

DOTTORATO IN SCIENZE DELLA TERRA

PUBBLICAZIONI COLLEGIO DOCENTI 2011-2015

• ANDREOZZI GIOVANNI B.

- 1) Bruschini E., Speziale S., Andreozzi G.B., Bosi F., Hålenius U. (2015) The elasticity of MgAl_2O_4 – MnAl_2O_4 spinels by Brillouin scattering and an empirical approach for bulk modulus prediction. American Mineralogist, 100, 644-651.
- 2) D'Ippolito V., Andreozzi G.B., Hålenius U., Skogby H., Hametner K., Günther D. (2015) Color mechanisms in spinel: cobalt and iron interplay for the blue color. Physics and Chemistry of Minerals, 42, 431-439.
- 3) Pacella A., Fantauzzi M., Turci F., Cremisini C., Montereali M.R., Nardi E., Atzei D., Rossi A., Andreozzi G.B. (2015) Surface alteration mechanism and topochemistry of iron in tremolite asbestos: a step toward understanding the potential hazard of amphibole asbestos. Chemical Geology, 405, 28-38.
- 4) Bosi F., Andreozzi G.B., Agrosì G., Scandale E. (2015) Fluor-tsilaite, $\text{NaMn}_3\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{F}$, a new tourmaline from San Piero in Campo (Elba, Italy) and new data on tsilaite tourmaline from the holotype specimen locality. Mineralogical Magazine, 79, 89-101.
- 5) Bosi F., Andreozzi, G.B., Hålenius, U., Skogby, H. (2015) Experimental evidence for partial Fe^{2+} disorder at the Y and Z sites of tourmaline: a combined EMP, SREF, MS, IR and OAS study of schorl. Mineralogical Magazine, 79, 515-528.

• BARBIERI MAURIZIO

- 1) Barbieri, M., Garone, A., Neziri, A., Rossi, M. First groundwaterchemical status assessment of the Buna River-ProtectedLandscape (Albania) (2015) Environmental Earth Sciences, 74 (7), pp. 6325-6338.
- 2) Sighinolfi, G.P., Contini, G., Barbieri, M., Nigro, A. Chemical and isotopic characterization of products of small-scale hypervelocity impacts: The Gebel Kamil event (2015) Periodico di Mineralogia, 84 (2), pp. 323-339
- 3) Brunetti, P., Zanella, L., De Paolis, A., Di Litta, D., Cecchetti, V., Falasca, G., Barbieri, M., Altamura, M.M., Costantino, P., Cardarelli, M. Cadmium-inducible expression of the ABC-typetransporter AtABCC3 in creasesphytochelatin-mediated cadmium tolerance in Arabidopsis (2015) Journal of Experimental Botany, 66 (13), pp. 3815-3829.
- 4) Battistel, M., Hurwitz, S., Evans, W., Barbieri, M. Multicomponent geothermometry applied to a medium-low enthalpy carbonate-evaporite geothermal reservoir (2014) Energy Procedia, 59, pp. 359-365.
- 5) Caschetto M., Barbieri M., Galassi D. M.P., Mastrolillo L., Rusi S., Stoch F., Di Cioccio A., Petitta M. (2014). Human alteration of groundwater-surface water interactions (Sagittario River, Central Italy): Implication for flow regime, contaminant fate and invertebrate response. Environmental Earth Sciences, Vol. 71, pp. 1791-1807. 2-s2.0-84893971594

