

### MARIA FRANCA BRIGATTI: Pubblicazioni

- (1) Brigatti, M.F., Gottardi, G. (1971) Le zeoliti nelle porfiriti dell'Alta Valle del Cordevole (Belluno). *Period. Mineral.*, **40**, 27.
- (2) Brigatti, M.F., Detomaso, G., Perna, G., Poppi, L. (1974) Le sorgenti minerali di Levico-Vetriolo e Roncegno. *Econ. Trent.*, 1974, **4**, 33-55.
- (3) Alietti, A., Brigatti, M.F., Poppi, L. (1975) Il comportamento termodifferenziale e termoponderale dei minerali del gruppo dell'heulandite. *Rend. Soc. It. Miner. Petrol.*, **31**, 613-630.
- (4) Arias, C., Bigazzi, G., Bonadonna, F.P., Morlotti, E., Radicati di Brozolo, F., Rio, D, Torelli, L., Brigatti, M.F., Giuliani, O., Tirelli, G. (1976) Chronostratigraphy of the Izarorene section in the Melilla Basin (Northeastern Morocco). *Boll. Soc. Geol. It.*, **95**, 1681-1694.
- (5) Brigatti, M.F., Poppi, L. (1976) Studio cristallografico e comportamento termico di solfati naturali eptaidrati: I - Indagine su alcuni termini della serie della melanterite. *Miner. Petrogr. Acta*, **21**, 157-164.
- (6) Poppi, L., Brigatti, M.F. (1976) Cristallografica e caratteristiche termiche di alcune montmorilloniti italiane. *Miner. Petrogr. Acta*, 1976), **21**, 43-52.
- (7) Alietti, A., Brigatti, M.F., Poppi, L. (1977) Natural Ca-rich clinoptilolites (heulandites of group 3): new data and review. *N. Jb. Miner. Mh.*, **1977**, 493-501.
- (8) Alietti, A., Brigatti, M.F., Poppi, L. (1978) Determinazione dell'alluminio amorfo in argille appenniniche. *Miner. Petrogr. Acta*, **22**, 157-164.
- (9) Alietti, A., Brigatti, M.F. (1979) Behavior of natural montmorillonites at suitable water vapor pressure. *Miner. Petrogr. Acta*, **23**, 145-150.
- (10) Alietti, A., Brigatti, M.F., Poppi, L. (1979) An illite/montmorillonite interlayer mineral in porphyritic rock of "Alpe di Siusi" (BZ-Italy): the chemistry of I/M interlayer minerals. *Clay Minerals*, **14**, 39-46.
- (11) Brigatti, M.F., Poppi, L. (1979) Quantitative determination of gypsum in sedimentary rocks by thermal analysis. *Miner. Petrogr. Acta*, **23**, 131-134.
- (12) Brigatti, M.F., Poppi, L. (1979) Studio cristallografico e comportamento termico di solfati naturali eptaidrati: II - Indagine su alcuni termini della serie dell'epsomite. *Miner. Petrogr. Acta*, **23**, 135-143.
- (13) Brigatti, M.F., Rossi, A. (1979) Mineralogical and petrological contribution to the study of the Falconara basin. *Rend. Soc. It. Miner. Petrol.*, **35**, 781-790.
- (14) Colalongo, M.L., Di Grande, A., D'Onofrio, S., Giannelli, L., Iaccarino, S., Mazzei, R., Brigatti, M.F., Romeo, M., Rossi, A., Salvatorini, G. (1979) A proposal for the Tortonian/Messinian boundary., VIIth Int. Congr. on Mediterranean Neogene. (*Ann. Géol. Pays Hellén*, 1979), 285-294.
- (15) Brigatti, M.F., Poppi, L. (1980) Vermiculite and its relation to parent materials as revealed by chemical features. *Miner. Petrogr. Acta*, **24**, 123-134.
- (16) Brigatti, M.F., Poppi, L. (1980) Vari termini di interlaminati I/M nelle argille appenniniche. *Rend. Soc. It. Miner. Petrol.*, **36**, 587-594.
- (17) Brigatti, M.F., Poppi, L. (1981) A mathematical model to distinguish the members of the dioctahedral smectite series. *Clay Minerals*, **16**, 81-89.
- (18) Brigatti, M.F. (1981) Hisingerite: a review of its crystal chemistry. *Int. Clay Conf. 1981*, Van Olphen and Veniale ed., Elsevier, Amsterdam. In *Developments in Sedimentology*, **35**, 97-110.
- (19) Del Pennino, U., Mazzega, E., Valeri, S., Alietti, A., Brigatti, M.F., Poppi, L. (1981) Interlayer water and swelling properties of monoionic montmorillonites. *J. Colloid and Interface Science*, **84**, 301-309.

- (20) Alietti, A., Brigatti, M.F. (1982) Some Grecian montmorillonites and the crystal chemistry of the smectite family. *Miner. Petrogr. Acta*, **26**, 39-47.
- (21) Brigatti, M.F. (1983) Relationships between composition and structure in Fe-rich smectites. *Clay Minerals*, **18**, 177-186.
- (22) Alietti, A., Brigatti, M.F., Poppi, L. (1984) Sepiolite deposits of the El-Bur, Galgudund Area, Central Somalia. *Rend. Soc. It. Miner. Petrol.*, **39**, 163-172.
- (23) Brigatti, M.F., Poppi, L. (1984) "Corrensite-like minerals" in the Taro and Ceno Valleys, Italy. *Clay Minerals*, **19**, 59-66.
- (24) Brigatti, M.F., Poppi, L. (1984) Crystal chemistry of corrensite: a review. *Clays and Clay Minerals*, **32**, 391-399.
- (25) Alberti, A., Brigatti, M.F. (1985) Dependence of chemistry on genesis in zeolites: multivariate analysis of variance and discriminant analysis. *American Mineralogist*, **70**, 805-813.
- (26) Alberti, A., Brigatti, M.F. (1985) Crystalchemical differences in Al-rich smectites as shown by multivariate analysis of variance and discriminant analysis. *Clays and Clay Minerals*, **33**, 546-558.
- (27) Bergaya, F., Brigatti, M.F., M.F., Fripiat, J.J. (1985) Contribution of infrared spectroscopy to the study of corrensite. *Clays and Clay Minerals*, **33**, 458-462.
- (28) Brigatti, M.F., Poppi, L. (1985) Interlayer water and swelling properties of natural and homoionic corrensite. *Clays and Clay Minerals*, **33**, 128-134.
- (29) Brigatti, M.F., Morten, B., Prudenziati, M. (1985) Evolution of the microstructure and performance of Pd/Ag-based thick conductors. *Active and Passive Elec. Comp.*, **12**, 41-57.
