

## Refereed Publications

- 1) Structural and microthermometric studies of fluid inclusions in the Gallura intrusive complex (N Sardinia). *European Journal of Mineralogy*, 1992, 4: 1175-1185. **G. Giorgetti**, M.L. Frezzotti, C. Ghezzi.
- 2) The composition and role of fluid phases in migmatites from the Gerlache Inlet (Terra Nova Bay, Northern Victoria Land, Antarctica): preliminary results. *Terra Antartica*, 1994, 1: 23-25. **G. Giorgetti**, M.L. Frezzotti, R. Palmeri.
- 3) Mineralogy and metamorphic zonation in low-grade metasediments from the Priestly Glacier, North Victoria Land, Antarctica. *Terra Antartica*, 1994, 1: 33-36. S. Fadda, M. Franceschelli, **G. Giorgetti**.
- 4) Role of fluids in migmatites: CO<sub>2</sub>-H<sub>2</sub>O fluid inclusions in leucosomes from the Deep Freeze Range migmatites (Terra Nova Bay, Antarctica). *Journal of Metamorphic Geology*, 1996, 14: 307-317. **G. Giorgetti**, M.L. Frezzotti, R. Palmeri, E.A.J. Burke.
- 5) Microstructures of intergrown phyllosilicate grains from Verrucano metasediments (northern Apennines, Italy). *Contribution to Mineralogy and Petrology*, 1997, 128: 127-138. **G. Giorgetti**, I. Memmi, F. Nieto.
- 6) Carbonic fluid evolution in syntectonic veins in metapelites and marbles from Priestley Formation (northern Victoria Land, Antarctica). in: "The Antarctic region: geological evolution and processes"; ed. C.A. Ricci; 1997, 279-282. **G. Giorgetti**, M.L. Frezzotti, R. Carosi, M. Meccheri, J.L.R. Touret.
- 7) Role of fluid in southern Wilson Terrane (northern Victoria Land, Antarctica) during Ross orogeny: Summary of fluid inclusion data. in: "The Antarctic region: geological evolution and processes"; ed. C.A. Ricci; 1997, 283-286. M.L. Frezzotti, C. Ghezzi, **G. Giorgetti**.
- 8) Metamorphic evolution of Verrucano metasediments in northern Apennines: new petrological constraints. *European Journal of mineralogy*, 1998, 10: 1295-1308. **G. Giorgetti**, B. Goffé, I. Memmi, F. Nieto.
- 9) Further illite crystallinity data from Bowers Terrane, Millen Schist and Robertson Bay Terrane (northern Victoria Land, Antarctica). *Terra Antartica*, 1998, 5: 235-244. **G. Giorgetti**, G. Capponi, M. Meccheri, I. Memmi.
- 10) Microfabric and alteration in Carrara marble: a preliminary study. *Science and Technology for Cultural Heritage*, 1998, 7: 115-126. M. Barsottelli, F. Fratini, **G. Giorgetti**, C. Manganelli Del Fa G. Molli.
- 11) Contrast in processes and products of weathering of carpholite and associated phyllosilicates: A TEM study. *European Journal of Mineralogy*, 2000, 12: 33-44. **G. Giorgetti**, I. Memmi, D.R. Peacor.
- 12) Characterization of non-equilibrium and equilibrium occurrences of paragonite/muscovite intergrowths in an eclogite from the Sesia-Lanzo zone (Western Alps, Italy). *Contribution to Mineralogy and Petrology*, 2000, 138: 326-336. **G. Giorgetti**, P. Tropper, E.J. Essene, D.R. Peacor.
- 13) TEM study of the mechanism of transformation of detrital kaolinite and muscovite to illite/smectite in sediments of the Salton Sea Geothermal Field. *European Journal of Mineralogy*, 2000., 12: 923-934. **G. Giorgetti**, M.P. Mata, D.R. Peacor.
- 14) Retarded illite crystallinity caused by stressed-induced subgrain boundaries in illite. *Clay Minerals*, 2000, 35: 693-708. **G. Giorgetti**, I. Memmi, D.R. Peacor.