- **BASILI ROBERTO**

- 1) Christophersen, A., Litchfield, N., Berryman, K., Thomas, R., Basili, R., Wallace, L., Ries, W., Hayes, G. P., Haller, K. M., Yoshioka, T., Koehler, R. D., Clark, D., Wolfson-Schwehr, M., Boettcher, M. S., Villamor, P., Horspool, N., Ornhammarath, T., Zuñiga, R., Langridge, R. M., Stirling, M. W., Goded, T., Costa, C., Yeats, R. (2015). Development of the Global Earthquake Model's neotectonic fault database. *Natural Hazards*, 79(1), 111-135, doi: 10.1007/s11069-015-1831-6.
- 2) Bonini L., Basili R., Toscani G., Burrato P., Seno S., Valensise G. (2015). The role of pre-existing discontinuities in the development of extensional faults: an analog modeling perspective. *Journal of Structural Geology*, 74, 145-158, doi: 10.1016/j.jsg.2015.03.004.
- 3) Lorito, S., J. Selva, R. Basili, F. Romano, M. M. Tiberti, and A. Piatanesi (2015), Probabilistic Hazard for Seismically-Induced Tsunamis: Accuracy and Feasibility of Inundation Maps, *Geophysical Journal International*, 200, 574-588, doi:10.1093/gji/ggu408.
- 4) Tiberti, M. M., R. Basili, and P. Vannoli (2014), Ups and downs in western Crete (Hellenic subduction zone), *Sci. Rep.*, 4, 5677, doi:10.1038/srep05677. (<http://www.nature.com/srep/2014/140714/srep05677/full/srep05677.html>)
- 5) Hiemer, S., J. Woessner, R. Basili, L. Danciu, D. Giardini, and S. Wiemer (2014), A smoothed stochastic earthquake rate model considering seismicity and fault moment release for Europe, *Geophys. J. Int.*, 198, 1159-1172, doi:10.1093/gji/ggu186.

- **BATTAGLIA MAURIZIO**

- 1) Di Traglia F., Battaglia M., Nolesini T., Lagomarsino D., Casagli N. (2015). Ground-based InSAR monitoring of volcanic deformation at Stromboli. *Scientific Reports*, 5:13569, doi: 10.1038/srep13569
- 2) Tizzani P., Battaglia M., Castaldo R., Pepe A., Zeni G. and R. Lanari (2015). Magma and fluid migration at Yellowstone Caldera in the last three decades inferred from InSAR, leveling and gravity measurements. *J. Geophys. Res. Solid Earth.*, doi: 10.1002/2014JB011502
- 3) Bagnardi, M., M. P. Poland, D. Carbone, S. Baker, M. Battaglia, and F. Amelung (2014), Gravity changes and deformation at Kīlauea Volcano, Hawaii, associated with summit eruptive activity, 2009–2012, *J. Geophys. Res. Solid Earth*, 119, doi:10.1002/2014JB011506
- 4) Battaglia M., Cervelli P.F. and J.R. Murray (2013). dMODELS: A MATLAB software package for Modeling Crustal Deformation near Active Faults and Volcanic Centers. *J. Volcanol. Geotherm. Res.* 254, 1-4
- 5) Battaglia M., M. Di Bari, V. Acocella and M. Neri (2011). Dike emplacement and flank instability at Mount Etna: constraints from a poro-elastic-model of flank collapse. *J. Volcanol. Geotherm. Res.* 199, 153–164

- **BOZZANO FRANCESCA**

- 1) Bozzano F., Cipriani I., Mazzanti P. & Prestininzi A. (2014): A field experiment for calibrating landslide time-of-failure prediction functions. *International Journal of Rock Mechanics and Mining Sciences*, vol. 67, April 2014, 69–77.
- 2) Bozzano F., Lenti L., Martino S., Montagna A., Paciello A. (2011): Earthquake triggering of landslides in highly jointed rock masses: Reconstruction of the 1783 Scilla rock avalanche (Italy). *Geomorphology* 129 (2011) 294–308. doi:10.1016/j.geomorph.2011.02.025
- 3) Paolo Mazzanti, Francesca Bozzano, Ivan Cipriani, Alberto Prestininzi (2014). New insights into the temporal prediction of landslides by a terrestrial SAR interferometry monitoring case study. *LANDSLIDES*, ISSN: 1612-510X, doi: 10.1007/s10346-014-0469-x
- 4) Bianchi Fasani, G., Bozzano, F., Cardarelli, E., Cercato, M. (2013): Underground cavity investigation within the city of Rome (Italy): A multi-disciplinary approach combining geological and geophysical data. *Engineering Geology*, , 152, 109-121.
- 5) Marra, F. , Bozzano, F., Cinti, F.R. (2013) Chronostratigraphic and lithologic features of the Tiber River sediments (Rome, Italy): Implications on the post-glacial sea-level rise and Holocene climate, *Global and Planetary Change*, Volume 107, August 2013, Pages 157-176.

