

Bibliography

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Various geological applications

- aeolian

- Buró, B., Négyesi, G., Varga, T., Sipos, G., Filyó, D., Jull, A.J.T., Molnár, M., 2022. Soil organic carbon dating of paleosoils of alluvial fans in a blown sand area (Nyírség, Hungary). Radiocarbon 64, 1-19, <http://doi.org/10.1017/RDC.2022.5>
- Fernández-López de Pablo, J., Polo-Díaz, A., Ferrer-García, C., Poch, R.M., 2023. Heinrich Stadial 1 continental sand dunes and Middle to Late Holocene paleosol sequences in SE Iberia: Implications for human occupation and site formation processes. CATENA 232, 107447, <http://doi.org/10.1016/j.catena.2023.107447>
- Forman, S.L., Wu, Z., Wiest, L., Marin, L., Mayhack, C., 2023. Late Quaternary fluvial and aeolian depositional environments for the western Red River, Southern Great Plains, USA. Quaternary Research 115, 3-24, <http://doi.org/10.1017/qua.2023.15>
- Helm, C.W., Carr, A.S., Cawthra, H.C., De Vynck, J.C., Dixon, M.G., Gräbe, P.-J., Thesen, G.H.H., Venter, J.A., 2023. Tracking the extinct giant Cape zebra (*Equus capensis*) on the Cape south coast of South Africa. Quaternary Research 114, 178-190, <http://doi.org/10.1017/qua.2023.1>
- Hu, G., Hu, J., Yu, L., Yang, L., Liu, X., Xiao, F., Dong, Z., 2023. Holocene aeolian activity triggered by climate change and endorheic-exorheic drainage transition in the Headwater Region of the Yellow River, Tibetan Plateau. Geomorphology 441, 108890, <http://doi.org/10.1016/j.geomorph.2023.108890>
- Li, Y., Han, L., Li, X., 2024. Positive correlation between dust activity and humidity in arid Central Asia during the Holocene. Quaternary Science Reviews 324, 108442, <http://doi.org/10.1016/j.quascirev.2023.108442>
- Liu, B., Zhao, H., Yang, F., Liang, A., Sun, A., Niu, Q., Li, S., 2023. A new aeolian activity proxy based on analysis of the grain size characteristics of surface soils across the Tengger Desert, northwest China, and its application to a Quaternary aeolian succession. Palaeogeography, Palaeoclimatology, Palaeoecology 622, 111594, <http://doi.org/10.1016/j.palaeo.2023.111594>
- Mueller, D., Raith, K., Bretzke, K., Fülling, A., Parker, A.G., Parton, A., Preston, G.W., Jasim, S., Yousif, E., Preusser, F., 2023. Luminescence chronology of fluvial and aeolian deposits from the Emirate of Sharjah, UAE. Quaternary Research 112, 111-127, <http://doi.org/10.1017/qua.2022.51>
- Song, H., Yang, X., Preusser, F., Fülling, A., Chen, B., 2023. Paleoenvironmental changes in the eastern Kumtag Desert, northwestern China since the late Pleistocene. Quaternary Research 116, 133-147, <http://doi.org/10.1017/qua.2023.38>
- Sweeney, M.R., McDonald, E.V., Chabela, L.P., Hanson, P.R., 2020. The role of eolian-fluvial interactions and dune dams in landscape change, late Pleistocene–Holocene, Mojave Desert, USA. GSA Bulletin 132, 2318-2332, <http://doi.org/10.1130/B35434.1>
- Woywitka, R., Froese, D., Lamothe, M., Wolfe, S., 2022. Late Pleistocene aeolian deposition and human occupation on the eastern edge of the deglacial corridor, northeastern Alberta, Canada. Quaternary Research 110, 100-113, <http://doi.org/10.1017/qua.2022.14>

- cave

- Fusco, D.A., Arnold, L.J., Gully, G.A., Levchenko, V.A., Jacobsen, G.E., Prideaux, G.J., 2023. Revisiting the late Quaternary fossiliferous infills of Cathedral Cave, Wellington Caves (central eastern New South Wales, Australia). Journal of Quaternary Science 38, 505-525, <http://doi.org/10.1002/jqs.3497>
- Hu, Y., Zhang, J., Lu, H., Hou, Y., Huang, W., Li, B., 2023. New chronology of the deposits from the inner chambers of the Guanyindong cave, southwestern China. Journal of Archaeological Science 159, 105872, <http://doi.org/10.1016/j.jas.2023.105872>
- Pawełczyk, F., Bolik, A., Błachut, B., Kamińska, A., Opala-Owczarek, M., Malik, I., Wojcik, M., Zakrzewska, Z., Pawlak, Z., Poręba, G., 2023. Development of chronology for historical mining shaft remains in the vicinity of Tarnowskie Góry based on radiocarbon, luminescence and dendrochronological dating. Geochronometria 50, 81-90, <http://doi.org/10.2478/geochr-2023-0004>

- coastal

- An, Y., Feng, X., Liu, J., Saito, Y., Qiu, J., Zhang, X., Wang, H., Chen, L., 2023. Development of a Middle–Late Holocene subaqueous clinoform in the northern Jiangsu coastal zone, western South Yellow Sea. *Geomorphology* 439, 108853, <http://doi.org/10.1016/j.geomorph.2023.108853>
- Arce Chamorro, C., Vidal Romani, J.R., Grandal d'Anglade, A., Sanjurjo Sánchez, J., 2023. Aeolization on the Atlantic coast of Galicia (NW Spain) from the end of the last glacial period to the present day: Chronology, origin and evolution of coastal dunes linked to sea-level oscillations. *Earth Surface Processes and Landforms* 48, 198–214, <http://doi.org/10.1002/esp.5481>
- Boyd, S.L., Kinnaird, T.C., Srivastava, A., Whittaker, J.E., Bates, C.R., 2022. Investigation of coastal environmental change at Ruddons Point, Fife, SE Scotland. *Scottish Journal of Geology* 58, sjg2022-2005, <http://doi.org/10.1144/sjg2022-005>
- Ellerton, D., Rittenour, T.M., Shulmeister, J., Roberts, A.P., Miot da Silva, G., Gontz, A., Hesp, P.A., Moss, P., Patton, N., Santini, T., Welsh, K., Zhao, X., 2022. Fraser Island (K'gari) and initiation of the Great Barrier Reef linked by Middle Pleistocene sea-level change. *Nature Geoscience* 15, 1017–1026, <http://doi.org/10.1038/s41561-022-01062-6>
- Helm, C.W., Carr, A.S., Cawthra, H.C., De Vynck, J.C., Dixon, M.G., Lockley, M.G., Stear, W., Venter, J.A., 2023. Large Pleistocene tortoise tracks on the Cape south coast of South Africa. *Quaternary Research* 112, 93–110, <http://doi.org/10.1017/qua.2022.50>
- Kluesner, J.W., Johnson, S.Y., Nishenko, S.P., Medri, E., Simms, A.R., Greene, H.G., Gray, H.J., Mahan, S.A., Padgett, J.S., Kroczky, E.T., Brothers, D.S., Conrad, J.E., 2023. High-resolution geophysical and geochronological analysis of a relict shoreface deposit offshore central California: Implications for slip rate along the Hosgri fault. *Geosphere* 19, 1788–1811, <http://doi.org/10.1130/GES02657.1>
- Leknettip, S., Chawchai, S., Choowong, M., Mueller, D., Fülling, A., Preusser, F., 2023. Sand ridges from the coastal zone of southern Thailand reflect late quaternary sea-level history and environmental conditions in Sundaland. *Quaternary Science Reviews* 316, 108264, <http://doi.org/10.1016/j.quascirev.2023.108264>
- Neto de Carvalho, C., Belo, J., Figueiredo, S., Cunha, P.P., Muñiz, F., Belaústegui, Z., Cachão, M., Rodriguez-Vidal, J., Cáceres, L.M., Baucon, A., Murray, A.S., Buylaert, J.-P., Zhang, Y., Ferreira, C., Toscano, A., Gómez, P., Ramírez, S., Finlayson, G., Finlayson, S., Finlayson, C., 2023. Coastal raptors and raiders: New bird tracks in the Pleistocene of SW Iberian Peninsula. *Quaternary Science Reviews* 313, 108185, <http://doi.org/10.1016/j.quascirev.2023.108185>
- Oliver, T.S.N., Owers, C.J., Tamura, T., van Bracht, D., 2023. Holocene estuary infill leads to coastal barrier initiation from fluvial sand supply in southeastern Australia. *The Holocene* 33, 1489–1503, <http://doi.org/10.1177/09596836231197744>
- Prasad, P., Loveson, V.J., Kumar, V., Shukla, A.D., Chandra, P., Verma, S., Yadav, R., Magotra, R., Tirodkar, G.M., 2023. Reconstruction of Holocene relative sea-level from beach ridges of the central west coast of India using GPR and OSL dating. *Geomorphology* 442, 108914, <http://doi.org/10.1016/j.geomorph.2023.108914>
- Santos, N.B., Lavina, E.L.C., Paim, P.S.G., Tatumi, S.H., Yee, M., dos Santos, V.O., Kern, H.P., 2022. Relative sea level and wave energy changes recorded in a micro-tidal barrier in southern Brazil. *Quaternary Research* 110, 13–25, <http://doi.org/10.1017/qua.2022.23>
- Sechi, D., Andreucci, S., Cocco, F., Pascucci, V., 2023. Stratigraphy and chronology of the Cala Mosca site, SW Sardinia (Italy). *Quaternary Research* 112, 160–179, <http://doi.org/10.1017/qua.2022.45>
- Sydon, P., Uścinowicz, S., 2023. Driving forces and determinants of barrier coast evolution in the Holocene observed on the southern coast of the Baltic Sea. *The Holocene* 33, 759–780, <http://doi.org/10.1177/09596836231163507>
- Ward, I., Healthy Country Program Team, T., Guilfoyle, D., O'Donnell, A., Byrne, C., Macphail, M., Hopper, S.D., 2023. Remnant peat deposit provides clues to the inundated cultural landscapes of Kepa Kurl, southwestern Australia. *The Holocene* 33, 671–684, <http://doi.org/10.1177/09596836231157067>