- (30) Brigatti, M.F., Poppi, L., Fabbri, A.G. (1986) Corrensites: genetic relationships assessed by multivariate statistical analysis. *Bull. Minéral.*, **109**, 543-553.
- (31) Brigatti, M.F., Gregnanin, A. (1987) Crystal Chemistry of Igneous Rock Biotites. *Mineralogy and Petrology*, **37**, 323-341.
- (32) Brigatti, M.F., Poppi, L. (1987) Weight of Interlayer Cations into Montmorillonite Type Differentiation. *Chem. Erde*, **46**, 25-31.
- (33) Brigatti, M.F., Poppi, L. (1987) Natural and monoionic aliettite: hydration and dehydration states. *Clay Minerals*, **22**, 187-197.
- (34) Brigatti, M.F. (1988) Chemistry and structural order in hydrothermal and sedimentary Sardinia kaolinities. *N. Jb. Miner. Mh.*, **1988**, 21-37.
- (35) Brigatti, M.F., Casari, L. (1988) Chlorites from cobalt pyrite horizons, Upper Martello Valley (Alto Adige, Northern Italy). *N. Jb. Miner. Mh.*, **1988**, 547-558.
- (36) Bigi, S., Brigatti, M.F. (1989) Crystal chemical characterization of biotites and amphiboles from metabasites (Ivrea-Verbanò Zone, Italian Western Alps). *Neues. Jahrbuch Miner. Abh*, **161**, 227-240.
- (37) Lelj, F., Morelli, G., Ricciardi, G., Brigatti, M.F., Rosa, A. (1989) Chemical, spettroscopic and electrical conduction properties of iodinated nickel diimine complexes. *Polyhedron*, **8**, 2603-2610.
- (38) Brigatti, M.F., Davoli, P. (1990) Crystal-structure refinements of 1M plutonic biotites. *American Mineralogist*, **75**, 305-313.
- (39) Bigi, S., Brigatti, M.F., Capedri, S. (1991) Crystal chemistry of Fe- and Cr-rich warwichite. *American Mineralogist*, **76**, 1380-1388.
- (40) Brigatti, M.F., Galli, E., Poppi, L. (1991) Effect of Ti substitution in biotite-1M crystal chemistry. *American Mineralogist*, **76**, 1174-1183.
- (41) Brigatti, M.F., Poppi, L. (1991) Origin of clay minerals in the Bonarelli Horizon (Umbrian Apennines, Central Italy). *Clay Minerals*, **26**, 127-139.

- (42) Ghetti, S., Brigatti, M.F. (1991) Mineralogy of Cretaceous green clay levels (Friuli Platform, Southern Alps, Italy):relationships to the depositional environment, N. Jb. Geol. Paläont. Mh. **1991**, 489-504.
- (43) Battaglia, L.P., Bonamartini Corrado, A., Pelosi, G., Cramarossa, M.R., Manfredini, T., Pellacani, G., Motori, A., Sacconi, A., Sandorlini, F., Brigatti, M.F. (1992) Synthesis and Characterization of Layered Chlorocadmates(II) with Perovskite-like Structures. Chemistry of Materials, **4**, 813-818.
- (44) Bigi, S. Brigatti, M.F. (1992) Biotiti ricche in bario nelle rocce basiche della zona Ivrea-Verbano. Atti Ticinesi di Scienze della Terra, **35**. 107-115.
- (45) Bigi, S., Brigatti, M.F., Mazzucchelli, M., Rivalenti, G. (1993) Crystal chemical variations in Ba-rich biotites from gabbroic rocks of lower crust (Ivrea Zone, NW Italy). Contrib. Mineral. Petrol., **113**, 87-99.
- (46) Brigatti, M.F., Contini, S., Capedri, S., Poppi, L. (1993) Crystal chemistry and cation ordering in pseudobrookite and armalcolite from Spanish lamproites. Eur. J. Mineral., **5**, 73-84.
- (47) Brigatti, M.F., Poppi, L. (1993) Crystal chemistry of Ba-rich trioctahedral micas-1M. Eur. J. Mineral., **5**, 857-871.
- (48) Alietti, E., Brigatti, M.F., Capedri, S., Poppi, L. (1994) The roedderite-chayesite series from Spanish lamproites: crystal-chemical characterization. Mineral. Mag., **58**, 655-662.
- (49) Bigi, S., Brigatti, M.F. (1994) Crystal Chemistry and microstructures of plutonic biotites. American Mineralogist, **79**, 63-72.
- (50) Brigatti, M.F., Corradini, F., Franchini, G., Pacchioni, M.G., Poppi, L. (1994) Interaction of exchanged  $Zn^{2+}$ -montmorillonite with alkaline and earth alkaline cations. Applied Clay Science, **9**, 121-128.
- (51) Alietti, E., Brigatti, M.F., Campana, G., Medici, L., Poppi, L. (1995) Adsorbimento di  $Zn^{2+}$  e  $Pb^{2+}$  da parte della caolinite. Quad. Geologia Applicata, II Vol., 197-203.
- (52) Alietti, E., Brigatti, M.F., Poppi, L. (1995) The crystal structure and chemistry of high-aluminium phlogopite. Mineral. Mag., **59**, 149-157.
- (53) Brigatti, M.F., Campana, G., Medici, L., Poppi, L. (1995) Comportamento di montmorilloniti a diversa carica di strato allo scambio di  $Zn^{2+}$  e  $Pb^{2+}$  presenti in soluzioni acquose. Quad. Geologia Applicata, II Vol., 205-212.
- (54) Brigatti, M.F., Corradini, F., Franchini, G.C., Mazzoni, S., Medici, L., Poppi, L. (1995) Interaction between montmorillonite and pollutants from industrial waste-waters: exchange of  $Zn^{2+}$  and  $Pb^{2+}$  from aqueous solutions. Applied Clay Science, **9**, 383-395.
- (55) Brigatti, M.F., Campana, G., Medici, L., Poppi, L. (1996) The influence of layer-charge on  $Zn^{2+}$  and  $Pb^{2+}$  sorption by smectites. Clay Minerals, **31**, 477-483.
- (56) Brigatti, M.F., Medici, L. (1996) Mineralogia e recupero ambientale: le argille. I Quaderni di "Flaminia", **3**, 29-35.
- (57) Brigatti, M.F., Medici, L., Poppi, L. (1996) Refinement of the structure of natural ferriphlogopite. Clays and Clay Minerals, **44**, 540-545.
- (58) Brigatti, M.F., Medici, L., Poppi, L. (1996) Sepiolite and industrial waste-water purification : removal of  $Zn^{2+}$  and  $Pb^{2+}$  from aqueous solutions. Applied Clay Science, **11**, 43-54.