- **BRANDANO MARCO**

- 1) Brandano M., Lipparini L., Campagnoni V. & Tomassetti L. (2012)- Downslope-migrating large dunes in the Chattian carbonate ramp of the Majella Mountains (Central Apennines, Italy). *Sedimentary Geology* 255-256, 29-41
- 2) Pomar L., Bassant P., Brandano M, Ruchonnet C. & Janson X. (2012) Impact of carbonate producing biota on platform architecture: Insights from Miocene examples of the Mediterranean region. *Earth-Science Reviews* 113 (2012) 186–211
- 3) Reuter, M., Piller, W.E., Brandano, M., Harzhauser, M. (2013) Correlating Mediterranean shallow water deposits with global Oligocene-Miocene stratigraphy and oceanic events (2013) *Global and Planetary Change*, 111, pp. 226-236.
- 4) Brandano, M., Ronca, S. (2014) Depositional processes of the mixed carbonate-siliciclastic rhodolith beds of the Miocene Saint-Florent Basin, northern Corsica (2014) *Facies*, 60 (1), pp. 73-90.
- 5) Brandano, M., Tomassetti, L., Frezza, V. (2015) Halimeda dominance in the coastal wedge of Pietra di Finale (Ligurian Alps, Italy): The role of trophic conditions. *Sedimentary Geology*, 320, pp. 30-37.

- **CARMINATI EUGENIO**

- 1) Carminati E., Doglioni C., Alps vs. Apennines: The paradigm of a tectonically asymmetric Earth, *Earth-Science Reviews*, 112 , 67–96, 2012.

- 2) Carminati E., Corda L., Mariotti M., Scifoni A., Trippetta T., Mesozoic syn- and post-rifting evolution of the Central Apennines, Italy: the role of Triassic Evaporites, *Journal of Geology*, 121, 327–354, 2013.
- 3) Aldega L., Corrado S. Carminati E., Shaban A., Sherkati S., Thermal Evolution Of The Kuh-E-Asmari And Sim Anticlines In The Zagros Fold-And-Thrust Belt: Implications For Hydrocarbon Generation, *Marine and Petroleum Geology*, <http://dx.doi.org/10.1016/j.marpetgeo.2014.04.017>, 2014.
- 4) Rodríguez-González J., Negredo A.M., Carminati E., Slab-mantle flow interaction: influence on subduction dynamics and duration, *Terra Nova*, DOI: 10.1111/ter.12095, 2014.
- 5) Carminati, E., S. Fabbi, and M. Santantonio, Slab bending, syn-subduction normal faulting, and out-of-sequence thrusting in the Central Apennines, *Tectonics*, 33, 530-551, doi:10.1002/2013TC003386, 2014.

- **COLLETTINI CRISTIANO**

- 1) Tesei T., Lacroix B., Collettini C. 2015. Fault strength in thin-skinned tectonic wedges across the smectite-illite transition: Constraints from friction experiments and critical tapers. *Geology*, 43 (10), 923-926.
- 2) Tesei, T., Collettini, C., Barchi, MR., Carpenter, BM. and Di Stefano, G. 2014. Heterogeneous strength and fault zone complexity of carbonate-bearing thrusts with possible implications for seismicity. *EPSL*, 408, 307-318.
- 3) Valoroso, L., Chiaraluce L., Collettini C. (2014). Earthquakes and fault zone structure. *Geology*, doi:10.1130/G35071.1.
- 4) Collettini C., Viti C., Tesei S., Mollo S. (2013). Thermal decomposition along natural carbonate faults during earthquakes. *Geology*, 41, 927-930.
- 5) Collettini C., Niemeijer A., Viti C., Smith, S.A.F., Marone C.J. (2011). Fault structure, frictional properties and mixed-mode fault slip behavior. *EPSL*, 311, 316–327.