- earthquake (and fault related)

- DuRoss, C.B., Briggs, R.W., Gold, R.D., Hatem, A.E., Elliott, A.J., Delano, J., Medina-Cascales, I., Gray, H.J., Mahan, S.A., Nicovich, S.R., Lifton, Z.M., Kleber, E., McDonald, G., Hiscock, A., Bunds, M., Reitman, N.G., 2022. How similar was the 1983 Mw 6.9 Borah Peak earthquake rupture to its surface-faulting predecessors along the northern Lost River fault zone (Idaho, USA)? *GSA Bulletin* 134, 2767–2789, <http://doi.org/10.1130/B36144.1>

- Geçkin, B.Ş., Sözbilir, H., Özkaymak, Ç., Softa, M., Spencer, J.Q.G., Şahiner, E., Meriç, N., Deliormanlı, A.H., 2022. Evidence of surface rupture associated with historical earthquakes on the Gülbahçe Fault Zone (İzmir, Türkiye) and its application for determination of the surface fault-rupture hazard zone. *Natural Hazards* 114, 2189-2218, <http://doi.org/10.1007/s11069-022-05467-9>
- Hu, G., Shao, Y., Liu, X., Zheng, W., Yao, Y., 2023. Paleoseismic evolution of the central section of the Serteng Shan fault at the northern Ordos Block (North China) since the Late Pleistocene. *International Geology Review* 65, 3272-3285, <http://doi.org/10.1080/00206814.2023.2180778>
- Kelty, C., Onderdonk, N., 2022. Episodic Deformation and Topographic Development Along the Santa Ynez River Fault: A Blind Thrust in the Western Transverse Ranges of California. *Tectonics* 41, e2022TC007320, <http://doi.org/10.1029/2022TC007320>
- Kluesner, J.W., Johnson, S.Y., Nishenko, S.P., Medri, E., Simms, A.R., Greene, H.G., Gray, H.J., Mahan, S.A., Padgett, J.S., Krolczyk, E.T., Brothers, D.S., Conrad, J.E., 2023. High-resolution geophysical and geochronological analysis of a relict shoreface deposit offshore central California: Implications for slip rate along the Hosgri fault. *Geosphere* 19, 1788-1811, <http://doi.org/10.1130/GES02657.1>
- Liu, C.-R., Tian, Y.-Y., Ji, H., Ma, X., Wei, C.-Y., Dang, J.-X., Yin, G.-M., Zhou, Y.-S., Yuan, R.-M., 2023. Chronology analysis of huge landslide based on ESR dating materials on sliding face in carbonate areas of south eastern Tibet. *Quaternary Geochronology* 76, 101442, <http://doi.org/10.1016/j.quageo.2023.101442>
- Luo, M., Chen, J., Owen, L.A., Qin, J., Yin, J., Yang, H., Liu, J., Gong, Z., Luo, J., 2022. A novel approach for reconstructing slip histories for bedrock fault scarps using rock surface luminescence dating. *Geophysical Research Letters* 49, e2022GL099526, <http://doi.org/10.1029/2022GL099526>
- Müller, K., Polom, U., Winsemann, J., Steffen, H., Tsukamoto, S., Günther, T., Igel, J., Spies, T., Lege, T., Frechen, M., Franzke, H.-J., Brandes, C., 2020. Structural style and neotectonic activity along the Harz Boundary Fault, northern Germany: a multimethod approach integrating geophysics, outcrop data and numerical simulations. *International Journal of Earth Sciences* 109, 1811-1835, <http://doi.org/10.1007/s00531-020-01874-0>
- Price, A.C., Woolery, E.W., Counts, R.C., Van Arsdale, R.B., Larsen, D., Mahan, S.A., Beck, E.G., 2019. Quaternary displacement on the Joiner Ridge Fault, Eastern Arkansas. *Seismological Research Letters* 90, 2250-2261, <http://doi.org/10.1785/0220190149>
- Silva, P.G., Roquero, E., Medialdea, A., Bardají, T., Élez, J., Rodríguez-Pascua, M.A., 2022. Dating of Holocene Sedimentary and Paleosol Sequence within the Guadalentín Depression (Murcia, SE Spain): Paleoclimatic Implications and Paleoseismic Signals. *Geosciences* 12, <http://doi.org/10.3390/geosciences12120459>

