

Top-10 list of Publications by Giovanni Barreca

1. **Barreca Giovanni**, Felix Gross, Luciano Scarfi, Marco Aloisi, Carmelo Monaco, Sebastian Krustel. (2021). *The Strait of Messina: Seismotectonics and the source of the 1908 earthquake*. *Earth-Science Reviews*, 218 (2021) 103685. <https://doi.org/10.1016/j.earscirev.2021.103685>
2. Henriquet, M., Dominguez, S., **Barreca, G.**, Malavieille, J., Monaco, C. (2020). *Structural and tectono-stratigraphic review of the Sicilian orogen and new insights from analogue modelling*. *Earth Science Review*, 208, DOI: 10.1016/j.earscirev.2020.103257. ISSN: 00128252
3. **Barreca G.** Maesano F.E. (2012). *Restraining stepover deformation superimposed on a previous fold-and-thrust-belt: A case study from the Mt. Kumeta–Rocca Busambra ridges (western Sicily, Italy)*. *Journal of Geodynamics*, 55, 1-17 (2012) doi: 10.1016/j.jog.2011.10.007.
4. Marc-André Gutscher, Stephane Dominguez, Bernard Mercier de Lepinay, Luis Pinheiro, Flora Gallais, Nathalie Babonneau, Antonio Cattaneo, Yann LeFaou, **Giovanni Barreca**, Aaron Micallef, Marzia Rovere (2016). *Tectonic expression of an active slab-tear from high-resolution seismic and bathymetric data offshore Sicily (Ionian Sea)*. *Tectonics*, Vol. 34 DOI: 10.1002/2015TC003898.
5. **G. Barreca**, V. Bruno, F. Cultrera, M. Mattia, C. Monaco, L. Scarfi (2014). New insights in the geodynamics of the Lipari–Vulcano area (Aeolian Archipelago, southern Italy) from geological, geodetic and seismological data. *Journal of Geodynamics*, Vol.82 (2014), 150-167. <http://dx.doi.org/10.1016/j.jog.2014.07.003>.
6. **Barreca G.**, Scarfi L., Cannavò F., Koulakov I., Monaco C. (2016). *New structural and seismological evidence and interpretation of a lithospheric scale shear zone at the southern edge of the Ionian subduction system (central-eastern Sicily, Italy)*. *Tectonics*, vol. 35, 1489-1505. DOI: 10.1002/2015TC004057
7. **Barreca G.**, Branca S., Monaco C. (2018). *Three-dimensional modeling of Mount Etna volcano: volume assessment, trend of eruption rates and geodynamic significance*. *Tectonics*, 37 doi: 10.1002/2017TC004851
8. **Barreca G.**, Scarfi L., Gross F., Monaco C., De Guidi G. (2019). *Fault pattern and seismotectonic potential at the south-western edge of the Ionian Subduction system (southern Italy): new field and geophysical constraints*. *Tectonophysics*, Vol. 761 (2019) 31-45.
9. **G. Barreca**, S. Branca, R.A. Corsaro, L. Scarfi, F. Cannavò, M. Aloisi, C. Monaco, C. Faccenna (2020). *Slab Detachment, Mantle Flow, and Crustal Collision in Eastern Sicily (Southern Italy): Implications on Mount Etna Volcanism*. *Tectonics*, 39. DOI: 10.1029/2020TC006188
10. Aaron Micallef, **Giovanni Barreca**, Christian Hübscher, Angelo Camerlenghi, Paul Carling, Jose Maria Abril Hernandez, Raúl Periañez, Daniel Garcia-Castellanos, Jonathan Ford, Benedikt Haimmerl, Matthias Hartge, Jonas Preine & Antonio Caruso (2024). *Land-to-sea indicators of the Zanclean megaflood*. *Communications Earth & Environment* | (2024) 5:794, <https://doi.org/10.1038/s43247-024-01972-w>