- **DEL MONTE MAURIZIO**

- 1) Pica A., Vergari F., Fredi P., Del Monte M. (2015). The AeternaUrbs Geomorphological Heritage (Rome, Italy). *GEOHERITAGE*, p. 1-12, ISSN: 1867-2477, doi: 10.1007/s12371-015-0150-3
- 2) P. P. C. Aucelli, M. Conforti, M. Della Seta, M. Del Monte, L. D'Uva, C. M. Rosskopf, F. Vergari (2014). MULTI-TEMPORAL DIGITAL PHOTGRAMMETRIC ANALYSIS FOR QUANTITATIVE ASSESSMENT OF SOIL EROSION RATES IN THE LANDOLA CATCHMENT OF THE UPPER ORCIA VALLEY (TUSCANY, ITALY). *Land Degradation & Development*, ISSN: 1085-3278, doi: 10.1002/lde.2324
- 3) Francesca Vergari, Marta Della Seta, Maurizio Del Monte, Maurizio Barbieri (2013). Badlands denudation "hot spots": The role of parent material properties on geomorphic processes in 20-years monitored sites of Southern Tuscany (Italy). *CATENA*, vol. 106, p. 31-41, ISSN: 0341-8162, doi: 10.1016/j.catena.2012.02.007

- 4) Francesca Vergari, Marta Della Seta, Maurizio Del Monte, Paola Fredi, Elvio Lupia Palmieri (2013). Long- and short-term evolution of several Mediterranean denudation hot spots: The role of rainfall variations and human impact. *GEOMORPHOLOGY*, vol. 183, p. 14-27, ISSN: 0169-555X, doi: 10.1016/j.geomorph.2012.08.002
- 5) I. BOLLATI, M. DELLA SETA, M. PELFINI, M. DEL MONTE, P. FREDI, E. LUPIA PALMIERI (2012). Dendrochronological and geomorphological investigations to assess water erosion and mass wasting processes in the Apennines of Southern Tuscany (Italy). *CATENA*, vol. 90, p. 1-17, ISSN: 0341-8162, doi: 10.1016/j.catena.2011.11.005

- **DOGLIONI CARLO**

- 1) Cardello G.L and Doglioni C., 2015. From Mesozoic rifting to the Apennines orogeny: The Gran Sasso range (Italy). *Gondwana Research*, 27, 1307–1334, <http://dx.doi.org/10.1016/j.gr.2014.09.009>
- 2) Doglioni C. and Panza G.F. (2015) Polarized plate tectonics. *Advances in Geophysics*, 56, 3, 1-167, <http://dx.doi.org/10.1016/bs.agph.2014.12.001>
- 3) Doglioni C., Carminati E., Petricca P., Riguzzi F. (2015) Normal fault earthquakes or graviquakes. *Scientific Reports*, 5, 12110 doi:10.1038/srep12110.
- 4) Doglioni, C., Barba, S., Carminati, E. & Riguzzi, F. 2011. Role of the brittle-ductile transition on fault activation. *Phys. Earth Planet. Int.*, 184, 160–171.
- 5) Zanchetta, S., Garzanti, E., Doglioni, C., Zanchi, A. 2012. The Alps in the Cretaceous: a doubly vergent pre-collisional orogen. *Terra Nova*, doi: 10.1111/j.1365-3121.2012.01071.x

- **D'OREFICE MAURIZIO**

- 1) Antonioli F., D'Orefice M., Ducci S., Firmati M., Foresi L.M., Graciotti R., Perazzi P., Pantaloni M. & Principe C. (2011) – Palaeogeographic reconstruction of northern Tyrrhenian coast using archaeological and geomorphological markers at Pianosa island (Italy). *Quaternary International*, 232: 31-44.
- 2) Bellotti P., Calderoni G., Di Rita F. D'Orefice M., D'Amico C., Esu D., Magri D., Preite Martinez M., Tortora P. & Valeri P. (2011) – The Tiber river delta plain (Central Italy): coastal evolution and implications on the ancient Roman settlements. *The Holocene*: 1-12.
- 3) D'Orefice M., Graciotti R., Lo Mastro S., Muraro C., Pantaloni M., Soligo M. & Tuccimei P. (2012) – U/Th dating of a Cladocora Caespitosa from Capo S. Marco marine Quaternary deposits (Sardinia, Italy). *Alpine and Mediterranean Quaternary*, 25(1): 35-40.
- 4) Bellotti P., Calderoni G., Dall'Aglio P.L., Davoli L., D'Orefice M., Ferrari K., Mazzanti M., Torri P. (2012) - Landscape evolution around Minturnae. *Rend. Online Soc. Geol. It.*, 21: 732-734.
- 5) D'Orefice M. & Graciotti R. (2015) – Rilevamento geomorfologico e cartografia: realizzazione, lettura, interpretazione. Dario Flaccovio Editore, 360 pp.