- fluvial

- Aksay, S., Schoorl, J.M., Versendaal, A., Wallinga, J., Maddy, D., van der Schriek, T., Demir, T., Aytaç, A.S., Veldkamp, A., 2024. Timing of gully development in a structurally controlled badland landscape, western Turkey. *CATENA* 234, 107616, <http://doi.org/10.1016/j.catena.2023.107616>
- Bacon, S.N., Bullard, T.F., Kimball, V., Neudorf, C.M., Baker, S.A., 2023. Landscape response to hydroclimate variability shown by the post-Bonneville Flood (ca. 18 ka) fluvial-geomorphic history of the middle Snake River, Idaho, USA. *Quaternary Research* 113, 29-51, <http://doi.org/10.1017/qua.2022.60>
- Bejarano-Arias, I., Van Wees, R.M.J., Alexanderson, H., Janočko, J., Perić, Z.M., 2023. Testing the applicability of quartz and feldspar for luminescence dating of pleistocene alluvial sediments in the Tatra Mountain foothills, Slovakia. *Geochronometria* 50, 50-80, <http://doi.org/10.2478/geochr-2023-0002>
- Benito, G., Sanchez-Moya, Y., Medialdea, A., Barriendos, M., Calle, M., Rico, M., Sopeña, A., Machado, M.J., 2020. Extreme floods in small mediterranean catchments: Long-term response to climate variability and change. *Water* 12, <http://doi.org/10.3390/w12041008>
- Benito-Calvo, A., Moreno, D., Fujioka, T., López, G.I., Martín-González, F., Martínez-Fernández, A., Hernando-Alonso, I., Karampaglidis, T., Bermúdez de Castro, J.M., Gutiérrez, F., 2022. Towards the steady state? A long-term river incision deceleration pattern during Pleistocene entrenchment (Upper Ebro River, Northern Spain). *Global and Planetary Change* 213, 103813, <http://doi.org/10.1016/j.gloplacha.2022.103813>
- de Oliveira, M.A.T., Santos, J.C., Lemos, R., 2020. 80,000 years of geophysical stratigraphic record at the Serra da Capivara National Park, in northeastern Brazil: Uncovering hidden deposits and landforms at a canyon's floor. *Journal of South American Earth Sciences* 104, 102691, <http://doi.org/10.1016/j.jsames.2020.102691>

- Delchiaro, M., Iacobucci, G., Della Seta, M., Gribenski, N., Piacentini, D., Ruscitto, V., Zocchi, M., Troiani, F., 2024. A fluvial record of late Quaternary climate changes and tectonic uplift along the Marche Piedmont Zone of the Apennines: New insights from the Tesino River (Italy). *Geomorphology* 445, 108971, <http://doi.org/10.1016/j.geomorph.2023.108971>
- Devrani, R., Singh, V., Saini, H.S., Mujtaba, S.A.I., 2023. Controls on sediment storage in wide mountain valleys — a case study from Srinagar (Garhwal) valley, NW Himalaya. *Geosciences Journal* 27, 23-43, <http://doi.org/10.1007/s12303-022-0023-0>
- Elznicová, J., Kiss, T., von Suchodoletz, H., Bartyik, T., Sipos, G., Lend'áková, Z., Fačevicová, K., Pavlů, I., Kovárník, J., Matys Grygar, T., 2023. Was the termination of the Jizera River meandering during the Late Holocene caused by anthropogenic or climatic forcing? *Earth Surface Processes and Landforms* 48, 669-686, <http://doi.org/10.1002/esp.5509>
- Feng, Z., Peng, T., Ma, Z., Han, B., Wang, H., Guo, B., Zhao, Z., Zhang, J., Song, C., Hu, Z., 2022. Contrasting responses of rivers with different sizes to extrinsic changes in the northeastern Tibetan Plateau. *Journal of Asian Earth Sciences* 233, 105269, <http://doi.org/10.1016/j.jseaes.2022.105269>
- Forman, S.L., Wu, Z., Wiest, L., Marin, L., Mayhack, C., 2023. Late Quaternary fluvial and aeolian depositional environments for the western Red River, Southern Great Plains, USA. *Quaternary Research* 115, 3-24, <http://doi.org/10.1017/qua.2023.15>
- Ghilardi, M., Kinnaird, T., Kouli, K., Bicket, A., Crest, Y., Demory, F., Delanghe, D., Fachard, S., Sanderson, D., 2022. Reconstructing the Fluvial History of the Lilas River (Euboea Island, Central West Aegean Sea) from the Mycenaean Times to the Ottoman Period. *Geosciences* 12, <http://doi.org/10.3390/geosciences12050204>
- Guyez, A., Bonnet, S., Reimann, T., Carretier, S., Wallinga, J., 2023. A novel approach to quantify sediment transfer and storage in rivers—testing feldspar single-grain pirlir analysis and numerical simulations. *Journal of Geophysical Research: Earth Surface* 128, e2022JF006727, <http://doi.org/10.1029/2022JF006727>
- Ishii, Y., 2024. IRSL and post-IR IRSL dating of multi-grains, single grains, and cobble surfaces to constrain fluvial responses to climate changes during the last glacial period in the Tokachi Plain, northern Japan. *Quaternary Geochronology* 79, 101486, <http://doi.org/10.1016/j.quageo.2023.101486>
- Jakhmola, R.P., Dash, C., Singh, S., Patel, N.K., Verma, A.K., Pati, P., Awasthi, A.K., Sarma, J.N., 2023. Holocene landscape evolution of the Brahmaputra River valley in the upper Assam Basin (India): Deduced from the soil-geomorphic studies. *Quaternary Science Reviews* 316, 108243, <http://doi.org/10.1016/j.quascirev.2023.108243>
- Kaushik, S., Sundriyal, Y., Chauhan, N., Rana, N., Sharma, S., 2023. Reconstructing the pattern of late Quaternary climate through sediment-landform assemblages in the Dhauli Ganga valley (upper Ganga catchment), India. *Geomorphology* 432, 108708, <http://doi.org/10.1016/j.geomorph.2023.108708>
- Liang, H., Zhang, K., Li, Z., Fu, J., Yu, Z., Xiong, J., Li, X., Ma, Z., Huang, P., Li, Z., Zhang, Y., Hui, G., Tian, Q., Wang, W., Zheng, W., Zhang, P., 2023. How headward erosion breaches upstream paleolakes: Insights from dated longitudinal fluvial terrace correlations within the Sanmen Gorge, Yellow River. *GSA Bulletin* 135, 1602-1617, <http://doi.org/10.1130/B36537.1>
- Liu, S.-H., Lüthgens, C., Hardt, J., Hebenstreit, R., Böse, M., Frechen, M., 2023. Late Quaternary formation of the Miaoli Tableland in northwest Taiwan, an interplay of tectonic uplift and fluvial processes dated by OSL. *Quaternary Research* 112, 128-149, <http://doi.org/10.1017/qua.2022.52>
- Lüthgens, C., Luciani, M., Prochazka, S., Firla, G., Hoelzmann, P., Abualhassan, A.M., 2023. Watering the desert: Oasis hydroarchaeology, geochronology and functionality in Northern Arabia. *The Holocene* 33, 562-580, <http://doi.org/10.1177/0959683623115729>
- Mahadev, Jaiswal, M.K., Shrivsager, V., Singh, S., K, A., Singh, A.K., 2022. Late quaternary evolution of lower Kaveri and adjoining river basins in Tamil Nadu, Southern India: A combined approach using remote sensing and optical dating of fluvial records. *Environmental Challenges* 9, 100595, <http://doi.org/10.1016/j.envc.2022.100595>
- Mao, P., Guo, Y., Liu, T., 2023. Holocene extreme palaeofloods recorded by slackwater deposits along the Jiacha Gorge of the Yarlung Tsangpo River valley, southern Tibetan Plateau. *CATENA* 231, 107360, <http://doi.org/10.1016/j.catena.2023.107360>
- Mueller, D., Raith, K., Bretzke, K., Fülling, A., Parker, A.G., Parton, A., Preston, G.W., Jasim, S., Yousif, E., Preusser, F., 2023. Luminescence chronology of fluvial and aeolian deposits from the Emirate of Sharjah, UAE. *Quaternary Research* 112, 111-127, <http://doi.org/10.1017/qua.2022.51>
- Ott, R.F., Scherler, D., Wegmann, K.W., D'Arcy, M.K., Pope, R.J., Ivy-Ochs, S., Christl, M., Vockenhuber, C., Rittenour, T.M., 2023. Paleo-denudation rates suggest variations in runoff drove aggradation during last