- 15) Microfabric study on the deformational and thermal history of the Alpi Apuane marbles (Carrara marbles), Italy *Journal of Structural Geology*, 2000, 22: 1809-1825. G. Molli, P. Conti, **G. Giorgetti**, M. Meccheri, N. Oesterling
- 16) Structural and petrological constraints on the tectono-metamorphic evolution of the Massa Unit (Alpi Apuane, NW Tuscany, Italy). *Geological Journal*, 2000, 35: 251-264. G. Molli, **G. Giorgetti**, M. Meccheri.
- 17) Comparison of diagenetic and low-grade metamorphic evolution of chlorite in associated metapelites and metabasites. an integrated TEM and XRD study. *Journal of Metamorphic Geology*, 2000, 18: 531-550. P. Arkai, M.P. Mata, **G. Giorgetti**, D.R. Peacor, M. Tóth.
- 18) Clay mineral mixtures as alteration products in pillow basalts from Eastern Flank of Juan de Fuca Ridge: a TEM-AEM study. *Clay Minerals*, 2001, 36: 75-91. **G. Giorgetti**, P. Marescotti, R. Cabella, G. Lucchetti.
- 19) Comparison of evolution of trioctahedral chlorite/berthierine/smectite in coeval metabasites and metapelites from diagenetic to epizonal grades. *Clays and Clay Minerals*, 2001, 49: 318-332. M.P. Mata, **G. Giorgetti**, P. Arkai, D.R. Peacor.
- 20) Continental shelf drift deposit indicates non-steady state Antarctic bottom water production in the Holocene. *Marine Geology*, 2001, 179: 1-8. P.T. Harris, G. Brancolini, L. Armand, M. Busetti, R.J. Beaman, **G. Giorgetti**, M. Presti, F. Trincardi.

- 21) Evidence of a close link between petrology and isotope records: constraints from SEM, EMP, TEM and in situ  $^{40}\text{Ar}$ - $^{39}\text{Ar}$  laser analyses on multiple generations of white micas (Lanternman Range, Antarctica). *Earth and Planetary Science Letters*, 2001, 192/3: 389-405. G. Di Vincenzo, B. Ghiribelli, **G. Giorgetti**, R. Palmeri.
- 22) Tectono-metamorphic evolution of the Alpi Apuane metamorphic complex: new data and constraints for geodynamic models. *Bollettino della Società Geologica Italiana*, 2002, 1: 789-800. G. Molli, **G. Giorgetti**, M. Meccheri.
- 23) Evolution of mineral assemblages and textures from sediment through hornfels in the Salton Sea Geothermal Field: Direct crystallization of phyllosilicates in a hydrothermal-metamorphic system. *Clay Minerals*, 2003, 38: 113-126. **G. Giorgetti**, M.P. Mata, D.R. Peacor.
- 24) Mid-late Pleistocene glacial-marine sedimentary processes of a high-latitude, deep-sea sediment drift (Antarctic Peninsula Pacific Margin). *Marine Geology*, 2002: 343-370. R.G. Lucchi, M. Rebesco, A. Camerlenghi, M. Buseti, L. Tomadin, G. Villa, D. Persico, C. Morigi, M.C. Bonci, **G. Giorgetti**.
- 25) Plio-quaternary sedimentation on the Wilkes land continental rise: preliminary results. *Deep-Sea Research II*, 2003, 50: 1529-1562. M. Buseti, A. Caburlotto, L. Armand, D. Damiani, **G. Giorgetti**, R.G. Lucchi, P.G. Quilty, G. Villa.
- 26) Intermediate sodium-potassium mica in hydrothermally altered rocks of the Waterloo deposit, Australia: A combined SEM-EMP-XRD-TEM study". **G. Giorgetti**, T. Monecke, R. Kleeberg, P.M. Herzig. *Contribution to Mineralogy and Petrology*, 2003, 146: 159-173
- 27) Tuscan black glosses: A mineralogical characterization by high resolution techniques. *European Journal of Mineralogy*, 2004, 16: 493-503. **G. Giorgetti**, E. Gliozzo, I. Memmi.