• **FAVERO GABRIELE**

- 1) I. Taurino, G. Sanzó, F. Mazzei, G. Favero, G. De Micheli, S. Carrara. Fast Synthesis of Platinum Nanopetals and Nanospheres for Highly-sensitive non-Enzymatic Detection of Glucose and Selective Sensing of Ions. *Scientific Reports*, 2015, 5:15277: 1-10. doi: 10.1038/srep15277; I.F.=5.578
- 2) C. Tortolini, P. Bollella, M.L. Antonelli, R. Antiochia, F. Mazzei, G. Favero. DNA-based Biosensors for Hg²⁺ Determination by Polythymine-Methylene Blue modified Electrodes. *Biosensors & Bioelectronics*, 2015, 67: 524-531. doi: 10.1016/j.bios.2014.09.031; I.F.=6.451
- 3) C. Lanzellotto, G. Favero, M.L. Antonelli, C. Tortolini, S. Cannistraro, E. Coppari, F. Mazzei. Nanostructured Enzymatic Biosensor based on Fullerene and Gold Nanoparticles: Preparation, Characterization and Analytical Application. *Biosensors & Bioelectronics*, 2014, 55: 430-437. doi: 10.1016/j.bios.2013.12.028; I.F.=6.451
- 4) L. Carlucci, G. Favero, C. Tortolini, M. Di Fusco, E. Romagnoli, S. Minisola, F. Mazzei. Several Approaches for Vitamin D Determination by Surface Plasmon Resonance and Electrochemical Affinity Biosensors. *Biosensors & Bioelectronics*, 2013, 40: 350-355. doi: 10.1016/j.bios.2012.07.077; I.F.=6.451
- 5) F. Pepi, F. Mazzei, M. Frasconi, G. Favero, P. Giacomello, A. Tata, S. Garzoli, M. Di Fusco, A. D'Annibale, R. Ragno, A. Patsilinakos, S. Cannistraro, C. Baldacchini. Chemically Modified Multi-Walled Carbon Nanotubes Electrodes with Ferrocene Derivatives through Reactive Landing. *The Journal of Physical Chemistry C*, 2011, 115(11): 4863-4871. doi: 10.1021/jp1100472; I.F.=4.835

• **MARAS ADRIANA**

- 1) Mangialardo S., Cottignoli V., Cavarretta E., Salvador L, Postorino P., Maras A. (2012) Pathological Biominerals: Raman and Infrared Studies of Bioapatite Deposits in Human Heart Valves. *Appl. Spectroscopy* 66 (10), 1121-1127 [doi: 10.1366/12-06606].
- 2) A. Maras, M. Botticelli, P. Ballirano (2013). Archaeometric investigations on cinnabar provenance and origin by X-ray powder diffraction: preliminary data. *International Journal of Conservation Science (ISSN:2067-533X)*, 4, 685- 692.
- 3) P. Ballirano, M. Botticelli, A. Maras (2013). Thermal behaviour of cinnabar, α -HgS, and the kinetics of the β -HgS (metacinnabar) \rightarrow α HgS conversion at room temperature kinetics of the β -HgS (metacinnabar) \rightarrow α HgS conversion at room temperature. *European Journal of Mineralogy (ISSN:0935-1221)*, 25, 957- 965.
- 4) A. Macchia, S. Nunziante Cesaro, L. Campanella, A. Maras, M. Rocchia, G. Roscioli (2013). Which light for cultural heritage: comparison of light sources with respect to realgar photodegradation. *Journal of Applied Spectroscopy (ISSN:0021-9037)*, 80, 655- 661.
- 5) A. Macchia, L. Campanella, D. Gazzoli, E. Gravagna, A. Maras, S. Nunziante, M. Rocchia, G. Roscioli (2013). Realgar and light. *Procedia Chemistry (ISSN:1876-6196)*, 8, 185-193.

