

Curriculum Vitae

Evangelos

TSAKALOS

Professional Experience

Current position

01/06/2020-Date

External Research Associate

Fundamental research in luminescence physics and dosimetry.
Luminescence Dating Laboratory, Institute of Nanoscience and Nanotechnology,
National Centre for Scientific Research “Demokritos”, Athens, Greece.

Previous positions

01/06/2017-31/05/2020

Research Fellow (Marie Curie-IF)

Dating past seismic events based on the use of luminescence techniques and Electron Spin Resonance (ESR).

- Department of Geophysics, Division of Earth and Planetary Sciences Graduate School of Science Kyoto University, Kyoto, Japan. Luminescence Dating Laboratory, Institute of Nanoscience and Nanotechnology, National Centre for Scientific Research “Demokritos”, Athens, Greece.

01/08/2016-01/05/2017

Research Associate

Research on sea-land interactions, geomorphological investigations, reconstruction of ancient landscape, micropalaeontology, geochemistry, and ¹⁴C.

Laboratory of the Palaeoenvironment, Institute of Materials Science, National Centre for Scientific Research “Demokritos”, Athens, Greece.

05/03/2015-04/05/2016

Research Associate

Study of the palaeoclimate, palaeoenvironmental reconstruction and paleogeographic evolution of coastal areas in Central Greece using luminescence dating techniques, geochemical and micropalaeontological analysis.

Hellenic Centre for Marine Research (H.C.M.R.), Athens, Greece.

06/10/2011-05/10/2014

Early Stage Researcher (Marie Curie-ITN, ESR)

Palaeoenvironmental and geoarchaeological research at selected sites of SE Cyprus using luminescence dating techniques, including basic research for further development of the technique and its applications.

Luminescence Dating Laboratory, Institute of Nanoscience and Nanotechnology, National Centre for Scientific Research “Demokritos”, Athens, Greece.

Education

06/10/2011-22/07/2016

PhD in Geology-Geochronology, Faculty of Science, Department of Geology, University of Patras, Patra, Greece.

Thesis title: Luminescence dating and the Palaeoenvironment of SE Cyprus

03/01/2009-18/06/2010

MSc in Environmental Management and Sustainability, Faculty of Science and Technology, Department of Geography and the Environment, Edinburgh Napier University, Edinburgh, UK.

01/09/2005-01/07/2008

BSc (Hons) in Environmental Sciences, Faculty Physical Sciences, Department of Environment and Technology, University of Brighton, Brighton, UK.

01/09/2004-01/07/2005

Cert. of Higher Education in Environmental Management, Department of Sciences, University of Salford, UK.

Peer Reviewed Publications

- **Tsakalos, E.**, Efstratiou, N., Bassiakos, Y., Kazantzaki, M., Filippaki, E., 2021. Early Cypriot prehistory: on the traces of the last hunters and gatherers in the island-preliminary results of luminescence dating. *Current anthropology*, 62 (4), 412-425. <https://doi.org/10.1086/716100>
- **Tsakalos, E.**, Lin, A., Kazantzaki, M., Bassiakos, Y., Nishiwaki, T., Filippaki, E., 2020. Absolute dating of past seismic events using the OSL technique on fault gouge material-A case study of the Nojima Fault Zone, SW Japan. *Journal of Geophysical Research: Solid Earth*, 125, e2019JB019257. <https://doi.org/10.1029/2019JB019257>
- Kazantzaki, M., **Tsakalos, E.**, Rondoyanni, Th., Bassiakos, Y., Filippaki, E., 2019. Middle Pleistocene Luminescence Ages on Coastal Sediments from North Evoikos Gulf: Overcoming Quartz Saturation by Elevated-temperature Infrared Stimulated Luminescence (IRSL) from Feldspars. *Bulletin of the Geological Society of Greece*, Special Publication, 7, 96-97.
- **Tsakalos, E.**, Lin, A., Kazantzaki, M., Bassiakos, Y., Filippaki, E., Nishiwaki, T., 2019. Absolute Dating of Neotectonic Events: A Feasibility Study on Fault Gouge from the Nojima and Asano Faults, NW Awaji Island,

Japan. Bulletin of the Geological Society of Greece, Special Publication, 7, 171-172.

- **Tsakalos, E.**, Kazantzaki, M., Bassiakos, Y., Filippaki, E., 2019. High Resolution Stratigraphy and Evolution of Sperchios Delta Plain-Greece Based on Optical Dating of Quartz and Feldspar. Bulletin of the Geological Society of Greece, Special Publication, 7, 94-95.
- **Tsakalos, E.**, Dimitriou, E., Kazantzaki, M., Anagnostou Ch., Christodoulakis J., Filippaki E., 2018. Testing optically stimulated luminescence dating on sand-sized quartz of deltaic deposits from Sperchios delta plain, Greece. Journal of Palaeogeography, 7, 130-145, <https://doi.org/10.1016/j.jop.2018.01.001>.
- **Tsakalos, E.**, Kazantzaki, M., Lin, A., Bassiakos, Y., Filippaki E., Takafumi, N., 2018. Seismic Moment and Recurrence: Microstructural and mineralogical characterization of rocks in carbonate fault zones and their potential for luminescence and ESR dating. Journal of Structural Geology, 117, 186-202, <https://doi.org/10.1016/j.jsg.2018.09.018>
- 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, <https://doi.org/10.1016/j.radmeas.2018.09.006>
- **Tsakalos, E.**, Athanassas, C., Tsipas, P., Triantaphyllou, M., Geraga, M., Papatheodorou, G., Filippaki E., Christodoulakis, J., Kazantzaki, M., 2016. Luminescence geochronology and paleoenvironmental implications of coastal deposits of southeast Cyprus, Journal of Archaeological and Anthropological Sciences, 10, 41-60, <https://doi.org/10.1007/s12520-016-0339-7>.
- **Tsakalos, E.**, Christodoulakis, J., Charalambous, L., 2016. Dose Rate calculator (DRc) - A Java application for dose rate and age determination based on luminescence and ESR dating, Archaeometry, 58, 347-352, <https://doi.org/10.1111/arcm.12162>
- **Tsakalos, E.**, 2016. Geochronology and exoscopy of quartz grains in environmental determination of coastal aeolianites in SE Cyprus, Journal of Archaeological Science: Reports, 7, 679-686, <https://doi.org/10.1016/j.jasrep.2015.11.031>
- **Tsakalos, E.**, Athanassas, C., Bassiakos, Y., 2016. Luminescence dating and quartz grain surface features of aeolian sediments of a site in southeast Cyprus. 6th Symposium of the Hellenic Society for Archaeometry. Athens, Greece. British Archaeological Reports, BAR S2780 Proceedings, 29, 201-206.
- Kazantzaki, M., Athanassas, C., Bassiakos, Y., **Tsakalos E.**, 2016. Luminescence dating of Quaternary Coastal deposits of Evoikos Gulf (central Greece). 6th Symposium of the Hellenic Society for Archaeometry. Athens, Greece. British Archaeological Reports, BAR S2780 Proceedings, 207-215.