# **Professional biography**

- 1993 PhD, Department of Geology, University of Palermo, Italy and Department of Geography, University of Heidelberg, Germany
- 1994 Postdoctoral Researcher, Risø National Laboratory, Denmark
- 1995-1997 Postdoctoral Researcher, Department of Geography, University of Cologne, Germany
- 1997-1999 Postdoctoral Researcher, MPI for Nuclear Physics, Heidelberg, Germany
- 1999-2003 Lecturer Department of Geography, University of Bonn, Germany
- 2003 2005 Research Associate, Department of Geography, University of Liverpool, UK
- 2005 2017 Lecturer/Senior Lecturer, School of Environmental Sciences, University of Liverpool, UK
- Since 2018 Research Associate School of Geology and Geography, University of Salzburg, Austria and School of Environmental Sciences, University of Liverpool, UK

# Research interests

- Quaternary geology and stratigraphy
- Shallow marine and terrestrial sediments
- Proxy records of sea-level change
- Geochronology
- Luminescence dating technique

### **Publications**

In total more than 80 publications; IS publications 65; citations 1687; H-index 23; ORCID ID: 0000-0003-1504-333x

### Some relevant publications

# 2021

**Mauz, B.**, Loïc Martin, Michael Discher, Chantal Tribolo, Sebastian Kreutzer, Chiara Bahl, Andreas Lang, Nobert Mercier, 2021. Technical note: On the reliability of laboratory beta-source calibration for luminescence dating. Geochronology 3, 371–381, https://doi.org/10.5194/gchron-3-371-2021.

**Mauz, B.**, Elmejdoub, N., 2021. A review of last interglacial sea-level proxies in the eastern Mediterranean coastal region. EarthArXiv, <a href="https://doi.org/10.5194/essd-2020-357">https://doi.org/10.5194/essd-2020-357</a>.

#### 2020

- Wang, F., Yongqiang Zong, **Mauz**, B., Jing Fang, Jianfen Li, Lizhu Tian, Yongsheng Chen, Zhiwen Shang, Xingyu Jiang, Giorgio Spada and Daniele Melini, 2020. Holocene sea-level change on the central coast Bohai Bay, China. Earth Surf. Dynam., https://doi.org/10.5194/esurf-8-679-2020
- Gouramanis C., Switzer A.D, Bristow C.S., Pham D.T., **Mauz B.**, Hoang Q. D., Doan L.D., Lee, Y.S., Soria J.L.A., Pile J., Ngo K.C.T., Nghiem, D., Sloss, C., 2020. Holocene evolution of the Chan May coastal embayment, central Vietnam: Changing coastal dynamics associated with decreasing rates of progradation possibly forced by mid- to late-Holocene sea-level changes. Geomorphology, https://doi.org/10.1016/j.geomorph.2020.107273.

### 2019

Kreutzer, S., **Mauz, B.**, Martin, L., Mercier, N., 2019. Dose Rate Modelling of Carbonate-Rich Samples - an Implementation of Carb in R. Ancient TL 37(2), 1-8.

## 2018

- Hodgson, D.M., Bernhardt, A., Clare, M.A., Da Silva, A.-C., Fosdick, J.C., **Mauz, B.,** Midtkandal, I., Owen, A. and Romans, B.W., 2018. Grand Challenges (and Great Opportunities) in Sedimentology, Stratigraphy, and Diagenesis Research. Front. Earth Sci. 6:173. doi: 10.3389/feart.2018.00173.
- Discher, M., Mauz, B., Martin, L., Durcan, J.A., King, G.E., Tsakalos, E., Christodoulakis, J. Lang, A., 2018. Calculating or simulating the dose rate? A comparison. Radiation Measurements 120, 202-208.
- Abdualhadi, S.A., **Mauz, B.**, Joss, S.D.T, Nolan, P., 2018. Detecting and quantifying uranium-series disequilibrium in natural samples for dosimetric dating applications. Radiation Measurements 114, 25-31.
- Chamberlain, E.L., Törnqvist, T.E., Shen, Z., **Mauz, B**. and Wallinga, J., 2018. Anatomy of Mississippi Delta growth and its implications for coastal restoration. Science Advances, 2018;4: eaar4740.
- Mauz, B., Shen, Z., Elmejdoub, N. and Spada, G., 2018. No evidence from the eastern Mediterranean for an MIS 5e double peak sea-level highstand. Quaternary Research 2018, 1-6.