• **MIGNARDI SILVANO**

- 1) MIGNARDI S., DE VITO C., FERRINI V., MARTIN R.F. (2011) -The efficiency of CO₂ sequestration via carbonate mineralization with simulated wastewaters of high salinity. *J. Hazard. Mater.* 191, 49-55.
- 2) MIGNARDI S., CORAMI A., FERRINI V. (2012) - Evaluation of the effectiveness of phosphate treatment for the remediation of mine waste soils contaminated with Cd, Cu, Pb, and Zn. *Chemosphere* 86, 354-360.
- 3) BALLIRANO P., DE VITO C., MIGNARDI S., FERRINI V. (2013) -Phase transitions in the Mg-CO₂-H₂O system and the thermal decomposition of dypingite, Mg₅(CO₃)₄(OH)₂·5H₂O: Implications for geo-sequestration of carbon dioxide. *Chem. Geol.* 340, 59-67.
- 4) BALLIRANO P., DE VITO C., MEDEGHINI L., MIGNARDI S., FERRINI V., MATTHIAE P., BERSANI D., LOTTICI P.P. (2014) - A combined use of optical microscopy, X-ray powder diffraction and micro-Raman spectroscopy for the characterization of ancient ceramic from Ebla (Syria). *Ceram. Int.* 40, 16409-16419.
- 5) DE VITO C., MEDEGHINI L., MIGNARDI S., ORLANDI D., NIGRO L., SPAGNOLI F., LOTTICI P.P., BERSANI D. (2014) - Technological fingerprints of Black-Gloss Ware from Motya (Western Sicily, Italy). *Appl. Clay Sci.* 88-89, 202-213.

• **MOLLO SILVIO**

- 1) Mollo S., Giacomo P.P., Coltorti M., Ferlito C., Iezzi G., Scarlato P., 2015, Reconstruction of magmatic variables governing recent Etnean eruptions: constraints from mineral chemistry and P-T-fO₂-H₂O modelling, *Lithos*, 212-215, 311-320, 10.1016/j.lithos.2014.11.020.
- 2) Mollo S., Vona A., 2014, The geochemical evolution of clinopyroxene in the Roman Province: A window on decarbonation from wall-rocks to magma, *Lithos*, 192-195, 1-7, 10.1016/j.lithos.2014.01.009.
- 3) Mollo S., Masotta M., 2014, Optimizing pre-eruptive temperature estimates in thermally and chemically zoned magma chambers, *Chemical Geology*, 368, 97-103, 10.1016/j.chemgeo.2014.01.007.
- 4) Mollo S., Blundy J., Scarlato P., Iezzi G., Langone A., 2013, The partitioning of trace elements between clinopyroxene and trachybasaltic melt during rapid cooling and crystal growth, *Contributions to Mineralogy and Petrology*, 166, 1633-1654, doi: 10.1007/s00410-013-0946-6.
- 5) Mollo S., Putirka K., Iezzi G., Scarlato P., 2013, The control of cooling rate on titanomagnetite composition: Implications for a geospeedometry model applicable to alkaline rocks from Mt. Etna volcano, *Contributions to Mineralogy and Petrology*, 165, 457–475, doi: 10.1007/s00410-012-0817-6.

• **PALLADINO DANilo**

- 1) Freda C., Gaeta M., Giaccio B., Marra F., Palladino D.M., Scarlato P., Sottili G. (2011). CO₂-driven large mafic explosive eruptions: the Pozzolane Rosse case study from the Colli Albani Volcanic District (Italy). *Bull. Volcanol.*, 73: 241-256.
- 2) Sottili G., Palladino D.M., Gaeta M., Masotta M. (2012). Origins and energetics of maar volcanoes: examples from the ultrapotassic Sabatini Volcanic District (Roman Province, Central Italy). *Bull. Volcanol.*, 74; 163-186.
- 3) Taddeucci J., Scarlato P., Capponi A., Del Bello E., Cimarelli C., Palladino D.M., Küppers U. (2012). High-speed imaging of Strombolian explosions: the ejection velocity of pyroclasts. *Geophys. Res. Lett.*, 39, L0230, 6 pp., doi:10.1029/2011GL050404.
- 4) Palladino D.M., Gaeta M., Giaccio B., Sottili G. (2014). On the anatomy of magma chamber and caldera collapse: the example of trachy-phonolitic explosive eruptions of the Roman Province (central Italy). *J. Volcanol. Geotherm. Res.*, 281: 12-26. DOI 10.1016/j.jvolgeores.2014.05.020.
- 5) Sottili G., Palladino D.M., Cuffaro M., Doglioni C. (2015). Earth's rotation variability triggers explosive eruptions in subduction zones. *Earth, Planets and Space*, 67: 208, DOI: 10.1186/s40623-015-0375-z

