectra in the phlogopite-annite and phlogopite-tetra-ferriphlogopite joins on the basis of single-crystal XRD refinements. <i>European Journal of Mineralogy</i> , 2002, 14, 1075-1085.	1.3	19
18	Crystal-chemistry of a unique jadeite-rich acmite-poor omphacite from the NybÅ, eclogite pod, SÅrpollen, Nordfjord, Norway. <i>Lithos</i> , 1980, 13, 227-236.	1.4	17

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19	The local structure of Ca-Na pyroxenes. I. XANES study at the Na K-edge. <i>Physics and Chemistry of Minerals</i> , 1997, 24, 500-509.	0.8	17
20	Fantappieite, a new mineral of the cancrinite-sodalite group with a 33-layer stacking sequence: Occurrence and crystal structure. <i>American Mineralogist</i> , 2010, 95, 472-480.	1.9	17
21	Crystal structure and chemical composition of Li-, Fe-, and Mn-rich micas. <i>American Mineralogist</i> , 2007, 92, 1395-1400.	1.9	15
22	Quantitative local structure determination in mica crystals: <i>ab initio</i> simulations of polarization XANES at the potassium K-edge. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 418-426.	2.4	15
23	Rare earth abundances in superferrian eclogites from the Voltri Group (Penninic Belt, Italy). <i>Lithos</i> , 1979, 12, 25-32.	1.4	14
24	The octahedral sheet of metamorphic 2M1-phengites: A combined EMPA and AXANES study. <i>American Mineralogist</i> , 2008, 93, 414-425.	1.9	14
25	FTIR spectroscopy in the OH-stretching region of monoclinic epidotes from Praborna (St. Marcel, Tj ETQq1 1 0.784314 rgBT /Overloc	1.3	14
26	Angular dependence of potassium K-edge XANES spectra of trioctahedral micas: Significance for the determination of the local structure and electronic behavior of the interlayer site. <i>American Mineralogist</i> , 2006, 91, 1150-1162.	1.9	13
27	Asbecasite: crystal structure refinement and crystal chemistry. <i>Mineralogical Magazine</i> , 1993, 57, 315-322.	1.4	13
28	Il libro «Sulle pietre» di Teofrasto Prima traduzione italiana con un vocabolario dei termini mineralogici. <i>Rendiconti Lincei</i> , 1997, 8, 151-234.	2.2	12
29	Crystal chemistry of trioctahedral micas in the top sequences of the Colli Albani volcano, Roman Region, central Italy. <i>Lithos</i> , 2009, 113, 507-520.	1.4	12
30	Interlayer potassium and its neighboring atoms in micas: Crystal-chemical modeling and XANES spectroscopy. <i>American Mineralogist</i> , 2008, 93, 821-830.	1.9	11
31	Next-neighbour interactions with Al in Li <sup>+</sup> - and Rb <sup>+</sup> -exchanged Na <sup>+</sup> -aluminas, detected by synchrotron X-ray absorption spectroscopy. <i>Journal of Applied Crystallography</i> , 2000, 33, 234-242.	4.5	10
32	Fe and Mg local environment in the synthetic enstatite-ferrosilite join: an experimental and theoretical XANES and XRD study. <i>European Journal of Mineralogy</i> , 2002, 14, 429-436.	1.3	10
33	Italian gemology during the Renaissance: A step toward modern mineralogy. , 2006, , 1-21.		10
34	Investigating the colour of spinel: 1. Red gem-quality spinels («œbalas» from Ratnapura (Sri Lanka). <i>Rendiconti Lincei</i> , 2013, 24, 127-140.	2.2	10
35	Petrogenesis of the eclogites from Soazza, Switzerland. <i>Chemical Geology</i> , 1985, 50, 47-63.	3.3	9
36	Spectroscopic evidence for tetrahedrally-coordinated titanium in richteritic amphiboles. <i>Rendiconti Lincei</i> , 1990, 1, 387-392.	2.2	9