- (59) Brigatti, M.F., Medici, L., Sacconi, E., Vaccaro, C. (1996)- Crystal chemistry and petrologic significance of  $Fe^{3+}$ - rich phlogopites from the Tapira carbonatite complex, Brazil. American Mineralogist, **81**, 913-927.
- (60) Brigatti, M.F., Valdré, G. (1996) Mixed layer chlorite/smectite (corrensite) in ophiolitic rock alteration products. N.Jb. Miner. Mh., **1996**, 37-47.
- (61) Brigatti, M.F., Frigieri, P., Medici, L., Poppi, L., Roli, S. (1996) Use of sepiolite in zinc polluted industrial waste water purification. Materials Engineering, **7**, 521-533.
- (62) Brigatti, M.F., Galli, E., Medici, L. (1997) Ba-rich celestine:new data and crystal structure refinement. Mineral. Mag., **61**, 447-451.

- (63) Brigatti, M.F., Galli, E., Medici, L., Poppi, L. (1997) Crystal structure refinement of aluminian lizardite-2H<sub>2</sub>. . American Mineralogist, **82**,931-935.
- (64) Alietti, E., Brigatti, M.F., Poppi, L. (1997) Clintonite-1M: Crystal chemistry and its relationships to closely associated Al-rich phlogopite. . American Mineralogist, **82**, 936-945.
- (65) Brigatti, M.F., Medici, L., Poppi, L. (1997) V<sup>3+</sup>, Cr<sup>3+</sup> and Mn<sup>2+</sup> uptake by sepiolite and sedimentary zeolites. Materials Engineering, **8**, 59-70.
- (66) Brigatti, M.F., Franchini, G.C., Frigieri, P., Gardinali, C., Medici, L., Poppi, L. (1998) Treatment of Industrial Wastewater using Zeolite and Sepiolite, Natural Microporous Materials. Canad. J. Chem. Engin., **77**, 163-168.
- (67) Brigatti, M.F., Franchini, G.C., Lugli, C., Pinetti, A., Vaccari, G. (1998) Aminoacids as a factor controlling distribution of heavy metals in soils and groundwater. Annali di Chimica (J. Anal. Environ. Chem.), **88**, 783-792.
- (68) Brigatti, M.F., Franchini, G.C., Medici, L., Poppi, L., Stewart, A. (1998) Behaviour of sepiolite in Co<sup>2+</sup>, Cu<sup>2+</sup> and Cd<sup>2+</sup> removal from a simulated pollutant solution. Annali di Chimica (J. Anal. Environ. Chem.) **88**, 461-470.
- (69) Brigatti, M.F., Frigieri, P., Poppi, L. (1998) Crystal chemistry of Mg-, Fe-bearing muscovites-2M1. American Mineralogist, **83**, 775-785.
- (70) Brigatti, M.F., Lugli, C., Poppi, L., Elburg, M. (1998) Crystal chemistry of biotites from mafic enclaves in the Warburton granodiorite, Lachlan Fold Belt (Australia). Eur. J. Mineral., **10**, 855-864.
- (71) Appel, P.W.U., Bigi, S., Brigatti, M.F. (1999) Crystal structure and chemistry of yuanfuliite and its relationships with warwickite. Eur. J. Mineral., **11**, 483-491.
- (72) Appel, P.W.U., Brigatti, M.F. (1999) Ludwigite from central Sweden: new data and crystal structure refinement. Mineral. Mag., **63**, 511-518.
- (73) Brigatti, M.F., Lalonde, A.E., Medici, L. (1999) Crystal chemistry of <sup>[4]</sup>Fe<sup>3+</sup>-rich phlogopites: a combined single-crystal X-ray and Mössbauer study. Proc. of "The 11<sup>th</sup> International Clay Conference", 317-327.
- (74) Brigatti, M.F., Lugli, C., Montorsi, S., Poppi, L. (1999) Effect of exchange cations and layer charge location on the sorption and retention of cysteine by smectites. Clays and Clay Minerals, **47**, 136-143.
- (75) Brigatti, M.F., Lugli, C., Poppi, L. (1999) Removal and recovery of heavy-metal cations by sepiolite. Proc. of "The 11<sup>th</sup> International Clay Conference", 133-138.
- (76) Brigatti, M.F., Lugli, C., Poppi, L., Venturelli, G. (1999) Iron rich saponite: dissolution reactions and Cr uptake. Clay Minerals, **34**, 530-542.
- (77) Brigatti, M.F., Lugli, C., Medici, L., Poppi, L. (1999) Complessi tra i minerali dei suoli e composti organici come barriere per la migrazione degli inquinanti negli aquiferi. Atti dell'Accademia Nazionale dei Lincei, 151-156.
- (78) Brigatti, M.F., Lugli, C., Poppi, L. (2000) Kinetics of heavy metal removal and recovery in sepiolite. Applied Clay Science, **15**, 412-424.
- (79) Brigatti, M.F., Franchini G., Lugli C., Medici L., Poppi L., Turci E. (2000) Interactions between aqueous chromium solutions and layer silicates. Applied Geochemistry, **15**, 1307-1316.
- (80) Brigatti, M.F., Frigieri P., Ghezzi C., Poppi L. (2000) Crystal chemistry of Al-rich biotites coexisting with muscovites in peraluminous granites. Amer. Mineral, **85**, 436-448.
- (81) Benincasa, E., Brigatti, M.F., Lugli, C., Medici, L., Poppi, L. (2000) Interaction between glycine and Na-, Ca- and Cu-rich smectites. Clay Minerals, **35**, 635-641.
- (82) Brigatti, M.F., Lugli, C., Cibin, G., Mottana, A., Marcelli A., Wu, Z., Giuli, G., Paris E. (2000) Reduction and sorption of chromium by Fe(II)-bearing phyllosilicates: chemical treatments and X-ray absorptin spectroscopy studies. Clays and Clay Minerals, **48**, 272-281.

- (83) Brigatti, M.F., Lugli, C., Poppi, L., Foord, E.E., Kile, D. (2000) Crystal chemical variations in lithium micas from the miarolitic pegmatites of the Pikes Peak batholith, central Colorado. *American Mineralogist*, **85**, 1275-1286.
- (84) Brigatti, M.F., Guggenheim, S. (2000) Mica crystal chemistry and the influence of intensive variables on atomistic models. In *Advances on Micas (Problems, methods, applications in geodynamics)*, CNR & Accademia Nazionale Lincei (Pub.), Roma, 29-80.
- (85) Benincasa, E., Brigatti, M.F., Malferrari D. & Poppi, L. (2000) XAFS study of Cu sorption products on smectites treated with  $\alpha$ -amino acids *Applied Mineralogy: In Research, Economy, Technology, Ecology and Culture*, Vol. 2. D. Rammlmair, J. Mederer, Th. Oberthür, R.B. Heimann & H. Pentinghaus Eds., 723-726.