- **PALOMBO MARIA RITA**

- 1) Aureli, D., Contardi, A., Giaccio, B., Jicha, B., Lemorini, C., Madonna, S., Magri, D., Marano, F., Milli, S., Modesti, V., Palombo, M.R., Rocca, R. (2015). Palaeoloxodon and human interaction: Depositional setting, chronology and archaeology at the Middle Pleistocene Ficoncella site (Tarquinia, Italy), PLoS ONE"10, 4, e0124498 DOI 0.1371/journal.pone.0124498,Scopus,2-s2.0-84929486103
- 2) Palombo, M. R. (2015). To what extent could functional diversity be a useful tool in inferring ecosystem responses to past climate changes? *Quaternary International* 2015 doi:10.1016/j.quaint.2015.07.069
- 3) Palombo, M. R. (2014). Deconstructing mammal dispersals and faunal dynamics in SW Europe during the Quaternary. *Quaternary Science Reviews*, 96, 50-71. 10.1016/j.quascirev.2014.05.013
- 4) van der Geer, A.A., Lyras, G.A., Lomolino, M.V., Palombo, M.R., Sax, D.F. (2013). Body size evolution of palaeo-insular mammals: temporal variations and interspecific interactions. *Journal of Biogeography* 40(8), 1440-1450
- 5) Lomolino M.V., Sax D., M.R. Palombo, van der Geeer A.A. (2012). Of mice and mammoths: evaluations of causal explanations for body size evolution in insular mammals. *Journal of Biogeography*, 39, p. 842-854

- **PETITTA MARCO**

- 1) AMORUSO A., CRESCENTINI L., PETITTA M., RUSI S., TALLINI M (2011) Impact of the April 6, 2009 L'Aquila Earthquake on groundwater flow in the Gran Sasso carbonate aquifer, Central Italy, *Hydrological Processes*, 25 (11), 1754-1764, DOI: 10.1002/hyp.7933, IF=2.488

- 2) CARUCCI V., PETITTA M., ARAVENA R. (2012) Interaction between shallow and deep aquifers in the Tivoli Plain (central Italy) enhanced by groundwater extraction: a multi-isotope approach and geochemical modeling. *Applied Geochemistry*, 27, 266-280, DOI:10.1016/j.apgeochem.2011.11.007, IF=1.708
- 3) AMORUSO A., CRESCENTINI L., MARTINO S., PETITTA M., TALLINI M. (2014). Correlation between groundwater flow and deformation in the fractured carbonate Gran Sasso aquifer (INFN underground laboratories, Central Italy), *Water Resour. Res.*, 50, 4858-4876, doi:10.1002/2013WR014491, IF=3.709
- 4) GALASSI D.M.P., LOMBARDO P., FIASCA B., DI CIOCCIO A., DI LORENZO T., PETITTA M. & DI CARLO P. (2014) Earthquakes trigger the loss of groundwater biodiversity. *Scientific Reports*, 4:6273, DOI: 10.1038/srep06273, IF=5.078
- 5) DI LORENZO T., BORGONI, R., AMBROSINI R., CIFONI M., GALASSI, D.M.P., PETITTA, M. (2015) Occurrence of volatile organic compounds in shallow alluvial aquifers of a Mediterranean region: Baseline scenario and ecological implications, *Science of the Total Environment*, 538: 712-723, DOI: 10.1016/j.scitotenv.2015.08.077 IF=4.099