- 28) Retrograde diagenesis, a widespread process on a regional scale. *Clay Minerals*, 2005, 40: 93-104. F. Nieto, M.P. Mata, B. Bauluz, **G. Giorgetti**, P. Árkai, D.R. Peacor.
- 29) Two-, three- and four-feldspar assemblages with hyalophane and celsian: implications for phase equilibria in the system  $\text{BaAl}_2\text{Si}_2\text{O}_8$ - $\text{KAlSi}_3\text{O}_8$ - $\text{NaAlSi}_3\text{O}_8$ - $\text{CaAl}_2\text{Si}_2\text{O}_8$ . *European Journal of Mineralogy*, 2005, 17: 515-535. E. J. Essene, C. Clafin, **G. Giorgetti**, P. Mata, D. R. Peacor, P. Arkai.
- 30) Oceanography and sedimentation beneath the McMurdo ice shelf in Windless Bight, Antarctica. *Antarctic Data Series*, 25; Antarctic Research Centre, Victoria University of Wellington, Wellington; pp: 85; 2005. P. J. Barrett, L. Carter, D. Damiani, G. B. Dunbar, E. Dunker, **G. Giorgetti**, M. A. Harper, R. M. McKay, F. Niessen, U. Nixford, A. R. Pyne, C. Riesselmann, N. Robinson, C. Hollis, P. Strong
- 31) Low-temperature hydrothermal alteration of silicic glass at the Pacmanus Hydrothermal vent field, Manus Basin: an XRD, SEM and AEM-TEM study. *Clays and Clay Minerals*, 2006, 54: 240-251. **G. Giorgetti**, T. Monecke, R. Kleeberg, M.D. Hannington.
- 32) Clay mineral fluctuations and surface textural analysis of quartz grains in Pliocene-Quaternary marine sediments from Wilkes Land continental rise (East-Antarctica): Paleoenvironmental significance. *Marine Geology*, 2006, 226: 281-295. D. Damiani, **G. Giorgetti**, I. Memmi Turbanti.
- 33) Textural and mineralogical changes associated with the incipient hydrothermal alteration of glassy dacite at the submarine PACMANUS hydrothermal system, eastern Manus Basin. *Journal of Volcanology and Geothermal Research*, 2007, 160: 23-41. T. Monecke, **G. Giorgetti**, O. Scholtyssek, R. Kleeberg, J. Gotze, M.D. Hannington, S. Petersen.
- 34) Newly-formed phyllosilicates in rock matrices and fractures from CRP-3 core (Antarctica): An electron microscopy study. *Clay Minerals*, 2007, 42: 21-43. **G. Giorgetti**, F.S. Aghib, K.J.T. Livi, A.-C. Gaillot, T.J. Wilson.
- 35) High-resolution analysis of silica and sulphate-rich rock varnishes from Victoria Land (Antarctica). *European Journal of Mineralogy*, 2007, 19, 381-389. **G. Giorgetti**, C. Baroni.
- 36) The Ricker Hills Tillite provides evidence of Oligocene warm-based glaciation in Victoria Land, Antarctica. *Global and Planetary Change*, 2008, 60, 457-470. C. Baroni, F. Fasano, **G. Giorgetti**, M.C. Salvatore, C. Ribecai.
- 37) Provenance of glacial-marine sediments under the McMurdo/Ross Ice Shelf (Windless Bight, Antarctica): Heavy minerals and geochemical data. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 2008, 7: 262-283. D. Damiani, **G. Giorgetti**.
- 38) Provenance of Pleistocene sediments in the ANDRILL AND-1B drillcore: clay and heavy mineral data. *Global and Planetary Changes*, 2009, 69: 94-102. **G. Giorgetti**, F. Talarico, S. Sandroni, A. Zeoli.
- 39) I materiali lapidei. In: E. Gliozzo, I. Turbanti Memmi, A. Akeraz, E. Papi (Eds), *Sidi Ali Ben Ahmed - Thamusida, 2. L'archeometria*, Roma: Quasar, 59-72; 2009. **G. Giorgetti**, E. Gliozzo. ISBN: 978-88-7140-406-6.