- (86) Brigatti, M.F. (2000) Analisi termiche. In: *Incontri Scientifici*, S. Fiore Ed. Istituto di Ricerca sulle Argille, Vol II, 163-185.
- (87) Brigatti, M.F., Galli, E., Medici, L., Poppi, L., Cibir, G., Marcelli, A., Mottana, A. (2001) Chromium-containing muscovite: crystal chemistry and XANES spectroscopy. *European Journal of Mineralogy*, **13**, 377-389.
- (88) Giuli, G., Paris, E., Wu, Z.Y., Brigatti, M.F., Cibir, G., Mottana, A., Marcelli, A. (2001) Experimental and theoretical XANES and EXAFS study of tetra-ferriphlogopite. *European Journal of Mineralogy*, **13**, 1099-1108.
- (89) Benincasa, E., Brigatti, M.F., Medici, L., Poppi, L. (2001) K-rich rectorite from kaolinized micaschists of the Sesia-Lanzo Zone, Italy. *Clay Minerals*, **36**, 421-433.
- (90) Brigatti M.F., Kile, D.E., Poppi, M. (2001) Crystal structure and chemistry of lithium-bearing muscovite-2M<sub>1</sub>. *Canadian Mineralogist*, **39**, 1171-1180.
- (91) Brigatti, M.F., Medici, L., Poppi, L., Vaccaro, C. (2001) Crystal chemistry of trioctahedral micas-1M from Alto Paranaíba Igneous Province, Southeastern Brazil. *Canadian Mineralogist*, **39**, 1333-1345.
- (92) Brigatti, M.F., Medici, L., Poppi, L. (2001) Environmental protection and phyllosilicates. *Boletín de la Sociedad Española de Mineralogía*, **24**, 135-156.
- (93) Brigatti, M.F., Malferrari, D., Medici, L., Poppi, L. (2002) Reactions of Zn<sup>2+</sup> aqueous solutions with fluor-hydroxyapatite: crystallographic evidence. *Neues Jahrbuch für Mineralogie Monatshefte*, **2002**, 129-137.
- (94) Benincasa, E., Brigatti, M.F., Franchini, G., Malferrari, D., Medici, L., Poppi, L., Tonelli, M. (2002) Reactions between Cr<sup>6+</sup> solutions and pyrite: chemical and surface studies. *Geologica Carpathica*, **53**, 79-85.
- (95) Benincasa, E., Brigatti, M.F., Malferrari, D., Medici, L., Poppi, L. (2002) Sorption of Cd (II)-cysteine complexes by kaolinite. *Applied Clay Science*, **21**, 191-201.
- (96) Brigatti, M.F., Guggenheim S. (2002) Mica crystal chemistry and the influence of pressure, temperature, and solid solution on atomistic models. In: *Reviews in Mineralogy and Geochemistry*, Mottana, A. Sassi, F., Thompson, J., Guggenheim, S. Eds., **45**, 1-97.
- (97) Brigatti, M.F., Medici, L., Poppi, L. (2002) Effect of ionic solutions on clay minerals crystal chemistry. In: *Chemo-Mechanical Coupling in Clays: From Nano-Scale to Engineering Applications*, Di Maio, C., Hueckel, T., Loret, B. Eds. Publisher: A. A. Balkema, Rotterdam, Swets & Zeitlinger, Lisse, 29-46.
- (98) Tombolini, F., Brigatti, M.F., Marcelli, A., Cibir, G., Mottana, A., Giuli, G. (2002) Crystal chemical study by XANES of trioctahedral micas: the most characteristic layer silicates. *International Journal of Modern Physics B: Condensed Matter Physics, Statistical Physics, Applied Physics*, **16**, 1673-1679.

- (99) Brigatti, M.F. (2002) Raw natural materials for conventional ceramics. Proceedings of the international School Earth and Planetary Sciences, Engineering Mineralogy and Ceramic materials. Siena, 2002, 77-106.
- (100) Guggenheim, S., Bain, D.C., Bergaya, F., Brigatti, M.F., Drits, V.A., Eberl, D.D., Formoso, M.L.L., Galan, E., Merriman, R.J., Peacor, D.R., Stanjek, H., Watanabe, T. (2002) Report of the Association International Pour l'Étude des Argiles (AIPEA) Nomenclature Committee for 2001: Order, disorder and crystallinity in phyllosilicates and the use of the "Crystallinity Index". Clay Minerals, **37**, 389-393.
- (101) Guggenheim, S., Bain, D.C., Bergaya, F., Brigatti, M.F., Drits, V.A., Eberl, D.D., Formoso, M.L.L., Galan, E., Merriman, R.J., Peacor, D.R., Stanjek, H., Watanabe, T. (2002) Report of the Association International Pour l'Étude des Argiles (AIPEA) Nomenclature Committee for 2001: Order, disorder and crystallinity in phyllosilicates and the use of the "Crystallinity Index". Clays and Clay Minerals, **50**, 406-409.
- (102) Tombolini, F., Brigatti, M.F., Marcelli, A., Cibir, G., Mottana, A., Giuli, G. (2002) Local and average Fe distribution in trioctahedral micas: analysis of Fe K edge spectra in the phlogopite-annite and phlogopite-tetraferriphlogopite joins on the basis of single-crystal XRD refinements. European Journal of Mineralogy, **14**, 1075-1085  
 (102 bis) Tombolini, F., Brigatti, M.F., Marcelli, A., Cibir, G., Mottana, A., Giuli, G. (2002) Local and average Fe distribution in trioctahedral micas: analysis of Fe K edge spectra in the phlogopite-annite and phlogopite-tetraferriphlogopite joins on the basis of single-crystal XRD refinements. SIS Pubblicazioni
- (103) Brigatti, M.F., Guggenheim, S., Poppi, M. (2003) Crystal chemistry of the 1M mica polytype: The octahedral sheet. American Mineralogist, **88**, 667-675.
- (104) Brigatti, M.F., Kile, D.E. Poppi, L. (2003) Crystal structure and chemistry of lithium-containing trioctahedral micas-3T. European Journal of Mineralogy, **15**, 349-355.
- (105) Tombolini, F., Cibir, G., Marcelli, A., Mottana, A., Brigatti, M.F., Giuli, G. (2003) A polarized XANES investigation of Mg-rich trioctahedral micas. AIP Conference Proceedings , **652** (X-Ray and Inner-Shell Processes), 481-490.
- (106) Cardelli, A., Cibir, G., Benfatto, M., Della Longa, S., Brigatti, M.F., Marcelli, A. (2003) A crystal-chemical investigation of Cr substitution in muscovite by XANES spectroscopy. Physics and Chemistry of Minerals, **30**, 54-58.