#### 2015 and older

- Mauz, B., Vacchi, M, Green, A., Hoffmann, G. and Cooper, A, 2015. Beachrock. A tool for reconstructing relative sea level in the far-field. Marine Geology 362, 1-16.
- **Mauz, B.**, Ruggieri, G. and Spada, G., 2015. Terminal Antarctic melting inferred from a farfield coastal site. Quaternary Science Reviews 116, 1-11.
- Shen, Z., Torbjorn, T., **Mauz, B**., Chamberlain, E., Nijhuis, L.A., 2015. Episodic overbank deposition as a dominant mechanism of floodplain and delta-plain aggradation. Geology 43, 875-878.

- Mauz, B., Hijma, M., Amorosi, A., Porat, N., Gallili, E. and Bloemendal, J., 2013. Aeolian beach ridges and their significance for climate and sea level: concept and insight from the Levant coast (East Mediterranean). Earth-Science Reviews 121, 31-54.
- Mellett, C.L., Hodgson, D.H., Lang, A., **Mauz, B**., Selby, I. and Plater, A.J., 2012. Preservation of a drowned gravel barrier complex: A landscape evolution study from the north-eastern English Channel. Marine Geology 315-318, 115-131.
- Mauz, B., Fanelli, F, Elmejdoub, N. and Barbieri, R., 2012. Coastal response to climate change: Mediterranean shorelines during the last interglacial (MIS 5). Quaternary Science Reviews 54, 89-98.
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- Shen, Z. and **Mauz**, **B**., 2012. Optical dating of young deltaic deposits in the Mississippi Delta with a single aliquot method. Quaternary Geochronology 10, 110-116.
- Shen, Z.X., Törnqvist, T., Autin, W.J., Mateo, Z.R.P., Straub, K.M. and **Mauz, B**., 2012. Rapid and widespread response of the Lower Mississippi River to eustatic forcing during the last glacial-interglacial cycle. Bulletin of the Geological Society of America, 124, 690-704.
- Mellet, C.L., **Mauz**, **B**., Hodgson, D.H., Plater, A.J. and Lang, A., 2012. Optical dating of drowned landscapes: a case study from the English Channel. Quaternary Geochronology 10, 201-208.
- Shen, Z., **Mauz**, **B**. and Lang, A., 2011. Source trap characterization of thermally transferred OSL in quartz. J. Phys D: Applied Physics 44, 295405.
- Shen, Z. and Mauz, B., 2011. Estimating the equivalent dose of late Pleistocene fine silt quartz from the Lower Mississippi Valley using a common OSL growth curve. Radiation Measurements 46, 649-654.
- Elmejdoub, N, **Mauz**, **B**. and Jedoui, Y. 2010. Sea level and climatic controls on the late Pleistocene coastal aeolianites in the Cap Bon Peninsula, North-Eastern Tunisia. Boreas, 40, 198-207.
- **Mauz, B.**, Baeteman, C., Bungenstock, F. and Plater, A.J., 2010. Optical dating of tidal sediments: potentials and limits inferred from the North Sea coast. Quaternary Geochronology 5, 667-678.
- Thrasher, I.M., **Mauz, B**., Chiverrell, R.C. and Lang, A., 2009. Luminescence dating of glaciofluvial deposits: A review. Earth-Science Reviews 97, 133–146.
- Nathan, R. and **Mauz, B.**, 2008. On the dose rate estimate of carbonate-rich sediments for trapped charge dating. Radiation Measurements 43, 14-25.
- **Mauz,** B. and Bungenstock, F., 2007. How to reconstruct trends of late Holocene relative sea level: A new approach using tidal flat clastic sediments and optical dating. Marine Geology 237, 225-237.

- **Mauz, B.**, Packman, S. and Lang, A., 2006. The alpha efficiency of silt-sized quartz: New data obtained by single and multiple aliquot protocols. Ancient TL 24, 47-52.
- Poolton, N.R.J., **Mauz, B.**, Lang, A., Jain, M. and Malins, A.E.R., 2006. Optical excitation processes in the near band-edge region of KAlSi3O8 and NaAlSi3O8 feldspar. Radiation Measurements 41, 542-548.