

# Paola Comodi

## List of Publications by Year in descending order

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83  
papers

1,875  
citations

201674

27  
h-index

302126

39  
g-index

84  
all docs

84  
docs citations

84  
times ranked

1588  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-pressure behavior of gypsum: A single-crystal X-ray study. <i>American Mineralogist</i> , 2008, 93, 1530-1537.	1.9	81
2	High-pressure structural study of muscovite. <i>Physics and Chemistry of Minerals</i> , 1995, 22, 170.	0.8	73
3	Compressibility and high pressure structure refinement of tremolite, pargasite and glaucophane. <i>European Journal of Mineralogy</i> , 1991, 3, 485-500.	1.3	73
4	Structural and vibrational behaviour of fluorapatite with pressure. Part I: in situ single-crystal X-ray diffraction investigation. <i>Physics and Chemistry of Minerals</i> , 2001, 28, 219-224.	0.8	71
5	Some aspects of the crystal-chemistry of apatites. <i>Mineralogical Magazine</i> , 1993, 57, 709-719.	1.4	63
6	High-pressure behavior of kyanite; decomposition of kyanite into stishovite and corundum. <i>American Mineralogist</i> , 1997, 82, 460-466.	1.9	52
7	High-pressure structural behaviour of heulandite. <i>European Journal of Mineralogy</i> , 2001, 13, 497-505.	1.3	51
8	Structural and vibrational behaviour of fluorapatite with pressure. Part II: in situ micro-Raman spectroscopic investigation. <i>Physics and Chemistry of Minerals</i> , 2001, 28, 225-231.	0.8	50
9	High-pressure behavior of kyanite; compressibility and structural deformations. <i>American Mineralogist</i> , 1997, 82, 452-459.	1.9	48
10	Mineralogical and chemical evolution of ochreous precipitates from the Libiola Fe-Cu-sulfide mine (Eastern Liguria, Italy). <i>Applied Geochemistry</i> , 2012, 27, 577-589.	3.0	47
11	Effects of temperature and pressure on the structure of lawsonite. <i>American Mineralogist</i> , 1996, 81, 833-841.	1.9	46
12	The pressure behavior of clinozoisite and zoisite; an X-ray diffraction study. <i>American Mineralogist</i> , 1997, 82, 61-68.	1.9	46
13	Improved calibration curve for the Sm <sup>2+</sup> :BaFCl pressure sensor. <i>Journal of Applied Crystallography</i> , 1993, 26, 843-845.	4.5	44
14	A multi-method analysis of Si-, S- and REE-rich apatite from a new find of kalsilite-bearing leucitite (Abruzzi, Italy). <i>Mineralogical Magazine</i> , 1999, 63, 661-672.	1.4	43
15	High-pressure structural behaviour of scolecite. <i>European Journal of Mineralogy</i> , 2002, 14, 567-574.	1.3	40
16	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
17	A single-crystal study on the pressure behavior of phlogopite and petrological implications. <i>American Mineralogist</i> , 2004, 89, 647-653.	1.9	39
18	The 10 A phase: Crystal structure from single-crystal X-ray data. <i>American Mineralogist</i> , 2005, 90, 1012-1016.	1.9	37

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19	Crystal chemistry of amphiboles: implications for oxygen fugacity and water activity in lithospheric mantle beneath Victoria Land, Antarctica. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1.	3.1	35
20	Pressure dependence of structural parameters of paragonite. <i>Physics and Chemistry of Minerals</i> , 1997, 24, 274-280.	0.8	33
21	Effects of pressure on the structure of bikitaite. <i>European Journal of Mineralogy</i> , 2003, 15, 247-255.	1.3	33
22	Anomalous elastic behavior and high-pressure structural evolution of zeolite levyne. <i>American Mineralogist</i> , 2005, 90, 645-652.	1.9	33
23	Isothermal equation of state and compressional behavior of tetragonal edingtonite. <i>American Mineralogist</i> , 2004, 89, 633-639.	1.9	30
24	Structural thermal behavior of paragonite and its dehydroxylate: a high-temperature single-crystal study. <i>Physics and Chemistry of Minerals</i> , 2000, 27, 377-385.	0.8	29
25	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
26	"Cs-tetra-ferri-annite; high-pressure and high-temperature behavior of a potential nuclear waste disposal phase. <i>American Mineralogist</i> , 1999, 84, 325-332.	1.9	29
27	Structural effects of pressure on monoclinic chlorite: A single-crystal study. <i>American Mineralogist</i> , 2007, 92, 655-661.	1.9	28
28	The high-pressure behaviour of the 10Å... phase: A spectroscopic and diffractometric study up to 42ÅGPa. <i>Earth and Planetary Science Letters</i> , 2006, 246, 444-457.	4.4	27
29	Chemo-mineralogical evolution and microstructural modifications of a lime treated pyroclastic soil. <i>Engineering Geology</i> , 2018, 245, 333-343.	6.3	27
30	Scapolites: variation of structure with pressure and possible role in the storage of fluids. <i>European Journal of Mineralogy</i> , 1990, 2, 195-202.	1.3	27
31	CO <sub>3</sub> substitution in apatite: further insight from new crystal-chemical data of Kasekere (Uganda) apatite. <i>European Journal of Mineralogy</i> , 2000, 12, 965-974.	1.3	26
32	Thermal behaviour of chlorite: an in situ single-crystal and powder diffraction study. <i>European Journal of Mineralogy</i> , 2009, 21, 581-589.	1.3	23
33	Thermal behaviour of davyne-group minerals. <i>Physics and Chemistry of Minerals</i> , 1995, 22, 367.	0.8	21
34	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
35	Structural effects of pressure on triclinic chlorite: A single-crystal study. <i>American Mineralogist</i> , 2006, 91, 1871-1878.	1.9	21
36	The effect of cation ordering and temperature on the high-pressure behaviour of dolomite. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 783-793.	0.8	21