- glacial cycle, Crete, Greece. *Earth Surface Processes and Landforms* 48, 386-405, <http://doi.org/10.1002/esp.5492>
- Pears, B., Brown, A.G., Toms, P.S., Wood, J., Pennington, B.T., Jones, R., 2023. Rapid laminated clastic alluviation associated with increased Little Ice Age flooding co-driven by climate variability and historic land-use in the middle Severn catchment, UK. *The Holocene* 33, 1474-1488, <http://doi.org/10.1177/09596836231197740>
- Rodrigues, K., Keen-Zebert, A., Shepherd, S., Hudson, M.R., Bitting, C.J., Johnson, B.G., Langston, A., 2023. The role of lithology and climate on bedrock river incision and terrace development along the Buffalo National River, Arkansas. *Quaternary Research* 115, 179-193, <http://doi.org/10.1017/qua.2023.16>
- Saha, U.D., Bhattacharya, S., Bhattacharya, H.N., Islam, A., Jaiswal, M., Narzary, B., Dutt, S., 2023. Development of a hyper-avulsive river course during the Holocene on the Himalayan frontal plains. *CATENA* 231, 107279, <http://doi.org/10.1016/j.catena.2023.107279>
- Shen, Q., Zhou, Y., Xu, Y., Lai, Y., Yan, X., Huang, X., Liu, X., Zhong, J., Zhu, S., Li, Z., Lai, Z., 2023. Late Quaternary river evolution and its response to climate changes in the upper Mekong River of the Qinghai-Tibetan Plateau. *Geomorphology* 442, 108920, <http://doi.org/10.1016/j.geomorph.2023.108920>
- Sridhar, A., Bhattacharya, F., Vanik, N., Maurya, D.M., Chamyal, L.S., 2022. Late Pleistocene history of aggradation and incision within a bedrock gorge, Narmada River, central India: implications for resurgent tectonic activity and changing climate. *Journal of Quaternary Science* 37, 1371-1387, <http://doi.org/10.1002/jqs.3453>
- Sun, A., Li, H., Zhang, S., Cao, H., Qiu, M., Wang, Y., Liu, B., Zhao, H., Dong, G., 2023. Impact of climate-driven oasis evolution on human settlement in the Baiyang River Basin, northwest China, Hami, during the middle to late Holocene. *Palaeogeography, Palaeoclimatology, Palaeoecology* 622, 111602, <http://doi.org/10.1016/j.palaeo.2023.111602>
- Sweeney, M.R., McDonald, E.V., Chabela, L.P., Hanson, P.R., 2020. The role of eolian-fluvial interactions and dune dams in landscape change, late Pleistocene-Holocene, Mojave Desert, USA. *GSA Bulletin* 132, 2318-2332, <http://doi.org/10.1130/B35434.1>
- Tuzlak, D., Pederson, J., Bufe, A., Rittenour, T., 2021. Patterns of incision and deformation on the southern flank of the Yellowstone hotspot from terraces and topography. *GSA Bulletin* 134, 1319-1333, <http://doi.org/10.1130/B35923.1>
- Viveen, W., Sanjurjo-Sánchez, J., Baby, P., del Rosario González-Moradas, M., 2021. An assessment of competing factors for fluvial incision: An example of the late Quaternary exorheic Moyobamba basin, Peruvian Subandes. *Global and Planetary Change* 200, 103476, <http://doi.org/10.1016/j.gloplacha.2021.103476>
- Viveen, W., Sanjurjo-Sánchez, J., Rosas, M.A., Vanacker, V., Villegas-Lanza, J.C., 2022. Heinrich events and tectonic uplift as possible drivers for late Quaternary fluvial dynamics in the western Peruvian Andes. *Global and Planetary Change* 218, 103972, <http://doi.org/10.1016/j.gloplacha.2022.103972>
- Wang, P., Wang, H., Liu, T., Hu, G., Qin, J., Yuan, R., 2024. Sedimentary records of megafloods in the Yarlung Tsangpo Gorge in the eastern Himalaya since the Last Glacial Period. *Quaternary Science Reviews* 324, 108436, <http://doi.org/10.1016/j.quascirev.2023.108436>
- Wang, Z., Yin, J.-J., Hao, X., Yang, H., Wu, X., Lan, G., Tang, W., 2023. Enhanced debris flow activities in the subtropical mountainous catchment of South China during early Marine Isotope Stage 3. *CATENA* 231, 107331, <http://doi.org/10.1016/j.catena.2023.107331>
- Woor, S., Thomas, D.S.G., Durcan, J.A., Burrough, S.L., Parton, A., 2023. The aggradation of alluvial fans in response to monsoon variability over the last 400 ka in the Hajar Mountains, south-east Arabia. *Quaternary Science Reviews* 322, 108384, <http://doi.org/10.1016/j.quascirev.2023.108384>
- Xiao, Q., Zhang, Y., Wang, N., Huang, C.C., Qiu, H., Zhu, Y., Wang, H., Jia, Y.-n., Chen, D., Wang, C., Wang, S., Storozum, M., 2022. Paleochannel of the Yellow River within the Zoige Basin and its environmental significance on the NE Tibetan Plateau. *Science of The Total Environment* 853, 158242, <http://doi.org/10.1016/j.scitotenv.2022.158242>
- Yorke, L., Chiverrell, R.C., Schwenninger, J.L., 2024. Lateglacial and early Holocene evolution of the Tyne Valley in response to climatic shifts and possible paraglacial landscape legacies. *Geomorphology* 446, 109007, <http://doi.org/10.1016/j.geomorph.2023.109007>
- Zhang, A., Gao, Q., Mostafizur Rahman, S., Mahbubul Alam, M., Guo, Y., Chen, Y., Chen, J., Wang, H., Wang, P., Zhang, J., Yi, C., Hu, G., 2023. Luminescence fingerprints fluvial sediment transport from the Tibetan Plateau to the Bangladesh Delta. *Earth and Planetary Science Letters* 622, 118387, <http://doi.org/10.1016/j.epsl.2023.118387>

