

Pubblicazioni COMODI

- 1) S. Gentili, P. Comodi, C. Bonadiman, M. Coltorti(2015) Mass Balance Vs Rietveld refinement to determine the modal composition of ultramafic rocks: The case study of mantle peridotites from Northern Victoria Land (Antarctica) in press su *Tectonophysics*
- 2) Gentili, S., Biagioni, C., Comodi, P., Pasero, M., McCammon, C. and Bonadiman, C. (2014) Ferri-kaersutite, IMA 2014-051. CNMNC Newsletter No. 22, October 2014, page 1245; *Mineralogical Magazine*, 78, 12411248.
- 3) S. Gentili, P. Comodi, S. Nazzareni, A. Zucchini (2014). Bulk mineralogical composition of pyroclastic deposits and crystal-chemistry of pyroxenes from Orvieto-Bagnoregio Ignimbrite: a tool to identify sin and post depositional processes.. *EUROPEAN JOURNAL OF MINERALOGY*, ISSN: 0935-1221
- 4) C. Bonadiman, S. Nazzareni, M. Coltorti, P. Comodi, G. Giuli, B. Faccini (2014). Crystal chemistry of amphiboles: implications for oxygen fugacity and water activity in lithospheric mantle beneath Victoria Land, Antarctica. *CONTRIBUTIONS TO MINERALOGY AND PETROLOGY*, vol. 167, p. 1-17, ISSN: 0010-7999, doi: 10.1007/s00410-014-0984-8
- 5) P. Comodi, A. Buccianti, A. Zucchini, M. Merletti, M. Bergamini, S. Nazzareni (2014). Insights into the provenance of Roman moulds and poinçons found at Scoppieto (Terni, Italy). *ARCHAEOOMETRY*, vol. 56, p. 58-77, ISSN: 0003-813X, doi: 10.1111/arcm.12068
- 6) Zucchini A., Comodi P., Nazzareni S., Hanfland M. (2014). The effect of cation ordering and temperature on the high-pressure behaviour of dolomite. *PHYSICS AND CHEMISTRY OF MINERALS*, vol. 41, p. 783-793, ISSN: 0342-1791, doi: 10.1007/s00269-014-0691-z
- 7) P. Comodi, S. Nazzareni, T. Balic-Zunic, A. Zucchini, M. Hanfland (2014). The high-pressure behavior of bloedite: A synchrotron single-crystal X-ray diffraction study. *AMERICAN MINERALOGIST*, vol. 99, p. 511-518, ISSN: 0003-004X, doi: 10.2138/am.2014.4640
- 8) Frondini F., Zucchini A., Comodi P. (2014). Water-rock interactions and trace elements distribution in dolomite aquifers: The Sassolungo and Sella systems (northern Italy). *GEOCHEMICAL JOURNAL*, vol. 48, p. 231-246, ISSN: 0016-7002, doi: 10.2343/geochemj.2.0301