- (107) Benincasa, E., Brigatti, M.F., Poppi, L., Bea Barredo, F. (2003) Crystal chemistry of dioctahedral micas from peraluminous granites: The Pedrobernardo pluton (Central Spain). European Journal of Mineralogy, **15**, 543-550.
- (108) Brigatti, M.F., Caprilli, E., Marchesini, M., Poppi, L. (2003) The crystal structure of roscoelite-1M. Clays and Clay Minerals, **51**, 301-308.
- (109) Brigatti, M.F., Malferrari, D., Medici, L., Poppi, L. (2003) Effect of amino acids on the retention of copper by beidellite. Environmental Engineering Science, **20**, 430-442.
- (110) Brigatti, M.F., Colonna, S., Malferrari, D., Medici, L. (2004) Characterization of Cu-complexes in smectite with different layer charge location: chemical, thermal and EXAFS study. Geochimica et Cosmochimica Acta, **68**, 781-788.
- (111) Brigatti, M.F., Caprilli, E., Mottana, A., Poppi, L. (2004) Nb-containing titanite: New data and crystal structure refinement. Neues Jahrbuch für Mineralogie Monatshefte, **2004**, 117-126.
- (112) Brigatti, M.F., Malferrari, D., Medici, L., Ottolini, L., Poppi, L. (2004) Crystal chemistry of apatites from the Tapira carbonatite complex, Brazil. European Journal of Mineralogy, **16**, 677-685.

- (113) Marcelli, A., Cibin, G., Di Matteo, S., Chaboy, J., Di Gioacchino, D., Tripodi, P., Brigatti, M.F., Mottana, A., Laguna Marco, M. (2004) Octahedral low spin symmetric configurations vs. high spin octahedral distorted configurations. The case of Fe in natural layered silicates. *Journal of Physics and Chemistry of Solids*, **65**, 1491-1500.
- (114) Brigatti, M.F.; Colonna, S.; Malferrari, D.; Medici, L.; Poppi, L. (2005) Mercury adsorption by montmorillonite and vermiculite: a combined XRD, TG-MS, and EXAFS study. *Applied Clay Science*, **28**, 1-8.
- (115) Cibin, G., Mottana, A., Marcelli, A., Brigatti, M. F. (2005) Potassium coordination in trioctahedral micas investigated by K-edge XANES spectroscopy. *Mineralogy and Petrology*, **85**, 67-87.
- (116) Brigatti, M.F., Caprilli, E., Funicello, R., Giordano, G., Mottana, A., Poppi, L. (2005) Crystal chemistry of ferroan phlogopites from the Albano maar lake (Colli Albani volcano, central Italy). *European Journal of Mineralogy*, **17**, 611-621.
- (117) Brigatti, M. F., Laurora, A., Malferrari, D., Medici, L., Poppi, L. (2005) Adsorption of  $[Al(Urea)_6]^{3+}$  and  $[Cr(Urea)_6]^{3+}$  complexes in the vermiculite interlayer. *Applied Clay Science* **30**, 21-32.
- (118) Brigatti, M.F., Caprilli, E., Malferrari, D., Medici, L., Poppi, L. (2005) Crystal structure and chemistry of trithionite- $2M_2$  and polythionite- $2M_2$ . *European Journal of Mineralogy*, **17**, 475-481.
- (119) Brigatti, M. F., Malferrari, D., Poppi, M., Poppi, L. (2005) The  $2M_1$  dioctahedral mica polytype: A crystal chemical study. *Clays and Clay Minerals*, **53**, 190-197.
- (120) Schingaro, E., Scordari, F., Mesto, E., Brigatti, M. F., Pedrazzi, G. (2005) Cation-site partitioning in Ti-rich micas from Black Hill (Australia): A multi-technical approach. *Clays and Clay Minerals*, **53**, 179-189.
- (121) Brigatti M.F. (2005) Analisi Termica. Metodi Ufficiali di Analisi Mineralogica del Suolo- Supplemento Ordinario N. 60, Gazzetta Ufficiale N. 70 del 6 Aprile 2005.
- (122) Brigatti M.F. (2005) Analisi Termica, Capitolo IX. In Metodi di Analisi Mineralogica del Suolo- Ed. Ministero delle Politiche Agricole e Forestali- pp104-128.
- (123) Chu, W.S., Wu, Z.Y., Liu, W.H., Malferrari, D., Brigatti, M.F., Cibin, G., Marcelli, A. (2005) XANES study of Hg sorption products on montmorillonite at high temperatures. *High energy physics and nuclear physics*, **29**, 84-88.
- (124) Brigatti M.F. Caprilli E., Marchesini M. (2006) Poppiite, the  $V^{3+}$  end-member of the pumpellyite group: Description and crystal structure. *American Mineralogist*, **91**, 584-588
- (125) Cibin, G., Mottana, A., Marcelli, A., Brigatti, M.F. (2006) 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. *American Mineralogist* (2006), **91**, 1150-1162.
- (126) Marcelli, A, Cibin, G., Cinque, G., Mottana, A., Brigatti, M.F., (2006) Polarized XANES spectroscopy: the K-edge of layered K-rich silicates. *Radiation Physics and Chemistry*, **75**, 1596-1607.
- (127) Brigatti, M.F., Galan, E., Theng, B.K.G. (2006) Structure and Mineralogy of Clay Minerals. In *Handbook of Clay Science*, Bergaya, Theng and Lagaly Ed. Developments in Clay Science, Vol. I, Elsevier Ltd. Pp.1-71. ISSN:1572-4352. AN 2008:445567
- (128) Malferrari, D., Brigatti, M.F., Laurora, A., Medici, L., Pini, S. (2006) Thermal behavior of Cu(II)-, Cd(II)-, and Hg(II)-exchanged Montmorillonite complexed with cysteine. *Journal of Thermal Analysis and Calorimetry*, **83**, 453-461.

- (129) Guggenheim, S., Adams, J. M., Bain, D. C., Bergaya, F., Brigatti, M. F., Drits, V. A., Formoso, M. L. L., Galan, E., Kogure, T., Stanjek, H. (2006) Summary of recommendations of nomenclature committees relevant to clay mineralogy: report of the Association Internationale Pour l'Etude des Argiles (aipea) nomenclature committee for 2006. *Clays and Clay Minerals*, **54**, 761-772.
- (130) Guggenheim, S., Adams, J. M., Bain, D. C., Bergaya, F., Brigatti, M. F., Drits, V. A., Formoso, M. L. L., Galan, E., Kogure, T., Stanjek, H. (2006) Summary of recommendations of nomenclature committees relevant to clay mineralogy: report of the Association Internationale Pour l'Etude des Argiles (AIPEA) nomenclature committee for 2006. *Clay Minerals*, **41**, 863-877.