- glacial and periglacial

- Alexanderson, H., Hättestrand, M., Lindqvist, M.A., Sigfúsdóttir, T., 2022. MIS 3 age of the Veiki moraine in N Sweden – Dating the landform record of an intermediate-sized ice sheet in Scandinavia. Arctic, Antarctic, and Alpine Research 54, 239-261, <http://doi.org/10.1080/15230430.2022.2091308>
- Balco, G., Brown, N., Nichols, K., Venturelli, R.A., Adams, J., Braddock, S., Campbell, S., Goehring, B., Johnson, J.S., Rood, D.H., Wilcken, K., Hall, B., Woodward, J., 2023. Reversible ice sheet thinning in the Amundsen Sea Embayment during the Late Holocene. The Cryosphere 17, 1787-1801, <http://doi.org/10.5194/tc-17-1787-2023>
- Borisova, O., Konstantinov, E., Utkina, A., Baranov, D., Panin, A., 2022. On the existence of a large proglacial lake in the Rostov-Kostroma lowland, north-central European Russia. Journal of Quaternary Science 37, 1442-1459, <http://doi.org/10.1002/jqs.3454>
- Borodin, A.V., Markova, E.A., Korkin, S.E., Trofimova, S.S., Zinov'yev, E.V., Isypov, V.A., Yalkovskaya, L.E., Kurbanov, R.N., 2023. Late Middle Pleistocene sequences in the lower Ob' and Irtysh (West Siberia) and new multi-proxy records of terrestrial environmental change. Quaternary International 671, 15-32, <http://doi.org/10.1016/j.quaint.2023.07.009>
- Das, S., Murari, M.K., Sharma, M.C., Saini, R., Jaiswal, M.K., Kumar, P.V., Kumar, P., 2023. Reconstraining the Quaternary glacial history of Lahaul Himalaya, northern India. Quaternary Science Reviews 316, 108258, <http://doi.org/10.1016/j.quascirev.2023.108258>
- Dey, S., Chauhan, N., Mahala, M.K., Chakravarti, P., Vashistha, A., Jain, V., Ray, J.S., 2022. Dominant role of deglaciation in Late Pleistocene–Early Holocene sediment aggradation in the Upper Chenab valley, NW Himalaya. Quaternary Research 113, 122-133, <http://doi.org/10.1017/qua.2022.57>
- Erber, N.R., Kehew, A.E., Schaetzl, R.J., Gillespie, R., Sultan, M.E., Esch, J., Yellich, J., Brandon Curry, B., Huot, S., Abotalib, A.Z., 2023. Revisiting the timing of Saginaw lobe ice retreat and implications for drainage adjustments across southern Michigan, USA. CATENA 233, 107510, <http://doi.org/10.1016/j.catena.2023.107510>
- Gibbard, P.L., Bateman, M.D., Leathard, J., West, R.G., 2021. Luminescence dating of a late Middle Pleistocene glacial advance in eastern England. Netherlands Journal of Geosciences 100, e18, <http://doi.org/10.1017/njg.2021.13>
- Hodder, T.J., Gauthier, M.S., Ross, M., Lian, O.B., 2023. Was there a nonglacial episode in the western Hudson Bay Lowland during Marine Isotope Stage 3? Quaternary Research 116, 148-161, <http://doi.org/10.1017/qua.2023.35>
- Karpukhina, N.V., Karevskaya, I.A., Borisova, O.K., Konstantinov, E.A., Kurbanov, R.N., Zakharov, A.L., Filippova, K.G., Zazovskaya, E.P., 2022. Evolution of a proglacial lake in the Izborsko-Malskaya Valley, Russia, in the Late Glacial. Journal of Quaternary Science 37, 1460-1479, <http://doi.org/10.1002/jqs.3455>
- Mangerud, J., Alexanderson, H., Birks, H.H., Paus, A., Perić, Z.M., Svendsen, J.I., 2023. Did the Eurasian ice sheets melt completely in early Marine Isotope Stage 3? New evidence from Norway and a synthesis for Eurasia. Quaternary Science Reviews 311, 108136, <http://doi.org/10.1016/j.quascirev.2023.108136>
- Moska, P., Sokołowski, R.J., Zieliński, P., Jary, Z., Raczyk, J., Mroczek, P., Szymak, A., Krawczyk, M., Skurzyński, J., Poręba, G., Łopuch, M., Tudyka, K., 2023. An impact of short-term climate oscillations in the Late Pleniglacial and Lateglacial interstadial on sedimentary processes and the pedogenic record in central Poland. Annals of the American Association of Geographers 113, 46-70, <http://doi.org/10.1080/24694452.2022.2094325>
- Pfander, J., Schlunegger, F., Serra, E., Gribenski, N., Garefalakis, P., Akçar, N., 2022. Glaciofluvial sequences recording the Birrfeld Glaciation (MIS 5d–2) in the Bern area, Swiss Plateau. Swiss Journal of Geosciences 115, 12, <http://doi.org/10.1186/s00015-022-00414-z>
- Rasmussen, C.F., Christiansen, H.H., Buylaert, J.-P., Cunningham, A., Schneider, R., Knudsen, M.F., Stevens, T., 2023. High-resolution OSL dating of loess in Adventdalen, Svalbard: Late Holocene dust activity and permafrost development. Quaternary Science Reviews 310, 108137, <http://doi.org/10.1016/j.quascirev.2023.108137>
- Sharma, S., Shukla, A.D., 2024. Mid-Holocene climate-glacier relationship inferred from landforms and relict lake sequence, Southern Zanskar ranges, NW Himalaya. Geomorphology 444, 108953, <http://doi.org/10.1016/j.geomorph.2023.108953>
- Šujan, M., Rybár, S., Thamó-Bozsó, E., Klučiar, T., Tibenský, M., Sebe, K., 2022. Collapse wedges in periglacial eolian sands evidence Late Pleistocene paleoseismic activity of the Vienna Basin Transfer Fault (western Slovakia). Sedimentary Geology 431, 106103, <http://doi.org/10.1016/j.sedgeo.2022.106103>
- Turu, V., Peña-Monné, J.L., Cunha, P.P., Jalut, G., Buylaert, J.-P., Murray, A.S., Bridgland, D., Faurschou-Knudsen, M., Oliva, M., Carrasco, R.M., Ros, X., Turu-Font, L., Ventura Roca, J., 2023. Glacial–

- interglacial cycles in the south-central and southeastern Pyrenees since ~180 ka (NE Spain–Andorra–S France). Quaternary Research 113, 1–28, <http://doi.org/10.1017/qua.2022.68>
- Xie, J., Yang, T., Zhou, S., Xu, L., Ou, X., Hu, G., 2023. Glacial fluctuations during the Last Glacial Maximum and Lateglacial in the Zhuxi and Songlong valleys, eastern Nyainqntanglha Range, southeastern Tibet. Journal of Quaternary Science 38, 580–596, <http://doi.org/10.1002/jqs.3484>

- lacustrine

- Gong, Z., Li, Q., Luo, M., Dai, C., Peng, H., 2023. Sedimentary facies and chronological study for a Late Pleistocene sand layer with swash cross bedding within a sand hill at north of Poyang Lake, as inferred from sedimentary structure and optical dating of K-feldspar and quartz grains. Quaternary International 673, 29–39, <http://doi.org/10.1016/j.quaint.2023.10.001>
- Hudson, A.M., Quade, J., Holliday, V.T., Fenerty, B., Bright, J.E., Gray, H.J., Mahan, S.A., 2023. Paleohydrologic history of pluvial lake San Agustin, New Mexico: Tracking changing effective moisture in southwest North America through the last glacial transition. Quaternary Science Reviews 310, 108110, <http://doi.org/10.1016/j.quascirev.2023.108110>
- Sagwal, S., Kumar, A., Sharma, C.P., Srivastava, P., Agarwal, S., Bhushan, R., 2023. Late-Holocene hydrological variability from the NW Himalaya and southwestern Tibetan Plateau: Paleo-salinity records from Pangong Tso. The Holocene 33, 842–859, <http://doi.org/10.1177/09596836231163486>
- Wang, P., Wang, H., Hu, G., Ge, Y., Liu, T., Xu, B., 2023. Reconstructing post-mid Pleistocene glacial-dammed paleolakes in the Tsangpo Gorge, southeastern Tibetan Plateau. Quaternary Science Reviews 314, 108228, <http://doi.org/10.1016/j.quascirev.2023.108228>
- Yi, S., Wang, X., Xu, Z., Wu, J., Lu, H., 2023. Late Quaternary hydroclimatic variations in the hyper-arid Dunhuang Basin, northwestern China. Palaeogeography, Palaeoclimatology, Palaeoecology 626, 111693, <http://doi.org/10.1016/j.palaeo.2023.111693>
- Zhang, Z., Shen, Z., Zhang, S., Chen, J., Chen, S., Li, D., Zhang, S., Liu, X., Wu, D., Sheng, Y., Tang, Q., Chen, F., Liu, J., 2022. Lake level evidence for a mid-Holocene East Asian summer monsoon maximum and the impact of an abrupt late-Holocene drought event on prehistoric cultures in north-central China. The Holocene 33, 382–399, <http://doi.org/10.1177/09596836221145362>
- Zheng, J., Zhang, J., Zhang, B., Wang, Y., Gu, D., Feng, L., Wang, H., 2023. Quaternary evolution of the Dunhuang paleolake and its controlling factors in the northeastern Tibetan Plateau. Geomorphology 438, 108814, <http://doi.org/10.1016/j.geomorph.2023.108814>