- 9) Zucchini, M. Prencipe, P. Comodi., F. Frondini (2012). Ab-initio study of cation disorder in dolomite. CALPHAD, vol. 38, p. 177-184, ISSN: 0364-5916
- 10) S. Nazzareni, P. Comodi, L. Bindi, G. Garbarino, A. Bobrov (2012). Equation of state of Fe³⁺-bearing phase-X . PHYSICS AND CHEMISTRY OF MINERALS, vol. 39 / 2012, p. 553-559, ISSN: 0342-1791, doi: 10.1007/s00269-012-0511-2
- 11) Marescotti P., Carbone C., Comodi P., Frondini F., Lucchetti G. (2012). Mineralogical and chemical evolution of ochreous precipitates from the Libiola Fe-Cu-sulfide mine (Eastern Liguria, Italy). APPLIED GEOCHEMISTRY, vol. 27, p. 577-589, ISSN: 0883-2927
- 12) Zucchini A, Comodi P, Katerinopoulou A, Balic-Zunic T, McCammon C, Frondini F (2012). Order-disorder-reorder process in thermally treated dolomite samples: a combined powder and single-crystal X-ray diffraction study. PHYSICS AND CHEMISTRY OF MINERALS, vol. 39, p. 319-328, ISSN: 0342-1791, doi: 10.1007/s00269-012-0489-9
- 13)P. Comodi, A. Kurnosov, S. Nazzareni, L. Dubrovinsky (2012). The dehydration process of gypsum under high pressure. PHYSICS AND CHEMISTRY OF MINERALS, vol. 39, p. 65-71, ISSN: 0342-1791, d
doi: 10.1007/s00269-011-0460-1
- 14)Cambi C., Carrisi S., Comodi P. (2012). Use of the Methylene blue stain test to evaluate the efficiency of lime treatment on selected clayey soils.. JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol. 138, p. 1147-1150, ISSN: 1090-0241, doi: 10.1061/(ASCE)GT.1943-5606.0000687
- 15)P. Comodi (2011). Devitrification of Artificial Fibres Reply. ANNALS OF OCCUPATIONAL HYGIENE, vol. 55, p. 825-826, ISSN: 0003-4878, doi: 10.1093/annhyg/mer064
- 16)Comodi P., Cera F., Gatta G.D., Rotiroti N., Garofani P. (2011). The Devitrification of Artificial Fibers: a Multimethodic Approach to Quantify the Temperature-Time Onset of Cancerogenic Crystalline Phases. ANNALS OF OCCUPATIONAL HYGIENE, vol. 55, p. 893-903, ISSN: 0003-4878, doi: 10.1093/annhyg/mer058
- 17)P. Comodi, Nazzareni S., P. Fumagalli, G.C. Capitani (2011). The peculiar crystal-chemistry of phlogopite from metasomatized peridotites: evidence from laboratory and nature . PERIODICO DI MINERALOGIA, vol. 80, p. 181-197, ISSN: 0369-8963

- 18)Nazzareni S., Comodi P., Bindi L., Dubrovinsky L. (2010). The crystal structure of gypsum-II determined by single-crystal synchrotron X-ray diffraction data. AMERICAN MINERALOGIST, vol. 95, p. 655-659, ISSN: 0003-004X
- 19)Comodi P., Cera F., Gatta G.D., Rotiroti N., Garofani P. (2010). The devetrification of Artificial fibers: A multimethodic approach to quantify the temperature-time onset of cancerogenic crystalline phases. ANNALS OF OCCUPATIONAL HYGIENE, vol. 54, p. 893-903, ISSN: 0003-4878
- 20)Comodi P., Boffa Ballaran T., Zanazzi P.F., Capalbo C., Zanetti A., Nazzareni S. (2010). The effect of oxo-component on the high-pressure behavior of amphiboles. AMERICAN MINERALOGIST, vol. 95, p. 1042-1051, ISSN: 0003-004X
- 21)Comodi P., Nestola F., Ross A. (2009). Preface: HP-HT mineral physics, implications for Geosciences. EUROPEAN JOURNAL OF MINERALOGY, vol. 21, p. 523-524, ISSN: 0935-1221
- 22)Comodi P., Nazzareni S., Dubrovinsky L., Merlini M. (2009). The high pressure-high temperature behavior of bassanite. AMERICAN MINERALOGIST, vol. 94, p. 1596-1602, ISSN: 0003-004X
- 23)P. ZANAZZI, COMODI P, NAZZARENI S, ANDREOZZI G.B (2009). Thermal behavior of chlorite: an in situ single-crystal and powder diffraction study. EUROPEAN JOURNAL OF MINERALOGY, vol. 21, p. 581-589, ISSN: 0935-1221
- 24)Comodi P., Nazzareni S., Zanazzi P.F., Speziale S. (2008). High pressure behaviour of gypsum: a single crystal X-ray study. AMERICAN MINERALOGIST, vol. 93, p. 1530-1537, ISSN: 0003-004X
- 25)Zanazzi P.F., Nestola F., Nazzareni S., Comodi P. (2008). Pyroxmangite: a high-pressure single-crystal study . AMERICAN MINERALOGIST, vol. 93, p. 1921-1928, ISSN: 0003-004X
- 26)Nazzareni S., Comodi P., Bindi L., Safonov O., Perchuck L., Litvin Y. (2008). Synthetic hypersilicic Cl-rich mica in the phlogopite-celadonite join: A multi-methodic characterization of the missing link between di- and tri-octahedral micas at high pressures. AMERICAN MINERALOGIST, vol. 93, p. 1429-1436, ISSN: 0003-004X

