

2022

Lomax, J., Wolf, D., Meliksetian, K., Wolpert, T., Sahakyan, L., Hovakimyan, H., Faust, D., Fuchs, M. (2022). Testing post-IR-IRSL dating on Armenian loess-palaeosol sections against independent age control. *Quaternary Geochronology* 69, 101265.2021.

2021

Lomax, J., Wolf, D., Wolpert, U. T., Sahakyan, L., Hovakimyan, H., Faust, D., & Fuchs, M. (2021). Establishing a luminescence-based chronostratigraphy for the last glacial-interglacial cycle of the loess-palaeosol sequence Achajur (Armenia). *Frontiers in Earth Science*, 9.

Kolb, T., Tudyka, K., Kadereit, A., **Lomax, J.**, Poręba, G., Zander, A., Zipf, L., & Fuchs, M. (2021). The μ Dose-system: determination of environmental dose rates by combined alpha and beta counting – performance tests and practical experiences. *GChron*, doi.org/10.5194/gchron-2021-20.

Scherer, S., Deckers, K., Dietel, J., Fuchs, M.C., Henkner, J., Höpfer, B., Junge, A., Kandeler, E., Lehndorff, E., Leinweber, P., **Lomax, J.**, Miera, J.J., Poll, C., Toffolo, M.B., Knopf, T., Scholten, T., & Kühn, P. (2021). What's in a colluvial deposit? Perspectives from archaeopedology. *Catena* 198, 105040.

Scherer, S., Höpfer, B., Deckers, K., Fischer, E., Fuchs, M., Kandeler, E., Lehndorff, E., **Lomax, J.**, Marhan, S., Marinova, E., Lechterbeck, J., Meister, J., Poll, C., Rahimova, H., Rösch, M., Wroth, K., Zastrow, J., Knopf, T., Scholten, T., & Kühn, P. (2021). Middle Bronze Age land use practices in the north-western Alpine foreland – A multi-proxy study of colluvial deposits, archaeological features and peat bogs. *SOIL* 7, 269–304.

2020

Tudyka, K., Bluszcz, A., Poręba, G., Miłosz, S., Adamiec, G., Kolarczyk, A., Kolb, T.E., **Lomax, J.**, & Fuchs, M. (2020). Increased dose rate precision in combined α and β counting in the μ Dose system - a probabilistic approach to data analysis. *Radiation Measurements* 134, 106310.

Rousseau, D.-D., Antoine, P., Boers, N., Lagroix, F., Ghil, M., Lomax, J., Fuchs, M., Debret, M., Hatté, C., Moine, O., Gauthier, C., Jordanova, D., Jordanova, N. 2020. DO-like events of the penultimate climate cycle: the loess point of view. *Climate of the Past*. doi.org/10.5194/cp-2019-122.

2019

Fuchs, M., & **Lomax, J.** (2019). Stone pavements in arid environments: Reasons for De overdispersion and grain-size dependent OSL ages. *Quaternary Geochronology* 49, 191-198.

Antoine, P., Lagroix, F., Jordanova, D., Jordanova, N., **Lomax, J.**, Fuchs, M., Debret, M., Rousseau, D., Hatté, C., Gauthier, C., Moine, O., Taylor, S.N., Till, J.L., & Coutard, S. (2019). A remarkable Late Saalian (MIS 6) loess (dust) accumulation in the Lower Danube at Harletz (Bulgaria). *Quaternary Science Reviews* 207, 80-100.

Wacha, L., Montanari, A., **Lomax, J.**, Fiebig, M., Lüthgens, C., Korbar, T., & Koeberl, C. (2019). Last Glacial Maximum giant sand dunes on the island of Vis, Croatia. 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco. *The Geological Society of America, Special Paper* 542, 459-470.

Montanari, A., Lüthgens, C., **Lomax, J.**, Mainiero, M., Mariani, S., & Fiebig, M. (2019). Luminescence geochronology of Pleistocene slack-water deposits in the Frasassi hypogenic cave system, Italy. 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco. *The Geological Society of America, Special Paper* 542, 459-470. *The Geological Society of America, Special Paper* 542, 411-428.

2018

Lomax, J., Fuchs, M., Antoine, P., Rousseau, D.-D., Lagroix, F., et al.. (2018). A luminescence-based chronology for the Harletz loess sequence, Bulgaria. *Boreas* 48, 179-194. DOI: 10.1111/bor.12348.

Lomax, J., Steup, R., Shumilovskikh, L., Hoselmann, C., Sauer, D., v. Diedenhoven, V., Fuchs, M. (2018): Field Trip B (27 September 2018): Quaternary environments of Giessen and its surrounding. *Deuqua Spec. Public.* 1, 15-28.