- loess

- Bosq, M., Kreutzer, S., Bertran, P., Lanos, P., Dufresne, P., Schmidt, C., 2023. Last Glacial loess in Europe: luminescence database and chronology of deposition. Earth System Science Data 15, 4689–4711, <http://doi.org/10.5194/essd-15-4689-2023>
- Constantin, D., Mason, J.A., Veres, D., Hambach, U., Panaiotou, C., Zeeden, C., Zhou, L., Marković, S.B., Gerasimenko, N., Avram, A., Tecsa, V., Groza-Sacaciu, S.M., del Valle Villalonga, L., Begy, R., Timar-Gabor, A., 2021. OSL-dating of the Pleistocene-Holocene climatic transition in loess from China, Europe and North America, and evidence for accretionary pedogenesis. Earth-Science Reviews 221, 103769, <http://doi.org/10.1016/j.earscirev.2021.103769>
- Dave, A.K., Lisá, L., Scardia, G., Nigmatova, S., Fitzsimmons, K.E., 2023. The patchwork loess of Central Asia: Implications for interpreting aeolian dynamics and past climate circulation in piedmont regions. Journal of Quaternary Science 38, 526–543, <http://doi.org/10.1002/jqs.3493>
- Li, G., Wang, Y., Yan, Z., Qin, C., Ding, W., Yang, H., Wang, X., Zhang, X., 2023. High-resolution luminescence chronology of loess-paleosols reveals East Asian summer monsoon and winter monsoon variation in Hexi Corridor during the past 25 kyr. Palaeogeography, Palaeoclimatology, Palaeoecology 627, 111743, <http://doi.org/10.1016/j.palaeo.2023.111743>
- Li, Q., Li, P., Liu, X., Chen, Z., Liu, L., Liu, W., Luo, Y., Zhou, J., Wen, C., Yang, S., 2023. Aeolian process and climatic changes in loess records from the eastern Tibetan Plateau: Implications for paleoenvironmental dynamics since MIS 3. CATENA 231, 107361, <http://doi.org/10.1016/j.catena.2023.107361>
- Li, Y., Zhang, R., Long, H., Cheng, P., Kemp, D.B., Zhang, Z., Huang, C., Hou, M., Li, Y., Jia, S., Wang, Z., Tan, L., 2023. Climate changes in the Hexi Corridor, western China over the past 13.3 ka. Palaeogeography, Palaeoclimatology, Palaeoecology 622, 111605, <http://doi.org/10.1016/j.palaeo.2023.111605>

- Schmidt, A.H., Collins, B.D., Keen-Zebert, A., d'Alpoim Guedes, J., Hein, A., Womack, A., McGuire, C., Feathers, J., Persico, L., Fiallo, D., Tang, Y., Simonson, B., 2023. Implications of the loess record for Holocene climate and human settlement in Heye Catchment, Jiuzhaigou, eastern Tibetan Plateau, Sichuan, China. Quaternary Research 112, 36-50, <http://doi.org/10.1017/qua.2022.44>
- Schulze, T., Schwahn, L., Fülling, A., Zeeden, C., Preusser, F., Sprafke, T., 2022. Investigating the loess-palaeosol sequence of Bahlingen-Schönenberg (Kaiserstuhl), southwestern Germany, using a multi-methodological approach. E&G Quaternary Science Journal 71, 145-162, <http://doi.org/10.5194/egqsj-71-145-2022>
- Schwahn, L., Schulze, T., Fülling, A., Zeeden, C., Preusser, F., Sprafke, T., 2023. Multi-method study of the Middle Pleistocene loess-palaeosol sequence of Köndringen, SW Germany. E&G Quaternary Science Journal 72, 1-21, <http://doi.org/10.5194/egqsj-72-1-2023>
- Shah, R.A., Achyuthan, H., Lone, A.M., Jaiswal, M.K., Paul, D., 2021. Constraining the timing and deposition pattern of loess-palaeosol sequences in Kashmir Valley, Western Himalaya: Implications to paleoenvironment studies. Aeolian Research 49, 100660, <http://doi.org/10.1016/j.aeolia.2020.100660>
- Zhang, J., Li, S.-H., Sun, J., Lü, T., Zhou, X., Hao, Q., 2023. Quartz luminescence sensitivity variation in the Chinese loess deposits: the potential role of wildfires. Journal of Quaternary Science 38, 49-60, <http://doi.org/10.1002/jqs.3462>
- Zhang, J., Tsukamoto, S., Long, H., 2023. Testing the potential of pulsed post-IR IRSL dating on Chinese loess deposits. Quaternary Geochronology 78, 101469, <http://doi.org/10.1016/j.quageo.2023.101469>
- Zhang, S., Yang, S., Jiang, W., Huang, X., Wang, Y., Sun, M., Guo, L., Yang, X., Ding, Z., 2023. BrGDGTs-based temperature and hydrological reconstruction from loess-paleosol deposits in the Eastern European Plain since 200 ka. Quaternary Science Reviews 316, 108275, <http://doi.org/10.1016/j.quascirev.2023.108275>
- Zhang, Z., Zheng, Z., Meng, X., Lai, Z., Hou, Y., Ji, J., 2023. Gradually increasing precipitation since 20 ka as evidenced by loess dolomite abundance in the Ili Basin, Central Asia. CATENA 232, 107420, <http://doi.org/10.1016/j.catena.2023.107420>

- marine

- Gao, L., Li, J., Hu, B., Yi, L., Tamura, T., Long, H., 2022. Luminescence dating of a sedimentary sequence in the eastern North Yellow Sea. Marine and Petroleum Geology 138, 105543, <http://doi.org/10.1016/j.marpetgeo.2022.105543>

- soil

- Puyrigaud, J., Bertran, P., Lebrun, B., Lahaye, C., Guerin, G., Limondin-Lozouet, N., 2023. Last Interglacial-Glacial sequence of palaeosols and calcareous slope deposits at Verteuil (Charente, southwest France). Journal of Quaternary Science 38, 1321-1336, <http://doi.org/10.1002/jqs.3538>

- surface exposure dating

- Ageby, L., Brill, D., Angelucci, D.E., Brückner, H., Klasen, N., 2023. Investigating optical dating of carbonate-rich cobbles from a river terrace: A pilot study from the Mula Valley, Spain. Radiation Measurements 166, 106962, <http://doi.org/10.1016/j.radmeas.2023.106962>
- al Khasawneh, S., Murray, A., Gebel, H.G.K., 2024. Direct dating of a major rockfall at the Ba'ja Neolithic site (Jordan) using rock surface luminescence. Quaternary Geochronology 79, 101475, <http://doi.org/10.1016/j.quageo.2023.101475>
- Andričević, P., Sellwood, E.L., Freiesleben, T., Hidy, A.J., Kook, M., Eppes, M.C., Jain, M., 2023. Dating fractures using luminescence. Earth and Planetary Science Letters 624, 118461, <http://doi.org/10.1016/j.epsl.2023.118461>
- Balco, G., Brown, N., Nichols, K., Venturelli, R.A., Adams, J., Braddock, S., Campbell, S., Goehring, B., Johnson, J.S., Rood, D.H., Wilcken, K., Hall, B., Woodward, J., 2023. Reversible ice sheet thinning in the Amundsen Sea Embayment during the Late Holocene. The Cryosphere 17, 1787-1801, <http://doi.org/10.5194/tc-17-1787-2023>
- Bench, T., Sanderson, D., Feathers, J., Warfield, E., 2023. Investigating the use of two-dimensional OSL laser scanning instruments and energy-dispersive x-ray spectroscopy for OSL exposure dating. Radiation Measurements 167, 106999, <http://doi.org/10.1016/j.radmeas.2023.106999>