27) Zanazzi P.F., Comodi P., Nazzareni S., Rotiroti N., Van Smaalen S. (2007). Behavior of 10-A phase at low temperatures . PHYSICS AND CHEMISTRY OF MINERALS, vol. 34, p. 23-29, ISSN: 0342-1791

28) Comodi P., Cera F., Nazzareni S., Dubrovinsky L. (2007). Raman spectroscopy of 10 A phase at simultaneously HP-HT . EUROPEAN JOURNAL OF MINERALOGY, vol. 19, p. 623-629, ISSN: 0935-1221

29) Zanazzi P.F., Montagnoli M., Nazzareni S., Comodi P. (2007). Structural effects of pressure on monoclinic chlorite: a single-crystal study. AMERICAN MINERALOGIST, vol. 92, p. 655-661, ISSN: 0003-004X

30) Zanazzi P.F., Montagnoli M., Nazzareni S., Comodi P. (2006). Structural effects of pressure on triclinic chlorite: a single-crystal study. AMERICAN MINERALOGIST, vol. 91, p. 1871-1878, ISSN: 0003-004X

31) Comodi P., Nazzareni S., Perugini D., Bergamini M. (2006). Technology and Provenance of Roman Ceramics from Scoppieto, Italy: a Mineralogical and Petrological Study . PERIODICO DI MINERALOGIA, vol. 75, p. 95-112, ISSN: 0369-8963

32) Comodi P., Cera F., Dubrovinsky L., Nazzareni S. (2006). The high pressure behaviour of the 10 A phase: a spectroscopic and diffractometric study up to 42 GPa . EARTH AND PLANETARY SCIENCE LETTERS, vol. 246, p. 444-457, ISSN: 0012-821X

33) Gatta G.D., Comodi P., Zanazzi P.F., Boffa Ballaran T. (2005). Anomalous elastic behavior and high-pressure structural evolution of zeolite levyne . AMERICAN MINERALOGIST, vol. 90, p. 645-652, ISSN: 0003-004X

34) Guidotti C.V., Sassi F.P., Comodi P., Zanazzi P.F., Blencoe J.G. (2005). Slaty cleavage: does the crystal chemistry of layer silicates play a role in its development? . CANADIAN MINERALOGIST, vol. 43, p. 311-325, ISSN: 0008-4476

35) Comodi P., Fumagalli P., Nazzareni S., Zanazzi P.F. (2005). The 10 A phase: Crystal structure from single-crystal X-ray data . AMERICAN MINERALOGIST, vol. 90, p. 1012-1016, ISSN: 0003-004X, doi: 10.2138/am.2005.1831

36) Comodi P., Fumagalli P., Montagnoli M., Zanazzi P.F. (2004). A single-crystal study on the pressure behavior of phlogopite and

petrological implications . AMERICAN MINERALOGIST, vol. 89, p. 647-653, ISSN: 0003-004X

37)Gatta G.D., Boffa Ballaran T., Comodi P., Zanazzi P.F. (2004). Comparative compressibility and equation of state of orthorhombic and tetragonal edingtonite. PHYSICS AND CHEMISTRY OF MINERALS, vol. 31, p. 288-298, ISSN: 0342-1791

38)Gatta G.D., Boffa Ballaran T., Comodi P., Zanazzi P.F. (2004). Isothermal equation of state and compressional behavior of tetragonal edingtonite . AMERICAN MINERALOGIST, vol. 89, p. 633-639, ISSN: 0003-004X

39)Comodi P., Bernardi M., Bentivoglio A., Gatta G.D., Zanazzi P.F. (2004). Production and technology of glazed ceramics from the Middle Ages found in the Saepinum territorium (Italy): a multimethodic approach. . ARCHAEOOMETRY, vol. 46, p. 405-419, ISSN: 0003-813X

40)Comodi P., Gatta G.D., Zanazzi P.F. (2003). Effects of pressure on the structure of bikitaite. . EUROPEAN JOURNAL OF MINERALOGY, vol. 15, p. 247-255, ISSN: 0935-1221

41)Gatta G.D., Comodi P., Zanazzi P.F. (2003). New insights on high-pressure behaviour of microporous materials from X-ray single-crystal data. MICROPOROUS AND MESOPOROUS MATERIALS, vol. 61, p. 105-115, ISSN: 1387-1811

