

Breve curriculum vitae del prof. BARONE Germana Maria

Posizione accademica: Ricercatore confermato

Settore scientifico-disciplinare: Ge0 09

Titoli accademici:

Laurea in Scienze Geologiche Università di Catania (15/07/1993).

Borse di studio e contratti di ricerca (1995, 1996, 1997, 2001) Università di Messina.

Dottorato di ricerca in Petrologia delle associazioni magmatiche Università di Catania (1998-2001).

Borsa post-dottorato Università di Messina (Feb. 2002- 2004).

Assegno di ricerca (2004 - 2005) Università di Messina.

Ricercatore dal 2006 Università di Catania

Principali insegnamenti tenuti:

cristallografia, mineralogia e petrografia applicata, geologia e litologia, geochimica, minerali e rocce di pregio, complementi di petrografia applicata presso l'Università di Catania. SiSSiS (classe 54A, A060) e TFA (classe A059)

Pubblicazioni più significative:

I risultati conseguiti formano oggetto di 195 lavori di cui 48 sono pubblicati su riviste ISI

1. **Barone G.** (2002) *Preliminary archaeometric analysis on amphorae used for transport in VI and V centuries B.C. , from excavation at Gela (Sicily)*. Per. Min. 71, 3, 273 -287.
2. **Barone G.**, Lo Giudice A., Mazzoleni P., Pezzino A., Barilaro D., Crupi V., Triscari M., (2005) *Chemical characterization and statistical multivariate analysis of ancient pottery from Messina, Catania, Lentini and Siracusa (Sicily)*. Archaeometry 47, 4, 745-762.
3. Barilaro D, V **Crupi**, D Majolino, V Venuti, G **Barone**, W Kockelmann (2007) *Neutrons as a probe of large volume specimens: the case of archaeological pottery findings*. J Archaeological Science, 34, 1148-1152
4. Barilaro D., V. Crupi, D. Majolino, V. Venuti, G. **Barone**, F. D'Acapito, F. Bardelli, F. Ginnici (2007) *Decorated pottery study: analysis of pigments by X-ray absorbance spectroscopy measurements* J of Applied Physics 101, 064909
5. **Barone G.**, Belfiore C.M, Mazzoleni P, Pezzino A, Viccaro M. (2010). *A volcanic temper based approach for provenance studies of archaeological ceramics from Southern Italy*. J Of Archaeological Science. 37, 713-726
6. **Barone G.**, V. Crupi, F. Longo, D. Majolino, P. Mazzoleni, D. Tanasi, V. Venuti, *FTIR spectroscopic analysis to study the firing processes of prehistoric ceramics*. Journal of Molecular Structure 993 (2011) 147-150

7. F. Bardelli, G. **Barone**, V. Crupi, F. Longo, D. Majolino, P. Mazzoleni, V. Venuti, (2011) *Combined non-destructive XRF and SR-XAS study of archaeological artefacts*, Anal Bioanal Chem 399:3147–3153
8. **Barone** G., P Mazzoleni, C Ingoglia, M G Vanaria *Archaeometric evidences of the 4th - 2nd century b.C. amphorae productions in north eastern Sicily*. J. Archaeol. Science 38 (2011) 3060-3071
9. **Barone** G., V. Crupi, D. Majolino, P. Mazzoleni, J. Teixeira, V. Venuti, A. Scandurra *Small Angle Neutron Scattering as fingerprinting of ancient potteries from Sicily (Southern Italy)*. 2011 Appl. Clay Science 54, 40-46
10. **Barone** G, P Mazzoleni, G Spagnolo, E Aquilia (2012) *The Transport Amphorae of Gela: A Multidisciplinary Study on Provenance and Technological Aspects*. J. Archaeological Sciences 39, 11- 22
11. Anania L, Badalà A, **Barone**, Belfiore, Calabrò, Mazzoleni, Pezzino *The stones in monumental masonry buildings of the “Val di Noto” area: New data on the relationships between petrographic characters and physical-mechanical properties*. Constr and Building Materials. 2012 , 33, 122-132
12. Barbera G, G **Barone**, V Crupi, F Longo, D Majolino, P Mazzoleni, G Sabatino, D Tanasi, V Venuti *Study of Late Roman and Byzantine glass by the combined use of analytical techniques* Journal of Non-Crystalline Solids 358 (2012) 1554–1561
13. Barbera G, G **Barone**, P Mazzoleni, A Scandurra *Laboratory measurement Ultrasound propagation during salt crystallization test: implication for the determination of limestone durability*. Const Building Materials. 36 (2012) 977–983
14. Bardelli F, **Barone** G, V Crupi, F Longo, G Maisano, D Majolino, P Mazzoleni, V Venuti *Fe speciation in ancient Attic pottery pigments: a non-destructive SR-XAS investigation 2012* J of Synchrotron Radiation 19, 782-788
15. **Barone** G., Mazzoleni P., Aquilia E. Barbera G. 2012 *The Hellenistic and Roman Syracuse (Sicily) fine pottery production explored by chemical and petrographic analysis* Archaeometry doi: 10.1111/j.1475-4754.2012.00727.x
16. Barbera G, **Barone** G, V Crupi, F Longo, G Maisano, D Majolino, P Mazzoleni, J Teixeira, V Venuti 2012 *Small angle neutron scattering study of ancient pottery from Syracuse (Sicily, Southern Italy)* J. archaeological Science 10.1016/j.jas.2012.09.021
17. Barbera G., **Barone** G., Crupi V., Longo F., Mazzoleni P., Majolino D., Venuti V. 2012 *Non-Destructive Analyses Of Carbonate Rocks: Applications And Potentiality For Museum Materials* X Ray spectrometry DOI 10.1002/xrs.2425
18. Bergamonti L, I Alfieri, A Lorenzi, A Montenero, G Predieri, G Barone, P Mazzoleni, P Lottici 2013 *Characterization and photocatalytic activity of TiO₂ nanoparticles on Modica and Comiso stones*: J. Sol-Gel Science and Technology