- **SADORI LAURA**

- 1) Roberts N., Brayshaw D., Kuzucuoğlu C., Perez R., Sadori L., 2011. The mid-Holocene climatic transition in the Mediterranean: Causes and consequences. *The Holocene* 21: 3-13.
- 2) Sadori L., Jahns S., Peyron O., 2011. Mid-Holocene vegetation history of the central Mediterranean. *The Holocene* 21: 117-129.
- 3) Zanchetta G., Giraudi C., Sulpizio R. Magny M., Drysdale R.N. Sadori L. 2012. Constraining the onset of the Holocene “Neoglacial” over the central Italy using tephra layers. *Quaternary Research* 78: 236-247.
- 4) Sadori L., Ortu, E., Peyron, O., Zanchetta, G., Vannière, B., Desmet, M., Magny, M., 2013. The last 7 millennia of vegetation and climate changes at Lago di Pergusa (central Sicily, Italy). *Climate of the Past* 9: 1969-1984.
- 5) Moreno A., Svensson A., Brooks S. J., Connor S., Engels S., Fletcher W., Genty D., Heiri O., Labuhn I., Persouli A., Peyron O., Sadori L., Valero-Garcés B., Wulf S., Zanchetta G. and data contributors, 2014. A compilation of Western European terrestrial records 60-8 ka BP: towards an understanding of latitudinal climatic gradients. *Quaternary Science Reviews* 106: 167-185.

- **SARDELLA RAFFAELE**

- 1) ARZARELLO M., PAVIA G., PERETTO C., PETRONIO C., SARDELLA R. (2012). Evidence of an Early Pleistocene Hominin presence at Pirro Nord (Apricena, Foggia, southern Italy): P13 Site. *QUATERNARY INTERNATIONAL*, 267: 56-61.
- 2) IURINO D.A., FICO R., PETRUCCI M., SARDELLA R. (2013) - A Pathological Late Pleistocene canid from San Sidero (Italy): Implications for social- and feeding-behaviour. *NATURWISSENSCHAFTEN*, vol. 100 (3), pp.

235-243.

- 3) BELLUCCI L., BONA F., CORRADO P., MAGRI D., MAZZINI I., SCARDIA G., PARENTI F., SCARDIA G., SARDELLA R. (2014) - Evidence of late Gelasian dispersal of African fauna at Coste San Giacomo (Anagni Basin, central Italy): Early Pleistocene environments and the background of early human occupation in Europe. QUATERNARY SCIENCE REVIEWS, 96: 72-85.
- 4) ROBUSTELLI G., RUSSO ERMOLLI E., PETROSINO P., JICHA B., SARDELLA R., DONATO P. (2014) - Tectonic and climatic control on geomorphological and sedimentary evolution of the Mercure basin, southern Apennines, Italy. GEOMORPHOLOGY, 214: 423-435.
- 5) BELLUCCI L., SARDELLA R., ROOK L. (2015) - Large mammal biochronology framework in Europe at Jaramillo: The Epivilafranchian as a forma biochron. QUATERNARY INTERNATIONAL, 389: 84-89.

• **TRIPPETTA FABIO**

- 1) Petracchini, L., Antonellini, M., Billi, A., Scrocca, D., Trippetta, F., Mollo, S. (2015). Pressure solution inhibition in a limestone-chert composite multilayer: implications for the seismic cycle and fluid flow, Tectonophysics, doi: 10.1016/j.tecto.2015.02.005
- 2) Smeraglia, L., F. Trippetta, E. Carminati, and S. Mollo (2014), Tectonic control on the petrophysical properties of foredeep sandstone in the Central Apennines, Italy, J. Geophys. Res. Solid Earth, 119, doi:10.1002/2014JB011221.
- 3) A. Di Domenica, P. Petricca, F. Trippetta, E. Carminati, F. Calamita, (2014). Investigating fault reactivation during multiple tectonic inversions through mechanical and numerical modeling: An application to the Central-Northern Apennines of Italy, Journal of Structural Geology, Volume 67, Part A, October 2014, Pages 167-185, ISSN 0191-8141, <http://dx.doi.org/10.1016/j.jsg.2014.07.018>.
- 4) F. Trippetta, C. Collettini, P.G. Meredith, S. Vinciguerra (2013). Evolution of the elastic moduli of seismogenic Triassic Evaporites subjected to cyclic stressing. Tectonophysics, vol. 592, p. 67-79, ISSN: 0040-1951, doi: 10.1016/j.tecto.2013.02.011
- 5) F. Trippetta, C. Collettini, M.R. Barchi, A. Lupattelli, F. Mirabella (2013). A multidisciplinary study of a natural example of CO₂ geological storage in central Italy. International Journal Of Greenhouse Gas Control, ISSN: 1750-5836, doi: 10.1016/j.ijggc.2012.11.010