42)Comodi P., Drabek M., Montagnoli M., Rieder M., Weiss Z., Zanazzi P.F. (2003). Pressure-induced phase transition in synthetic trioctahedral Rb-mica . PHYSICS AND CHEMISTRY OF MINERALS, vol. 30, p. 198-205, ISSN: 0342-1791

43)Comodi P., Gatta G.D., Zanazzi P.F. (2002). High-pressure structural behaviour of scolecite. EUROPEAN JOURNAL OF MINERALOGY, vol. 14, p. 567-574, ISSN: 0935-1221

44)Comodi P., Montagnoli M., Zanazzi P.F., Boffa Ballaran T. (2002). Isothermal compression of staurolite: a single crystal study . AMERICAN MINERALOGIST, vol. 87, p. 1164-1171, ISSN: 0003-004X

45)Comodi P., Gatta G.D., Zanazzi P.F., Levy D., Crichton W. (2002). Thermal equations of state of dioctahedral micas on the join muscovite-paragonite . PHYSICS AND CHEMISTRY OF MINERALS, vol. 29, p. 538-544, ISSN: 0342-1791

- 46) Bernardi M., Comodi P. (2001). Ceramica a vetrina sparsa in Umbria. I materiali dello scavo di Urvinum Hortense (PG): studio archeologico-archeometrico.. ARCHEOLOGIA MEDIEVALE, vol. XXIX, p. 225-239, ISSN: 0390-0592
- 47) Comodi P., Gatta G.D., Zanazzi P.F. (2001). High-pressure structural behaviour of heulandite . EUROPEAN JOURNAL OF MINERALOGY, vol. 13, p. 497-505, ISSN: 0935-122
- 48) Comodi P., Liu Y., Frezzotti M.L. (2001). Structural and vibrational behavior of fluorapatite with pressure. Part II: in situ microraman spectroscopic investigation . PHYSICS AND CHEMISTRY OF MINERALS, vol. 28, p. 225-231, ISSN: 0342-1791
- 49) Comodi P., Liu Y., Zanazzi P.F., Montagnoli M. (2001). Structural and vibrational behaviour of fluorapatite with pressure. Part I: in situ single crystal X-ray diffraction investigation . PHYSICS AND CHEMISTRY OF MINERALS, vol. 28, p. 219-224, ISSN: 0342-1791
- 50) Comodi P., Liu Y. (2000). CO₃ substitution in apatite: further insight from new crystal-chemical data of Kasekere (Uganda) apatite. . EUROPEAN JOURNAL OF MINERALOGY, vol. 12, p. 965-974, ISSN: 0935-1221
- 51) Comodi P., Zanazzi P.F. (2000). Structural thermal behaviour of paragonite and its dehydroxylate: a high temperature single-crystal study. PHYSICS AND CHEMISTRY OF MINERALS, vol. 27, p. 377-385, ISSN: 0342-1791
- 52) Guidotti C.V., Sassi F.P., Comodi P., Zanazzi P.F., Blencoe J.G. (2000). The contrasting responses of muscovite and paragonite to increasing pressure: petrologic implications". CANADIAN MINERALOGIST, vol. 38, p. 707-710, ISSN: 0008-4476
- 53) P. COMODI, LIU Y., STOPPA F., WOOLEY A. (1999). A multi-method analysis of Si-, S- and REE-rich apatite from a new find of kalsilite-bearing foidite (Abruzzi, Italy). MINERALOGICAL MAGAZINE, vol. 63(5), p. 661-672, ISSN: 0026-461X
- 54) Comodi P., Zanazzi P.F., Weiss Z., Rieder M., Drabek M. (1999). Cs-ferriannite: high-pressure and high-temperature behavior of a potential nuclear waste disposal phase . AMERICAN MINERALOGIST, vol. 84, p. 325-332, ISSN: 0003-004X