Junge, A., **Lomax, J.**, Shahack-Gross, R., Finkelstein, I., Fuchs, M.: Chronology of an ancient water reservoir and the history of human activity in the Negev Highlands, Israel. *Geoarchaeology* 33, 695–707.

Hintersberger, E., Decker, K., **Lomax, J.**, Lüthgens, C. (2018): Implications from palaeoseismological investigations at the Markgrafneusiedl Fault (Vienna Basin, Austria) for seismic hazard assessment. *Natural Hazards and Earth System Sciences* 18, 531-553.

Meyer-Heintze, S., Sprafke, T., Schulte, P., Terhorst, B., **Lomax, J.**, Fuchs, M., Lehmkuhl, F., Neugebauer-Maresch, C., Einwögerer, T., Händel, M., Simon, U., Solis-Castillo, B. (2018): The MIS 3/2 transition in a new loess profile at Krems-Wachtberg East – A multi-methodological approach. *Quaternary International* 464, 370-385.

2017

Salcher, B., Frank-Fellner, C., **Lomax, J.**, Preusser, F., Ottner, F., Scholger, R., Wagnreich, M. (2017): Middle to Late Pleistocene multi-proxy record of environmental response to climate change from the Vienna Basin, Central Europe (Austria). *Quaternary Science Reviews* 173, 193-210.

Weissl, M., Hintersberger, E., **Lomax, J.**, Lüthgens, C., Decker, K. (2017): Active tectonics and geomorphology of the Gaenserndorf Terrace in the Central Vienna Basin (Austria). *Quaternary International* 451, 209-222.

Dunseth, Z., Junge, A., **Lomax, J.**, Boaretto, E., Shahack-Gross, R. (2017): Dating archaeological sites in an arid environment: A multi-method case study in the Negev Highlands, Israel. *Journal of Arid Environments* 144, 156-169

2016

Dietze, M., Dietze, E., **Lomax, J.**, Fuchs, M., Kleber, A., Wells, S. (2016): Environmental history recorded in aeolian deposits under stone pavements, Mojave Desert, USA. *Quaternary Research*, doi.org/10.1016/j.yqres.2015.11.007

Junge, A., **Lomax, J.**, Shahack-Gross, R., Dunseth, Z., Finkelstein, I., Fuchs, M. (2016): OSL Age Determination of Archaeological Stone Structures Using Trapped Aeolian Sediments: A Case Study from the Negev Highlands, Israel. *Geoarchaeology* 31, 550-563.

2015

Lomax, J., Kreutzer, S., Mittelstraß, D., Fuchs, M.: OSL, TL and IRSL emission spectra of sedimentary quartz and feldspar samples. *Radiation Measurements* doi.org/10.1016/j.radmeas.2015.02.018

Fuchs, M., Dietze, M., Al-Qudah, K., **Lomax, J.**: Dating desert pavements – First results from a challenging environmental archive. *Quaternary Geochronology*, doi.org/10.1016/j.quageo.2015.01.001

Bickel, L., Lüthgens, C., **Lomax, J.**, Fiebig, M. (2015): Luminescence dating of glaciofluvial deposits linked to the penultimate glaciation in the Eastern Alps. *Quaternary International* 357, 110-124.

Bickel, L., Lüthgens, C., **Lomax, J.**, Fiebig, M. (2015). The timing of the penultimate glaciation in the northern Alpine Foreland: new insights from luminescence dating. *Proceedings of the Geologists' Association*. doi:10.1016/j.pgeola.2015.08.002

Schielein, P., Schellmann, G., **Lomax, J.**, Preusser, F., & Fiebig, M. (2015). Chronostratigraphy of the Hochterrassen in the lower Lech valley (Northern Alpine Foreland). – *E&G Quaternary Science Journal*, 64 (1): 15–28. DOI: 10.3285/eg.64.1.02

2014

Lomax, J., Fuchs, M., Preusser, F., Fiebig, M. (2014): Luminescence based loess chronostratigraphy of the Upper Palaeolithic site Krems-Wachtberg, Austria. *Quaternary International* 351, 88-97.

Lomax, J., Kreutzer, S., Fuchs, M. (2014): Performance tests using the Lexsyg luminescence reader. *Geochronometria* 41(4), 327-333. 10.2478/s13386-013-0174-x.

Dreibrodt, S., Lubos, C., **Lomax, J.**, Sipos, G., Schroedter, T., Nelle, O. (2014): Holocene landscape dynamics at the tell Arslantepe, Malatya, Turkey – Soil erosion, buried soils and settlement layers, slope and river activity in a middle Euphrates catchment. *The Holocene* 24 (10), 1351-1368.