- (131) Valdre, G., Malferrari, D., Marchetti, D., Brigatti, M.F. (2007) The effect of different plasma gas environments on vermiculite layer. *Applied Clay Science*, **35**, 76-84.
- (132) Malferrari D., Brigatti, M.F., Laurora, A., Pini, S., Medici, L. (2007) Sorption kinetics and chemical forms of Cd(II) sorbed by thiol-functionalized 2:1 clay minerals. *Journal of Hazardous Materials*, **137**, 1560-1571. doi:10.1016/j.jhazmat.2006.08.069
- (133) Laurora, A., Brigatti, M.F., Mottana A., Malferrari D., Caprilli, E. (2007) Crystal chemistry of trioctahedral micas in alkaline and subalkaline volcanic rocks: A case study from Mt. Sassetto (Tolfa district, Latium, central Italy). *American Mineralogist*, **92**, 468-480.
- (134) Brigatti, M.F., Galli, E., Malferrari, D., Rossi A. (2007) Valutazione dello stato ambientale delle ex-aree minerarie a solfuri di Boccassuolo (Palagano, Modena) Cà Marsiglio e Cà Gabriele (Montecreto, Modena). *Sottoterra*, **125**, 1-16.
- (135) Brigatti, M.F. (2007) Crystal structure and chemistry of phyllosilicates: some recent perspectives and new trends. *Proceeding of the invited lectures to Euroclay 2007*, Editors F. Rocha, D Terroso, and A. Quintela, pp.18-25, ISBN: 978-972-789-241-9.
- (136) Brigatti, M.F., Mottana, A., Malferrari, D., Cibir, G. (2007) Crystal structure and chemical composition of Li-, Fe-, and Mn-rich micas. *American Mineralogist*, **92**, 1395-1400.
- (137) Guggenheim, S., Adams, J. M., Bain, D. C., Bergaya, F., Brigatti, M. F., Drits, V. A., Formoso, M. L. L., Galan, E., Kogure, T., Stanjek, H. (2007) Summary of recommendations of nomenclature committees relevant to clay mineralogy: report of the association internationale pour l'etude des argiles (AIPEA) Nomenclature Committee for 2006. *Clay Minerals*, **42**, 575-576. SSN:0009-8558. AN 2008:357874.
- (138) Guggenheim, S., Adams, J. M., Bain, D. C., Bergaya, F., Brigatti, M.F., Drits, V. A., Formoso, M. L. L., Galan, E., Kogure, T., Stanjek, H. (2007) Summary of recommendations of nomenclature committees relevant to clay mineralogy: report of the association internationale pour l'etude des argiles (AIPEA) nomenclature committee for 2006. *Clays and Clay Minerals*, **55**, 646-647. ISSN:0009-8604. AN 2008:30744 .
- (139) Brigatti M.F., Caprilli E., Malferrari D., Mottana A. (2007) Crystal structure and crystal chemistry of fluorannite and its relationships to annite. *Mineralogical Magazine*, **71**, 683-690.
- (140) Marchetto, P., Laurora, A., Malferrari, D., Brigatti, M.F., Bosi, G. (2007) Soils under bilberry in the Frignano area (Modena Apennine). *Atti della Societa dei Naturalisti e Matematici di Modena*, **138**, 63-93.
- (141) Malferrari, D., Brigatti, M.F., Marcelli, A., Chu, W, Wu, Z. (2008) Modification of Hg complexes in layered silicates with temperature: an in situ XAS study. *Microporous and Mesoporous Materials*, **107**, 128-133. doi:10.1016/j.micromeso.2007.05.020
- (142) Brigatti M.F., Guidotti C.V., Malferrari D., Sassi F.P. (2008) Single-crystal X-ray studies of trioctahedral micas coexisting with dioctahedral micas in metamorphic sequences from Western Maine. *American Mineralogist*, **93**, 396-408. DOI: 10.2138/am.2008.2523



- (143) Brigatti M.E., Malferrari D., Poppi M., Mottana A., Cibin G., Marcelli A., Cinque G. (2008) Interlayer potassium and its surrounding in micas: Crystal chemical modeling and XANES spectroscopy. *American Mineralogist*, **93**, 735-745. DOI: 10.2138/am.2008.2644
- (144) Pini, S., Affronte M., Brigatti M.F. (2008) Magnetic behaviour of trioctahedral mica-2M<sub>1</sub> occurring in a magnetic anomaly zone. *Mineralogical Magazine*, **72**, 1035–1042. DOI: 10.1180/minmag.2008.072.5.1035
- (145) Malferrari, D., Brigatti, M.F., Laurora, A., Pini, S. (2009) heavy metals in sediments from canals for water supplying and drainage: mobilization and control strategies. *Journal of Hazardous Materials*, **161**, 723-729. doi:10.1016/j.jhazmat.2008.04.014
- (146) Malferrari D., Brigatti M.F., Elmi C., Laurora A., Valdré (2009) Layer charge and heavy metals structures in hydrated 2 : 1 silicates: state of the art and new advances on cadmium. *Zeitschrift für Kristallographie* **224**, 311-315. DOI 10.1524/zkri.2009.1139.
- (147) Valdrè G., Malferrari D., Brigatti M.F. (2009) Crystallographic features and cleavage nanomorphology of chlinochlore: specific applications. *Clays and Clay Minerals*, **57**, 183-193. DOI: 10.1346/CCMN.2009.0570205.
- (148) Laurora, A., Malferrari, D., Brigatti, M. F., Mottana, A., Caprilli, E., Giordano, G., Funicello, R (2009) Crystal chemistry of trioctahedral micas in the top sequences of the Colli Albani volcano, Roman Region, central Italy. *Lithos*, **113**, 507-520. doi:10.1016/j.lithos.2009.05.030
- (149) Guggenheim, S., Adams, J. M., Bergaya, F., Brigatti, M. F., Drits, V. A., Formoso, M. L. L., Galan, E., Kogure, T., Stanjek, H., Stucki, J. W. (2009) Nomenclature for stacking in phyllosilicates: report of the Association Internationale pour l'Etude des Argiles (AIPEA) nomenclature committee for 2008. *Clay Minerals*, **44**, 157-159.
- (150) Guggenheim, S., Adams, J. M., Bergaya, F., Brigatti, M. F., Drits, V. A., Formoso, M. L. L., Galan, E., Kogure, T., Stanjek, H., Stucki, J. W. (2009) Nomenclature for stacking in phyllosilicates: report of the Association Internationale pour l'Etude des Argiles (AIPEA) nomenclature committee for 2008. *Clays and Clay Minerals*, **57**, 134-135. DOI: 10.1346/CCMN.2009.0570112.