- 55) LIU Y., P. COMODI, SASSI P. (1998). Vibrational spectroscopic investigation of phosphate tetrahedron in fluor-hydroxy-and chlorapatites . NEUES JAHRBUCH FUR MINERALOGIE-ABHANDLUNGEN, vol. 174 (2), p. 211-222, ISSN: 0077-7757
- 56) P. COMODI, ZANAZZI P. F., POLI S., SCHMIDT M. (1997). High pressure behaviour of kyanite: compressibility and structural deformations . AMERICAN MINERALOGIST, vol. 82, p. 452-460, ISSN: 0003-004X
- 57) P. COMODI, ZANAZZI P.F. (1997). The pressure dependence of structural parameters of paragonite. PHYSICS AND CHEMISTRY OF MINERALS, vol. 24, p. 274-280, ISSN: 0342-1791
- 58) COMODI P., P.F. ZANAZZI (1996). Effects of temperature and pressure on the structure of lawsonite . AMERICAN MINERALOGIST, vol. 81, p. 833-841, ISSN: 0003-004X
- 59) P. COMODI, ZANAZZI P.F. (1996). The pressure behaviour of clinzozoisite and zoisite: an X-ray diffraction study. AMERICAN MINERALOGIST, vol. 82, p. 61-68, ISSN: 0003-004X
- 60) P. COMODI, PRINCIVALLE F., TIRONE M., ZANAZZI P.F. (1995). Comparative compressibility of clinopyroxenes from mantle nodules. EUROPEAN JOURNAL OF MINERALOGY, vol. 7, p. 141-149, ISSN: 0935-1221
- 61) P. COMODI, ZANAZZI P.F. (1995). High pressure structural study of muscovite. PHYSICS AND CHEMISTRY OF MINERALS, vol. 22, p. 170-177, ISSN: 0342-1791
- 62) BONACCORSI E., P. COMODI, MERLINO S. (1995). Thermal behaviour of davyne-group mineral.. PHYSICS AND CHEMISTRY OF MINERALS, vol. 22, p. 367-374, ISSN: 0342-1791
- 63) P. COMODI, ZANAZZI P.F. (1993). Improved calibration curve for Sm²⁺:BaFCI pressure sensor. JOURNAL OF APPLIED CRYSTALLOGRAPHY, vol. 26, p. 843-845, ISSN: 0021-8898
- 64) LIU Y., P. COMODI (1993). Some aspects of the crystal-chemistry of apatites. MINERALOGICAL MAGAZINE, vol. 57, p. 709-719, ISSN: 0026-461X

65)P. COMODI, ZANAZZI P.F. (1993). Structural study of ellenbergerite. Part I: effects of high temperature. EUROPEAN JOURNAL OF MINERALOGY, vol. 5, p. 819-829, ISSN: 0935-1221

66)P. COMODI, ZANAZZI P.F. (1993). Structural study of ellenbergerite. Part II: Effects of high pressure. EUROPEAN JOURNAL OF MINERALOGY, vol. 5, p. 831-838, ISSN: 0935-1221

67)P. COMODI, MELLINI M, ZANAZZI P.F. (1992). Magnesiochloritoid: compressibility and high pressure structure refinement.. PHYSICS AND CHEMISTRY OF MINERALS, vol. 18, p. 483-490, ISSN: 0342-1791

68)P. COMODI, MELLINI M., UNGARETTI L., ZANAZZI P.F. (1991). Compressibility and high pressure structure refinement of tremolite, pargasite and glaucophane. EUROPEAN JOURNAL OF MINERALOGY, vol. 3, p. 485-499, ISSN: 0935-1221

69)P. COMODI, MELLINI M., ZANAZZI P.F. (1990). Scapolites: variation of structure with pressure and possible role in the storage of fluids.. EUROPEAN JOURNAL OF MINERALOGY, vol. 2, p. 195-202, ISSN: 0935-1221

70)CHIODINI G., P. COMODI, GIAQUINTO S. (1988). Ammonia and boric acid in steam and water. Experimental data from geothermal wells in the Phlegrean fields, Naples, Italy. GEOTHERMICS, vol. 17, 5/6, p. 711-718, ISSN: 0375-6505

71)CHIODINI G., P. COMODI, GIAQUINTO S., MATTIOLI B., ZANAZARI A.R. (1988). Cold groundwater temperatures and conductive heat flow in the Mt. Amiata geothermal area, Tuscany, Italy . GEOTHERMICS, vol. 17 (4), p. 645-656, ISSN: 0375-6505