- 40) Low-temperature hydrothermal alteration of trachybasalt at Conical Seamount, Papua New Guinea: Formation of smectite and metastable precursor phases. *Clays and Clay Minerals*, 2009, 57: 513-529. **G. Giorgetti**, T. Monecke, R. Kleeberg, M.D. Hannington.
- 41) The tectono-metamorphic record of the Tuscan Nappe from the Colline Metallifere region (Northern Apennines, Italy). *Ital. J. Geosci.*, 2010, 129: 177-187. A. Brogi, **G. Giorgetti**.
- 42) Sienese "Archaic" Majolica: Characterisation of Enamels and Glazes by Analytical-Transmission Electron Microscopy (AEM-TEM). [Proceedings of the 37th International Symposium on Archaeometry, 13th - 16th May 2008, Siena, Italy](#), 2011, Part 3, 377-381. **G. Giorgetti**, [C. Fortina](#), [I. Turbanti Memmi](#) and [A. Santagostino Barbone](#).
- 43) Tectono-metamorphic evolution of the siliciclastic units in the Middle Tuscan Range (inner Northern Apennines): Mg-carpholite bearing quartz veins reate to syn-metamorphic syn-orogenic foliation. *Tectonophysics*, 2011, 526-529: 167-184. A. Brogi, **G. Giorgetti**.
- 44) Evolution with depth from detrital to authigenic smectites in sediments from AND-2A drill core (McMurdo Sound, Antarctica). *Clay Minerals* 2012, 47: 481-498. F. Iacoviello, **G. Giorgetti**, F. Nieto, I. Turbanti Memmi.
- 45) Alteration of volcanic deposits in the ANDRILL AND-1B core: influence of paleodeposition, eruptive style and magmatic composition. *Geosphere* 2013, 9: 275-286. A. Di Roberto, **G. Giorgetti**, F. Iacoviello, M. Pompilio.
- 46) Post glacial sedimentary processes on the Storfjorden and Kveithola trough mouth fans: significance of extreme glacimarine sedimentation. *Global and Planetary Change*, 2013.111: 309-326. R.G. Lucchi, A. Camerlenghi, M. Rebesco, E. Colmenero-Hidalgo, F.J. Sierro, R. Urgeles-Escasans, R. Melis, C. Morigi, M.A. Barcena, **G. Giorgetti**, G. Villa, D. Persico, J.A. Flores, M.T. Pedrosa, P. Macri, A. Caburlotto. doi: [10.1016/j.gloplacha.2013.10.008](https://doi.org/10.1016/j.gloplacha.2013.10.008).
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- 49) Early Miocene Antarctic glacial history: new insights from heavy mineral analysis from ANDRILL AND-2A drill core sediments. *International Journal of Earth Sciences*, 2014. F. Iacoviello, **G. Giorgetti**, I. Turbanti Memmi, S. Passchier. DOI: 10.1007/s00531-014-1117-3.
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- 52) Marine sedimentary record of Meltwater Pulse 1a along the NW Barents Sea continental margin. *Arktos – The Journal of Arctic Geosciences*, 2015. R.G. Lucchi, L. Sagnotti, A. Camerlenghi, P. Macri, M. Rebesco, M.T. Pedrosa, **G. Giorgetti**. DOI: 10.1007/s41063-015-0008-6.
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- 56) Initiation and development of the Pennine Basal Thrust (Swiss Alps): a structural and geochronological study of an exhumed megathrust. *Journal of Structural Geology*, 2019, 126:338-356 Giovanni Luca Cardello G.L., Di Vincenzo G., Giorgetti G., Zwingmanne H., Manckelow N. <https://doi.org/10.1016/j.jsg.2019.06.014>.

57) From hazardous asbestos containing wastes (ACW) to new secondary raw material through a new sustainable inertization process: a multimethodological mineralogical study. *Journal of Hazardous Materials*, 2021, 413, 125419. N. M.Marian, **G.Giorgetti**, C. Magrini, G.C. Capitani, L. Galimberti, A. Cavallo, R. Salvini, C. Vanneschi, C.Viti. <https://doi.org/10.1016/j.jhazmat.2021.125419>.