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37	Petrology of the amphibolitized eclogites of Gorduno, Lepontine Alps, Switzerland. <i>Chemical Geology</i> , 1985, 50, 65-86.	3.3	8
38	The eclogite-bearing metabasaltic sequence of Isla Margarita, Venezuela: A geochemical study. <i>Chemical Geology</i> , 1985, 50, 351-368.	3.3	8
39	Ranciate from Mazzano Romano (Latium, Italy). <i>Mineralogical Magazine</i> , 1986, 50, 111-118.	1.4	7
40	Characterization of Local Chemistry and Disorder in Synthetic and Natural $\hat{\pm}$ -Al <sub>2</sub> O <sub>3</sub> Materials by X-ray Absorption Near-Edge Structure Spectroscopy. <i>Journal of Applied Crystallography</i> , 1998, 31, 890-898.	4.5	7
41	The interlayer structure of trioctahedral lithian micas: An AXANES spectroscopy study at the potassium K-edge. <i>American Mineralogist</i> , 2010, 95, 1084-1094.	1.9	7
42	New rare earth minerals in the sanidinitic ejecta within pyroclastic rocks of the roman potassic province. <i>Rendiconti Lincei</i> , 1990, 1, 159-163.	2.2	6
43	Phase relations of aenigmatite minerals in a syenitic ejectum, wonchi volcano, Ethiopia. <i>Mineralogical Magazine</i> , 1991, 55, 529-534.	1.4	5
44	Gigantic individual lava flows in the Andean foothills near Malargüe (Mendoza, Argentina). <i>Rendiconti Lincei</i> , 2005, 16, 127-135.	2.2	5
45	The impact of malignant pleural mesothelioma throughout Italy in the years 1995-2002: a geo-referenced study relating death rate to population distribution. <i>Rendiconti Lincei</i> , 2009, 20, 117-137.	2.2	5
46	Fifty years since the first European synchrotron-radiation-derived XAFS spectrum (Frascati, 1963). <i>Journal of Synchrotron Radiation</i> , 2013, 20, 811-815.	2.4	5
47	Antimonian asbecasite in a syenitic ejectum within the Vico pyroclastic rocks (Roman potassic) <small>Tj ETQq1 1 0.784314 rgBT /Oyerlock 10</small>	2.2	4
48	Determining Fe-Mg Intersite Distribution in natural and heated Orthopyroxenes by Synchrotron X-ray Absorption Spectroscopy. <i>Rendiconti Lincei</i> , 1991, 2, 379-387.	2.2	4
49	Improved X-Ray Powder Diffraction Data for Franckeite. <i>Powder Diffraction</i> , 1992, 7, 112-114.	0.2	4
50	Oggetti e concetti inerenti le Scienze Mineralogiche neLa composizione del mondo con le sue cascioni di Restor d'Arezzo (anno 1282). <i>Rendiconti Lincei</i> , 1999, 10, 133-229.	2.2	4
51	Il pensiero di Teofrasto sui metalli secondo i frammenti delle sue opere e le testimonianze greche, latine, siriane ed arabe. <i>Rendiconti Lincei</i> , 2001, 12, 133-241.	2.2	4
52	Storia Della Mineralogia Antica. I. La Mineralogia A Bisanzio Nel Xi Secolo D.C.: I Poteri Insiti Nelle Pietre Secondo Michele Psello. <i>Rendiconti Lincei</i> , 2005, 16, 227-295.	2.2	4
53	A new occurrence of rare minerals in an ejectum in the pyroclastics of Vico Volcano, Roman Comagmatic Region, Italy. <i>Rendiconti Lincei</i> , 1995, 6, 147-156.	2.2	3
54	Transformation of a superferrian eclogite within serpentinite: A case study from the Voltri Group, Italy. <i>Chemical Geology</i> , 1985, 50, 111-127.	3.3	2

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55	Nicander on stones and inorganic materials. <i>Rendiconti Lincei</i> , 2006, 17, 333-353.	2.2	2
56	1913â€“2013 â€“ The centennial of X-ray absorption spectroscopy (XAS): Evidences about a question still open. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014, 196, 14-19.	1.7	2
57	Levels of water and soil natural pollutions in Italy. <i>Rendiconti Lincei</i> , 2016, 27, 3-6.	2.2	2
58	A calcian member of the ganophyllite group in the manganiferous metacherts of Molinello mine, Liguria, Italy. <i>Rendiconti Lincei</i> , 1990, 1, 313-317.	2.2	1
59	The mineral chemistry of roccamonfina Volcano, Roman Region, Italy. I. Main mineral phases of the mafic (primitive) rocks of the low-K series (lks). <i>Rendiconti Lincei</i> , 1993, 4, 249-267.	2.2	1
60	SingularitÃ cristallochimiche di melaniti italiane messe in evidenza dalla spettroscopia dâ€™assorbimento dei raggi X in luce di sincrotrone alia soglia K dellâ€™alluminio. <i>Rendiconti Lincei</i> , 1996, 7, 251-264.	2.2	1
61	Sanidine holocrystalline ejecta from central sabatini volcanic district, latium (Italy). II. Intergranular ejecta and minerogenetic deductions. <i>Rendiconti Lincei</i> , 1998, 9, 125-137.	2.2	1
62	Sanidine holocrystalline ejecta from central Sabatini Volcanic District, latium (Italy). I. Introduction and isotropic ejecta. <i>Rendiconti Lincei</i> , 1998, 9, 35-50.	2.2	1
63	Experimental and theoretical XANES study of the effects of Feâ€“Mg solid solution in the enstatiteâ€“ferrosilite series. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 966-968.	2.4	1
64	Â«Le Miracolose VirtÃ¹ Delle Pietre Pretiose Per Salute Del Vivere HumanoÂ» di Scipione Vasolo: Un Trattatello Rinascimentale Sulle Gemme Come Mezzi Per Mantenersi in Salute Senza Ricorrere a Medicine. <i>Rendiconti Lincei</i> , 2005, 16, 19-73.	2.2	1
65	Mineral novelties from America during Renaissance: the â€œstonesâ€ in HernÃ¡ndezâ€™ and SahagÃºnâ€™s treatises (1576â€“1577). <i>Rendiconti Lincei</i> , 2012, 23, 165-186.	2.2	1
66	The centennial of X-ray diffraction (1912â€“2012). <i>Rendiconti Lincei</i> , 2013, 24, 1-5.	2.2	1
67	Asbestiform tremolite within the Holocene late pyroclastic deposits of Colli Albani volcano (Latium,) Tj ETQq1 1 0.784314 rgBT /Overl	2.2	1
68	Bernardo Cesi (CÃ¡sius) and his Mineralogia (1636): naming a new science from an indiscriminate piling of mineral accounts. <i>Rendiconti Lincei</i> , 2017, 28, 435-448.	2.2	1
69	Topical Collections on Lincei Prizewinners. <i>Rendiconti Lincei</i> , 2019, 30, 237-238.	2.2	1
70	Eclogites and eclogite-facies rocks. <i>Chemical Geology</i> , 1990, 81, 164-165.	3.3	0
71	The state and the future of the Earth, planetary and environmental sciences, especially in Italy. <i>Rendiconti Lincei</i> , 2008, 19, 57-73.	2.2	0
72	Bernardo Cesi (CÃ¡sius) and his MineralogÃ¡a: an addendum. <i>Rendiconti Lincei</i> , 2018, 29, 877-884.	2.2	0

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73	Title is missing!. European Journal of Mineralogy, 2001, 13, 1007-1007.	1.3	0