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37	The high-pressure behavior of bloedite: A synchrotron single-crystal X-ray diffraction study. <i>American Mineralogist</i> , 2014, 99, 511-518.	1.9	20
38	Order–disorder–reorder process in thermally treated dolomite samples: a combined powder and single-crystal X-ray diffraction study. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 319-328.	0.8	19
39	Dehydration of bloedite, Na <sub>2</sub> Mg(SO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> , and leonite, K <sub>2</sub> Mg(SO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> . <i>European Journal of Mineralogy</i> , 2016, 28, 33-42.	1.3	19
40	Potentially Toxic Elements in Ultramafic Soils: A Study from Metamorphic Ophiolites of the Voltri Massif (Western Alps, Italy). <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 502.	2.0	19
41	Magnesiocloritoid: Compressibility and high pressure structure refinement. <i>Physics and Chemistry of Minerals</i> , 1992, 18, 483-490.	0.8	18
42	Ab initio study of the dolomite to dolomite-II high-pressure phase transition. <i>European Journal of Mineralogy</i> , 2017, 29, 227-238.	1.3	18
43	Synthetic hypersilicic Cl-bearing mica in the phlogopite-celadonite join: A multimethodical characterization of the missing link between di- and tri-octahedral micas at high pressures. <i>American Mineralogist</i> , 2008, 93, 1429-1436.	1.9	17
44	IMA Commission on New Minerals, Nomenclature and Classification (CNMNC). <i>Mineralogical Magazine</i> , 2014, 78, 1241-1248.	1.4	17
45	The compression behavior of bloedite at low and high temperature up to ~10 GPa: Implications for the stability of hydrous sulfates on icy planetary bodies. <i>Icarus</i> , 2017, 285, 137-144.	2.5	17
46	The dehydration process of gypsum under high pressure. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 65-71.	0.8	16
47	Water-rock interactions and trace elements distribution in dolomite aquifers: The Sassolungo and Sella systems (Northern Italy). <i>Geochemical Journal</i> , 2014, 48, 231-246.	1.0	16
48	The effect of oxo-component on the high-pressure behavior of amphiboles. <i>American Mineralogist</i> , 2010, 95, 1042-1051.	1.9	15
49	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
50	The Orvieto-Bagnoregio Ignimbrite: pyroxene crystal-chemistry and bulk phase composition of pyroclastic deposits, a tool to identify syn- and post-depositional processes. <i>European Journal of Mineralogy</i> , 2014, 26, 743-756.	1.3	13
51	Structural study of ellenbergerite. Part II: Effects of high pressure. <i>European Journal of Mineralogy</i> , 1993, 5, 831-838.	1.3	13
52	Comparative compressibility of clinopyroxenes from mantle nodules. <i>European Journal of Mineralogy</i> , 1995, 7, 141-150.	1.3	13
53	THE CONTRASTING RESPONSES OF MUSCOVITE AND PARAGONITE TO INCREASING PRESSURE: PETROLOGICAL IMPLICATIONS. <i>Canadian Mineralogist</i> , 2000, 38, 707-712.	1.0	12
54	The crystal structure of gypsum-II determined by single-crystal synchrotron X-ray diffraction data. <i>American Mineralogist</i> , 2010, 95, 655-658.	1.9	12