- Freiesleben, T.H., Thomsen, K.J., Sellwood, E., Liu, J., Murray, A.S., 2023. Testing new kinetic models and calibration methods for Rock Surface Luminescence Exposure dating using controlled experiments. *Radiation Measurements* 169, 107033, <http://doi.org/10.1016/j.radmeas.2023.107033>
- Ishii, Y., 2024. IRSL and post-IR IRSL dating of multi-grains, single grains, and cobble surfaces to constrain fluvial responses to climate changes during the last glacial period in the Tokachi Plain, northern Japan. *Quaternary Geochronology* 79, 101486, <http://doi.org/10.1016/j.quageo.2023.101486>
- Liu, Q., Chen, J., Qin, J., Di, N., Luo, M., Yang, H., Liu, J., 2023. Zeroing of IRSL signals in cobbles surfaces from a modern river floodplain in the Manas river, Tian Shan. *Quaternary International* 672, 52-62, <http://doi.org/10.1016/j.quaint.2023.09.001>
- Luo, M., Chen, J., Owen, L.A., Qin, J., Yin, J., Yang, H., Liu, J., Gong, Z., Luo, J., 2022. A novel approach for reconstructing slip histories for bedrock fault scarps using rock surface luminescence dating. *Geophysical Research Letters* 49, e2022GL099526, <http://doi.org/10.1029/2022GL099526>
- Moayed, N.K., Sohbati, R., Murray, A.S., Rades, E.F., Fattahi, M., Ruiz López, J.F., 2023. Rock surface luminescence dating of prehistoric rock art from central Iberia. *Archaeometry* 65, 319-334, <http://doi.org/10.1111/arcm.12826>
- Polymeris, G.S., Liritzis, I., Iliopoulos, I., Xanthopoulou, V., Bednarik, R.G., Kumar, G., Vafiadou, A., 2023. Constraining the minimum age of Daraki-Chattan rock art in India by OSL dating and petrographic analyses. *Quaternary Geochronology* 78, 101472, <http://doi.org/10.1016/j.quageo.2023.101472>
- Sohbati, R., Hippe, K., 2023. OSL-14C-10Be: A novel composite geochronometer for simultaneous quantification of timing and magnitude of change in bedrock outcrop erosion rate. *Earth Surface Processes and Landforms* 48, 322-331, <http://doi.org/10.1002/esp.5487>

- tephra (and volcanic related)

- Anil, D., Devi, M., Blinkhorn, J., Smith, V., Sanghode, S., Mahesh, V., Khan, Z., Ajithprasad, P., Chauhan, N., 2023. Youngest Toba Tuff deposits in the Gundlakamma River basin, Andhra Pradesh, India and their role in evaluating Late Pleistocene behavioral change in South Asia. *Quaternary Research* 115, 134-145, <http://doi.org/10.1017/qua.2023.13>

Archaeology applications

- al Khasawneh, S., Murray, A., Gebel, H.G.K., 2024. Direct dating of a major rockfall at the Ba'ja Neolithic site (Jordan) using rock surface luminescence. *Quaternary Geochronology* 79, 101475, <http://doi.org/10.1016/j.quageo.2023.101475>
- al Khasawneh, S., Schmidt, K., Murray, A., Thompson, W., 2023. Luminescence dating of anthropogenic deposits from Tall Zar'a in the Jordan Valley. *Archaeometry* 65, 972-986, <http://doi.org/10.1111/arcm.12871>
- Archer, W., Presnyakova, D., Aldeias, V., Colarossi, D., Hutten, L., Lauer, T., Porraz, G., Rossouw, L., Shaw, M., 2023. Late Acheulean occupations at Montagu Cave and the pattern of Middle Pleistocene behavioral change in Western Cape, southern Africa. *Journal of Human Evolution* 184, 103435, <http://doi.org/10.1016/j.jhevol.2023.103435>
- Barham, L., Duller, G.A.T., Candy, I., Scott, C., Cartwright, C.R., Peterson, J.R., Kabukcu, C., Chapot, M.S., Melia, F., Rots, V., George, N., Taipale, N., Gethin, P., Nkombwe, P., 2023. Evidence for the earliest structural use of wood at least 476,000 years ago. *Nature*, <http://doi.org/10.1038/s41586-023-06557-9>
- Cheliz, P.M., Giannini, P.C.F., Moreno de Sousa, J.C., Ladeira, F.S.B., Rodrigues, J.A., Mingatos, G.S., Pupim, F.N., Mineli, T.D., Galhardo, D., Rodrigues, R.A., 2023. Early anthropic occupation and geomorphological changes in South America: human–environment interactions and OSL data from the Rincão I site, southeastern Brazil. *Journal of Quaternary Science* 38, 685-701, <http://doi.org/10.1002/jqs.3505>
- Demeter, F., Zanolli, C., Westaway, K.E., Joannes-Boyau, R., Duringer, P., Morley, M.W., Welker, F., Rüther, P.L., Skinner, M.M., McColl, H., Gaunitz, C., Vinner, L., Dunn, T.E., Olsen, J.V., Sikora, M., Ponche, J.-L., Suzzoni, E., Frangeul, S., Boesch, Q., Antoine, P.-O., Pan, L., Xing, S., Zhao, J.-X., Bailey, R.M., Boualaphane, S., Sichanthongtip, P., Sihanam, D., Patole-Edoumba, E., Aubaile, F., Crozier, F., Bourgon, N., Zachwieja, A., Luangkhoth, T., Souksavatdy, V., Sayavongkhamdy, T., Cappellini, E., Bacon, A.-M., Hublin, J.-J., Willerslev, E., Shackelford, L., 2022. A Middle Pleistocene Denisovan molar from the Annamite Chain of northern Laos. *Nature Communications* 13, 2557, <http://doi.org/10.1038/s41467-022-29923-z>