- (151) Malferrari D., Pistoni, R., Laurora A., Brigatti, M. F., Mantovani E., Tonelli F. (2009) Approvvigionamento idrico e manutenzione delle infrastrutture idrauliche di bonifica: il problema dello smaltimento dei sedimenti dei canali. *Atti dei convegni Lincei*, **248**, 143-152.
- (152) Bujnowski, T. J., Guggenheim, S., Brigatti, M.F. (2009) Al-saturated phlogopite: charge considerations and crystal chemistry. *Clays and Clay Minerals*, **57**, 673-685. DOI: 10.1346/CCMN.2009.0570601
- (153) Cibin, G., Mottana, A., Marcelli, A., Cinque, G., Xu, W., Wu, Z., Brigatti, M. F. (2010) The interlayer structure of trioctahedral lithian micas: An AXANES spectroscopy study at the potassium K-edge. *American Mineralogist*, **95**, 1084-1094. AMMIAY 95(07)897-1124 ISSN 0003-004X (print) ISSN 1945-3027 (Online).
- (154) Sassi R., Brigatti, M.F., Gomez-Pugnaire, M.T., Peruzzo, L., Tellini, F., Sassi F.P. (2010) What drives the distribution in nature of 3T vs. 2M<sub>1</sub> polytype in muscovites and phengites? A general assessment based on new data from metamorphic and igneous granitoid rocks. *American Mineralogist*, **95**, 1182-1191. AMMIAY 95(0809)1125–1364 ISSN 0003-004X (print) ISSN 1945–3027 (Online), DOI: 10.2138/am.2010.3362
- (155) Elmi, C. Brigatti M.F., Pasquali M., Montecchi M., Laurora A., Malferrari D., Nannarrone S. (2010) Crystal Chemistry, surface morphology, and X-ray photoelectron spectroscopy of Fe-rich osumilite from Mt. Arci, Sardinia (Italy). *Physics and Chemistry of Minerals*, **37**, 561-569. DOI 10.1007/s00269-010-0357-4

- (156) Malferrari, D., Brigatti, M.F., Marcelli, A., Chu, W., Wu, Z. (2010) Effect of temperature on Hg-cysteine complexes in vermiculite and montmorillonite. *Applied Clay Science*, **50**, 12-18. doi:10.1016/j.clay.2010.05.014
- (157) Malferrari, D., Brigatti, M. F., Elmi, C., Laurora, A. (2011) Determination of Hg binding forms in contaminated soils and sediments: state of the art and a case study approaching abandoned mercury mines from Mt. Amiata (Siena, Italy). *Neues Jahrbuch fuer Mineralogie, Abhandlungen*, **188**, 65-74. DOI: 10.1127/0077-7757/2011/0194
- (158) Xu W., Chen D., Chu W., Wu Z., Marcelli, A., Mottana, A., Soldatov, A., Brigatti, M.F. (2011) Quantitative local structure determination in mica crystals: ab initio simulations of polarization XANES at the potassium K-edge. *Journal of Synchrotron Radiation*, **18**, 418-426. doi:10.1107/S0909049511002949, ISSN 0909-0495
- (159) Elmi, C., Brigatti, M.F., Pasquali, L., Montecchi, M., Laurora, A., Malferrari, D., Nannarone, S. (2011) High-temperature vesuvianite: crystal chemistry and surface considerations. *Physics and Chemistry of Minerals*, **38**, 459-468. DOI 10.1007/s00269-011-0419-2
- (160) Schingaro, E., Lacalamita, M., Scordari, F., Brigatti, M.F., Pedrazzi, G. (2011) Crystal chemistry of Ti-rich fluorophlogopite from Presidente Olegario, Alto Paranaiba igneous province, Brazil. *American Mineralogist*, **96**, 732-743. DOI: 10.2138/am.2011.3666
- (161) Laurora, A., Brigatti M.F., Malferrari D., Galli E., Rossi, A. Ferrari M. (2011) Crystal chemistry of lizardite-1T from northern Apennines ophiolites, near Modena, Italy. *Canadian Mineralogist*, **49** 1045-1054. 10.3749/canmin.49.4.1045
- (162) Brigatti M.F., Malferrari D., Laurora A., Elmi C. (2011) Structure and mineralogy of layer silicates: recent perspectives and new trends. In: *Layered mineral structures and their application in advanced technologies*. Brigatti M.F. and Mottana A. Eds. EMU Notes in Mineralogy, Vol. 11, 1–71.
- (163) M.F. BRIGATTI, A. MOTTANA (2011). PREFACE TO EMU Notes in Mineralogy 11: Layered Mineral Structures and their Application in Advanced Technologies. In: AA.VV.. *Layered Mineral Structures and their Application in Advanced Technologies*. p. i-xiv, London:THE MINERALOGICAL SOCIETY OF GREAT BRITAIN & IRELAND, ISBN: 9780903056274
- (164) Malferrari, D., Laurora, A., Elmi, C., Brigatti, M.F., Medici, L., Zeqireja, M.C. (2012) . Channel Sediment Characterization and Evaluation of the Potential Impact of Iron-Rich Phases on the Use of Sediments in Brick Production. *Environmental Engineering Science*, **29**, 840-847. DOI: 10.1089/ees.2010.0060
- (165) Pini, S., Brigatti, M. F., Affronte, M., Malferrari, D., Marcelli, A. (2012) Magnetic behavior of trioctahedral micas with different octahedral Fe ordering. *Physics and Chemistry of Minerals*, **39**, 665-674. DOI 10.1007/s00269-012-0520-1
- (166) Brigatti, M.F., Galan, E. Theng, B.K.G.(2013) Structure and Mineralogy of Clay Minerals. Bergaya and Lagaly ed. *Developments in Clay Science*, 5(*Handbook of Clay Science, Part A*), 21-81.Elsevier, Amsterdam. doi:10.1016/B978-0-08-098258-8.00002-X
- (167) Elmi C, Brigatti M.F., Guggenheim,S., Pasquali L., Montecchi M., Malferrari D., Nannarone S. (2013) Sodian muscovite-2M1: crystal chemistry and surface features. *Canadian Mineralogist* **51**, 5-14. doi:10.3749/canmin.51.1.5
- (168) Galli E., Brigatti M.F., Malferrari D., Sauro F. De Waele J. (2013) Rossiantonite, Al<sub>3</sub>(PO<sub>4</sub>)(SO<sub>4</sub>)<sub>2</sub>(OH)<sub>2</sub> (H<sub>2</sub>O)<sub>10</sub>×4H<sub>2</sub>O, a new hydrated aluminium phosphate-sulfate mineral from Chimanta massif, Venezuela: description and crystal structure. *American Mineralogist*, **98**, 1906-1913. DOI: <http://dx.doi.org/10.2138/am.2013.4393->
- (169) Galli Ermanno, Brigatti MariaFranca, Malferrari Daniele, Sauro Francesco, De Waele Jo (2013). IMA Commission on New Minerals, Nomenclature and Classification (CNMNC).