Fiebig, M., Herbst, P., Drescher-Schneider, R., Lüthgens, C., **Lomax, J.**, Doppler, G. (2014): Some remarks about a new Last Glacial record from the western Salzach foreland glacier basin (Southern Germany). *Quaternary International* 328-329, 107-119.

2013

Schielein, P. & **Lomax, J.** (2013): The effect of fluvial environments on sediment bleaching and Holocene luminescence ages – A case study from the German Alpine Foreland. *Geochronometria* 40 (4), 283-293.

Fitzsimmons, K., Cohen, T., Hesse, P., Jansen, J., Nanson, G., May, J.-H., Barrows, T., Haberlah, D., Hilgers, A., Kelly, T., Larsen, J., **Lomax, J.**, Treble, P. (2013): Late Quaternary palaeoenvironmental change in the Australian drylands: a synthesis. *Quaternary Science Reviews* 74, 78-96.

Schrödter, T., Dreibrodt, S., Hofmann, R., **Lomax, J.**, Müller, J., Nelle, O. (2013): Interdisciplinary interpretation of challenging archives: Charcoal assemblages in Drina Valley alluvial and colluvial sediments (Jagnilo, Bosnia and Herzegovina). *Quaternary International* 289, 36-45.

2012

Homolova, D., **Lomax, J.**, Spacek, P., Decker, K. (2012): Pleistocene terraces of the Vltava River in the Budějovice Basin (Southern Bohemian Massif): new insights into sedimentary history constrained by luminescence data. *Geomorphology* 161–162, 58-72.

2011

Lomax, J., Hilgers, A., Radtke, U. (2011): Palaeoenvironmental change recorded in the palaeodune fields of the western Murray Basin, South Australia – New data from single grain OSL-dating. *Quaternary Science Reviews* 30 (5-6), 723–736.

Schielein, P., Schellmann, G., **Lomax, J.** (2011): Stratigraphy of Late Quaternary fluvial terraces at the confluence of the Lech and Danube valleys. *Quaternary Science Journal* 60 (4), 414–424.

2010

S. Dreibrodt, **J. Lomax**, O. Nelle, C. Lubos, P. Fischer, A. Mitosov, S. Reiss, U. Radtke, M. Nadeau, P. M. Grootes, H. Bork (2010): Are mid-latitude slopes sensitive to climatic oscillations? Implications from an Early Holocene sequence of slope deposits and buried soils from eastern Germany. *Geomorphology* 122, 351-369.

2009

Brunotte, E., Maurer, B., Fischer, P., **Lomax, J.**, Sander, H. (2009). A sequence of fluvial and aeolian deposits (desert loess) and palaeosoils covering the last 60 ka in the Opuwo basin (Kaokoland/Kunene Region, Namibia) based on luminescence dating. *Quaternary International* 196, 71-85.

Radtke, U., Hilgers, A., Hülle, D., **Lomax, J.** (2009): Neue Methoden für alten Sand - Einsatz der Lumineszenz- und Elektronenspinresonanz-Datierung zur Rekonstruktion der Landschaftsgeschichte in Trockengebieten. *Nova Acta Leopoldina*, 108, 373, 243-259; ISSN 0369-5034.

2008

Beerten, K., Rittner, S., **Lomax, J.**, Radtke, U. (2008). Dose recovery tests using Ti-related ESR signals in quartz: First results. *Quaternary Geochronology* 3, 143-149.

2007

Lomax, J., Hilgers, A., Twidale, C.R., Bourne, J.A., Radtke, U. (2007). Treatment of broad palaeodose distributions in OSL dating of dune sands from the western Murray Basin, South Australia. *Quaternary Geochronology* 2, 51-56.

2006

Beerten, K., **Lomax, J.**, Clémer, K., Stesmans, A., Radtke, U. (2006). On the use of Ti centres for estimating burial ages of Pleistocene aeolian quartz: Multiple grain data from Australia. *Quaternary Geochronology* 1, 151-158.

Eitel, B., Kadereit, A., Blümel, W.-D., Hüser, K., **Lomax, J.**, Hilgers, A. (2006). Environmental changes at the eastern Namib Desert margin before and after the Last Glacial Maximum: New evidence from fluvial

deposits in the upper Hoanib River catchment, northwestern Namibia. *Palaeogeography, Palaeoclimatology, Palaeoecology* 234, 201-222.

2003

Lomax, J., Hilgers, A., Wopfner, H., Grün, R., Twidale, C.R., Radtke, U. (2003). The onset of dune formation in the Strzelecki Desert, South Australia. *Quaternary Science Reviews* 22, 1067-1076.