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55	Ab initio study of cation disorder in dolomite. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2012, 38, 177-184.	1.6	12
56	Cold groundwater temperatures and conductive heat flow in the Mt. Amiata geothermal area, Tuscany, Italy. <i>Geothermics</i> , 1988, 17, 645-656.	3.4	11
57	Raman spectroscopy of the 10-A phase at simultaneously HP-HT. <i>European Journal of Mineralogy</i> , 2007, 19, 623-629.	1.3	11
58	Reflectance Spectroscopy of Ammonium Salts: Implications for Planetary Surface Composition. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 902.	2.0	11
59	Ammonia and boric acid in steam and water. Experimental data from geothermal wells in the phlegrean fields, Naples, Italy. <i>Geothermics</i> , 1988, 17, 711-718.	3.4	10
60	Pyroxmangite: A high-pressure single-crystal study. <i>American Mineralogist</i> , 2008, 93, 1921-1928.	1.9	8
61	Reflectance spectra (1â€“5Âµm) at low temperatures and different grain sizes of ammonium-bearing minerals relevant for icy bodies. <i>Icarus</i> , 2022, 382, 115055.	2.5	8
62	Behavior of 10-Å... phase at low temperatures. <i>Physics and Chemistry of Minerals</i> , 2007, 34, 23-29.	0.8	7
63	The high-pressure-high-temperature behavior of bassanite. <i>American Mineralogist</i> , 2009, 94, 1596-1602.	1.9	7
64	Isothermal compression of staurolite: A single-crystal study. <i>American Mineralogist</i> , 2002, 87, 1164-1171.	1.9	6
65	Pressure-induced phase transition in synthetic trioctahedral Rb-mica. <i>Physics and Chemistry of Minerals</i> , 2003, 30, 198-205.	0.8	6
66	The Devitrification of Artificial Fibers: A Multimethodic Approach to Quantify the Temperatureâ€“Time Onset of Cancerogenic Crystalline Phases. <i>Annals of Occupational Hygiene</i> , 2010, 54, 893-903.	1.9	6
67	Oxo-amphiboles in mantle xenoliths: evidence for H <sub>2</sub> O-rich melt interacting with the lithospheric mantle of Harrow Peaks (Northern Victoria Land, Antarctica). <i>Mineralogy and Petrology</i> , 2015, 109, 741-759.	1.1	6
68	A high-pressure phase transition in chalcocite, Cu <sub>2</sub> S. <i>European Journal of Mineralogy</i> , 2018, 30, 491-505.	1.3	6
69	SLATY CLEAVAGE: DOES THE CRYSTAL CHEMISTRY OF LAYER SILICATES PLAY A ROLE IN ITS DEVELOPMENT?. <i>Canadian Mineralogist</i> , 2005, 43, 311-325.	1.0	5
70	Emissivity and reflectance spectra at different temperatures of hydrated and anhydrous sulphates: A contribution to investigate the composition and dynamic of icy planetary bodies. <i>Icarus</i> , 2021, 355, 114132.	2.5	5
71	Use of the Methylene Blue Stain Test to Evaluate the Efficiency of Lime Treatment on Selected Clayey Soils. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012, 138, 1147-1150.	3.0	4
72	The High Pressure Behavior of Galenobismutite, PbBi <sub>2</sub> S <sub>4</sub> : A Synchrotron Single Crystal X-ray Diffraction Study. <i>Crystals</i> , 2019, 9, 210.	2.2	4

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73	Insights into the provenance of Roman moulds and pendants found at Scoppieto (Terni, Italy). <i>Archaeometry</i> , 2014, 56, 58-77.	1.3	3
74	High-pressure single-crystal synchrotron X-ray diffraction of kainite (KMg(SO <sub>4</sub> ) Cl 3H <sub>2</sub> O). <i>Physics and Chemistry of Minerals</i> , 2018, 45, 727-743.	0.8	3
75	NIR-MID Reflectance and Emissivity Study at Different Temperatures of Sodium Carbonate Minerals: Spectra Characterization and Implication for Remote Sensing Identification. <i>Minerals (Basel)</i> 11(10):1428. doi:10.3390/min11101428	0.784314	0
76	Mass balance vs Rietveld refinement to determine the modal composition of ultramafic rocks: The case study of mantle peridotites from Northern Victoria Land (Antarctica). <i>Tectonophysics</i> , 2015, 650, 144-155.	2.2	2
77	Ferri-kaersutite, NaCa <sub>2</sub> (Mg <sub>3</sub> TiFe <sup>3+</sup> )(Si <sub>6</sub> Al <sub>2</sub> )O <sub>22</sub> O <sub>2</sub> , a new oxo-amphibole from Harrow Peaks, Northern Victoria Land, Antarctica. <i>American Mineralogist</i> , 2016, 101, 461-468.	1.9	2
78	3D electron diffraction study of terrestrial iron oxide alteration in the Mineo pallasite. <i>Mineralogical Magazine</i> , 2022, 86, 272-281.	1.4	2
79	Effect of the Nano-Ca(OH) <sub>2</sub> Addition on the Portland Clinker Cooking Efficiency. <i>Materials</i> , 2019, 12, 1787.	2.9	1
80	Multi-Scale Mineralo-Chemical Analysis of Biomass Ashes: A Key to Evaluating Their Dangers vs. Benefits. <i>Sustainability</i> , 2021, 13, 6052.	3.2	1
81	The Achievements of the RockStar Group (Perugia) on Astrophysical Modelling and Pallasite Geochemistry. <i>Universe</i> , 2022, 8, 156.	2.5	1
82	Equation of state of Fe <sup>3+</sup> -bearing phase-X. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 553-559.	0.8	0
83	High Pressure Behavior of Mascagnite from Single Crystal Synchrotron X-ray Diffraction Data. <i>Crystals</i> , 2021, 11, 976.	2.2	0