MINERALOGICAL MAGAZINE, vol. 77, p. 1-12, ISSN: 0026-461X, doi: 10.1180/minmag.2013.077.1.01

- (170) Malferrari, D., Laurora, A., Brigatti, M.F., Coltorti M, Di Giuseppe, D., Faccini, B, Passaglia E., Vezzalini MG. (2013) Open-field experimentation of an innovative and integrated zeolite cycle: project definition and material characterization. *Rendiconti Lincei*, 24, 141-150. DOI 10.1007/s12210-013-0235-3
- (171) Elmi C, Brigatti M.F., Guggenheim, S., Pasquali L., Montecchi M., Nannarone S. (2014) Crystal Chemistry and Surface Configurations of Two Iron-Bearing Trioctahedral Mica-1M Polytypes. *Clays and Clay Minerals*, 62, 243-252, doi:10.1346/CCMN.2014.0620401
- (172) Elmi C, Brigatti M.F., Guggenheim, S., Pasquali L., Montecchi M., Nannarone (2014) Crystal chemistry and surface configurations of two polyolithionite-1M crystals. *American Mineralogist*, 99, 2049-2059. DOI: 10.2138/am-2014-4908
- (173) Bernini, F., Castellini, E., Malferrari, D., Borsari, M. and Brigatti M.F. (2015) Stepwise structuring of the adsorbed layer modulates the physic-chemical properties of hybrid materials from phyllosilicates interacting with the  $\mu$ -oxo  $\text{Fe}^{+3}$  phenanthroline complex. *Journal of Microporous and Mesoporous Materials* (2015) 19-29. DOI 10.1016/j.micromeso.2015.02.039.
- (174) Brigatti, M.F., Affronte, M., Elmi, C., Malferrari, D., Laurora, A. (2015) Trioctahedral Fe-rich micas: Relationships between magnetic behavior and crystal chemistry. *American Mineralogist*, 100, 2231-2241.
- (175) Brigatti, M.F. (2015) Effect of crystal chemistry and cation ordering on cleavage processes of dioctahedral micas: petrogenetic implications. *Rendiconti online Società Geologica Italiana*, 37, 17-19. DOI:10.3301/ROL.2015.165.
- (176) Brigatti M.F., Elmi C., Guggenheim, S., Malferrari, D. and Poppi, M. (2016) An alternative method of calculating cleavage energy: The effect of compositional domains in micas. *American Mineralogist*, 101, 2738–2746.
- (177) Bernini F., Malferrari, D., Pignataro M., Bortolotti C. A., Di Rocco G., Lancellotti, L., Brigatti M.F., Kayed R., Borsari M., Del Monte F. Castellini E. (2016) Pre-amyloid oligomers budding: a metastatic mechanism of proteotoxicity. *Scientific Reports*, 6:35865 | DOI: 10.1038/srep35865. Open access.
- (178) Bernini, F., Castellini, E., Malferrari D., Castro, G.R., Sainz Díaz, C.I., Brigatti, M.F. and Borsari M. (2017) Effective and Selective Trapping of Volatile Organic Sulfur Derivatives by Montmorillonite Intercalated with a  $\mu$ -oxo Fe(III)–Phenanthroline Complex. *Applied Materials and Interfaces*, 9, 1045-1056. DOI: 10.1021/acsami.6b11906
- (179) Brigatti M.F., Sainz Díaz, C.I., Borsari, M., Bernini, F., Castellini E., Malferrari, D. (2017) Crystal chemical characterization and computational modeling of a  $\mu$ -oxo Fe(III) complex with 1,10-phenanthroline clarify its interaction and reactivity with montmorillonite. *Rendiconti Lincei, Scienze Fisiche e Naturali*. DOI 10.1007/s12210-017-0615-1.
- (180) Castellini E., Bernini F., Borsari M., Brigatti M.F., Castro G.R., Malferrari D., Medici L., Mucci A. (2017) Baseline studies of the Clay Minerals Society Source Clay montmorillonite STx-1b. *Clays and Clay Minerals*, 65, 220–233. DOI: 10.1346/CCMN.2017.064065
- (181) Brigatti M.F., Castellini E., Malferrari D. (2017) Crystal chemistry of dioctahedral micas in the muscovite-celadonite and muscovite-paragonite joins: implications of cleavage-surface properties. *Acc. Naz. Sci. Lett. Arti di Modena, Memorie Scientifiche, Giuridiche, Letterarie* (a.a. 2017) Ser. IX, v. I, fasc. I.

- (182) Brigatti M.F. (2017) Cristallochimica delle fengiti a partire dal determinate contributo di Francesco Paolo Sassi. Rendiconti Lincei, numero speciale "Francesco Paolo Sassi ad un anno dalla scomparsa", Roma, 20 aprile 2017, 19-29
- (183) Malferrari D., Castellini E., Bernini F., Serrano Rubio A., Castro G.R, Sainz Diaz I., Caleffi M., Brigatti M.F., Borsari M. (2018) Chemical trapping of gaseous H<sub>2</sub>S at high and low partial pressures by an iron complex immobilized inside the montmorillonite interlayer. *Microporous and Mesoporous Materials*, 265, 8-17.
- (184) Sainz Diaz I., Bernini F., Castellini E., Malferrari D., Borsari M., Mucci A., Brigatti M.F. (2018) Experimental and Theoretical Investigation of Intercalation and Molecular Structure of Organo-Iron Complexes in Montmorillonite. *Phys. Chem. C*, 2018, 122 (44), pp 25422–25432. DOI: 10.1021/acs.jpcc.8b07912
- (185) Guarino. V., Brigatti M.F. (2018) Crystallization conditions of micas in oxidized igneous systems. *American Mineralogist*, 103, 1999–2010. DOI: 0003-004X/18/0012–1999\$05.00/DOI: <https://doi.org/10.2138/am-2018-6567>
- (186) Castellini E., Malferrari D., Bernini F., Sainz Diaz C.I., Mucci A., Sola M., Brigatti M.F., Borsari M. (2019) Trapping at the Solid–Gas Interface: Selective Adsorption of Naphthalene by Montmorillonite Intercalated with a Fe(III)– Phenanthroline Complex. *ACS Omega*, 4, 7785-7794. <http://pubs.acs.org/journal/acsodf>
- (187) Castellini E., Malferrari D., Bernini F., Mucci A., Borsari M., Brigatti M.F. (2019) Structural properties of adsorbent phyllosilicates rule the entrapping ability of intercalated iron-phenanthroline complex towards thiols. *Microporous and Mesoporous Materials*, 285, 150-160. <https://doi.org/10.1016/j.micromeso.2019.04.05>
-