- Demuro, M., Arnold, L.J., González-Urquijo, J., Lazuen, T., Frochoso, M., 2023. Chronological constraint of Neanderthal cultural and environmental changes in southwestern Europe: MIS 5–MIS 3 dating of the Axlor site (Biscay, Spain). *Journal of Quaternary Science* 38, 891–920, <http://doi.org/10.1002/jqs.3527>
- Duval, M., Sahnouni, M., Parés, J.M., Zhao, J.-x., Grün, R., Abdessadok, S., Pérez-González, A., Derradj, A., Harichane, Z., Mazouni, N., Boulaghraief, K., Chehab, R.C., van der Made, J., 2023. On the age of Ain Hanech Oldowan locality (Algeria): First numerical dating results. *Journal of Human Evolution* 180, 103371, <http://doi.org/10.1016/j.jhevol.2023.103371>
- Eixa, A., Bel, M.Á., Carrión Marco, Y., Ferrer-García, C., Guillem, P.M., Martínez-Alfaro, Á., Martínez-Varea, C.M., Moya, R., Rodrigues, A.L., Dias, M.I., Russo, D., Sanchis, A., 2023. A multi-proxy study from new excavations in the Middle Palaeolithic site of Cova del Puntal del Gat (Benirredrà, València, Spain). *Comptes Rendus Palevol* 10, <http://doi.org/10.5852/cr-palevol2023v22a10>
- Esiana, B.O.I., Oram, R.D., 2023. Soil and spatial analyses in the assessment of the focal point of the extinct medieval royal burgh of Roxburgh. *Journal of Archaeological Science: Reports* 50, 104104, <http://doi.org/10.1016/j.jasrep.2023.104104>
- Feathers, J., 2023. The contributions of luminescence dating of sediments to understanding the first settlement of the Americas. *PaleoAmerica* 9, 81–114, <http://doi.org/10.1080/20555563.2023.2234740>
- Fernández, A.F., Carvalho, P.C., Cristóvão, J., Sanjurjo-Sánchez, J., Dias, P., 2019. Dating the early Christian baptisteries from Idanha-a-Velha—the Suebi-Visigothic Egitania: stratigraphy, radiocarbon and OSL. *Archaeological and Anthropological Sciences* 11, 5691–5704, <http://doi.org/10.1007/s12520-019-00901-9>
- Fourcade, T., Sánchez Goñi, M.F., Lahaye, C., Rossignol, L., Philippe, A., 2022. Environmental changes in SW France during the Middle to Upper Paleolithic transition from the pollen analysis of an eastern North Atlantic deep-sea core. *Quaternary Research* 110, 147–164, <http://doi.org/10.1017/qua.2022.21>
- Freidline, S.E., Westaway, K.E., Joannes-Boyau, R., Duringer, P., Ponche, J.-L., Morley, M.W., Hernandez, V.C., McAllister-Hayward, M.S., McColl, H., Zanolli, C., Gunz, P., Bergmann, I., Sichanthongtip, P., Sihanam, D., Boualaphane, S., Luangkhoth, T., Souksavatdy, V., Dosseto, A., Boesch, Q., Patole-Edoumba, E., Aubaile, F., Crozier, F., Suzzoni, E., Frangeul, S., Bourgon, N., Zachwieja, A., Dunn, T.E., Bacon, A.-M., Hublin, J.-J., Shackelford, L., Demeter, F., 2023. Early presence of Homo sapiens in Southeast Asia by 86–68 kyr at Tam Pà Ling, Northern Laos. *Nature Communications* 14, 3193, <http://doi.org/10.1038/s41467-023-38715-y>
- Fusco, D.A., Arnold, L.J., Gully, G.A., Levchenko, V.A., Jacobsen, G.E., Prideaux, G.J., 2023. Revisiting the late Quaternary fossiliferous infills of Cathedral Cave, Wellington Caves (central eastern New South Wales, Australia). *Journal of Quaternary Science* 38, 505–525, <http://doi.org/10.1002/jqs.3497>
- Groucutt, H.S., White, T.S., Scerri, E.M.L., Andrieux, E., Clark-Wilson, R., Breeze, P.S., Armitage, S.J., Stewart, M., Drake, N., Louys, J., Price, G.J., Duval, M., Parton, A., Candy, I., Carleton, W.C., Shipton, C., Jennings, R.P., Zahir, M., Blinkhorn, J., Blockley, S., Al-Omari, A., Alsharekh, A.M., Petraglia, M.D., 2021. Multiple hominin dispersals into Southwest Asia over the past 400,000 years. *Nature* 597, 376–380, <http://doi.org/10.1038/s41586-021-03863-y>
- Grün, R., Pike, A., McDermott, F., Eggins, S., Mortimer, G., Aubert, M., Kinsley, L., Joannes-Boyau, R., Rumsey, M., Denys, C., Brink, J., Clark, T., Stringer, C., 2020. Dating the skull from Broken Hill, Zambia, and its position in human evolution. *Nature* 580, 372–375, <http://doi.org/10.1038/s41586-020-2165-4>
- Grün, R., Stringer, C., 2023. Direct dating of human fossils and the ever-changing story of human evolution. *Quaternary Science Reviews* 322, 108379, <http://doi.org/10.1016/j.quascirev.2023.108379>
- Guibert, P., Guérin, G., Javel, J.-B., Urbanová, P., 2020. Modeling light exposure of quartz grains during mortar making: Consequences for optically stimulated luminescence dating. *Radiocarbon* 62, 693–711, <http://doi.org/10.1017/RDC.2020.34>
- Han, F., Bahain, J.-J., Shao, Q., Sun, X., Voinchet, P., Xiao, P., Huang, M., Li, M., Yin, G., 2022. The Chronology of Early Human Settlement in Three Gorges Region, China—Contribution of Coupled Electron Spin Resonance and Uranium-Series Dating Method. *Frontiers in Earth Science* 10, <http://doi.org/10.3389/feart.2022.939766>
- Hervé, G., Guibert, P., Meunier, H., Monteil, M., Dufresne, P., Lanos, P., Oberlin, C., Ben Aissa, G., 2023. Chronology of the Late Roman Antiquity walls of Le Mans (France) by OSL, archaeomagnetism and radiocarbon. *Journal of Archaeological Science: Reports* 51, 104172, <http://doi.org/10.1016/j.jasrep.2023.104172>
- Jordá Pardo, J.F., Álvarez-Alonso, D., de Andrés-Herrero, M., Ballesteros, D., Carral, P., Hevia-Carrillo, A., Sanjurjo, J., Giralt, S., Jiménez-Sánchez, M., 2023. Geomorphology, Geoarchaeology, and

- Geochronology of the Upper Pleistocene Archaeological Site of El Olivo Cave (Llanera, Asturias, Northern Spain). *Geosciences* 13, <http://doi.org/10.3390/geosciences13100301>
- Karimi Moayed, N., Vandenberghe, D.A.G., Verbrugge, A., Ech-Chakrouni, S., De Clercq, W., De Grave, J., 2023. Dating (early) modern hearths on a decadal to multi-annual timescale using OSL signals from heated sedimentary quartz. *Journal of Archaeological Science* 159, 105858, <http://doi.org/10.1016/j.jas.2023.105858>
- Kazancı, N., Özgüneylioğlu, A., Öncel, S.M., Erturaç, M.K., Şahiner, E., 2022. Crust occurrence on a Galatian rock-cut dwelling in central Anatolia, Turkey. *Geoarchaeology* 37, 658-681, <http://doi.org/10.1002/gea.21910>
- Kemp, J., Olley, J., Stout, J., Pietsch, T., Mithaka Aboriginal, C., 2022. Dating stone arrangements using optically stimulated luminescence and fallout radionuclides. *Geoarchaeology* 37, 439-449, <http://doi.org/10.1002/gea.21902>
- Marquet, J.-C., Freiesleben, T.H., Thomsen, K.J., Murray, A.S., Calligaro, M., Macaire, J.-J., Robert, E., Lorblanchet, M., Aubry, T., Bayle, G., Bréhéret, J.-G., Camus, H., Chareille, P., Egels, Y., Guillaud, É., Guérin, G., Gautret, P., Liard, M., O'Farrell, M., Peyrouse, J.-B., Thamó-Bozsó, E., Verdin, P., Wojtczak, D., Oberlin, C., Jaubert, J., 2023. The earliest unambiguous Neanderthal engravings on cave walls: La Roche-Cotard, Loire Valley, France. *PLOS ONE* 18, e0286568, <http://doi.org/10.1371/journal.pone.0286568>
- Martínez, G., Martínez, G.A., Owen, L.A., 2023. Human occupation, site formation, and chronostratigraphy of a mid-Holocene archaeological site at the eastern Pampa-Patagonia transition, Argentina. *Quaternary Research* 114, 52-68, <http://doi.org/10.1017/qua.2023.8>
- Moayed, N.K., Sohbati, R., Murray, A.S., Rades, E.F., Fattahi, M., Ruiz López, J.F., 2023. Rock surface luminescence dating of prehistoric rock art from central Iberia. *Archaeometry* 65, 319-334, <http://doi.org/10.1111/arcm.12826>
- Moayed, N.K., Vandenberghe, D., Deforce, K., Kaptijn, E., Biernacka, P., De Clercq, W., De Grave, J., 2023. OSL dating as an alternative tool for age determination of relic charcoal kilns. *Archaeometry* 65, 939-954, <http://doi.org/10.1111/arcm.12860>
- Neto de Carvalho, C., Muñiz, F., Cáceres, L.M., Rodríguez-Vidal, J., Medialdea, A., Val, M.d., Cunha, P.P., García, J.M., Giles-Guzmán, F., Carrión, J.S., Belaústegui, Z., Toscano, A., Gómez, P., Galán, J.M., Belo, J., Cachão, M., Ruiz, F., Ramirez-Cruzado, S., Finlayson, G., Finlayson, S., Finlayson, C., 2023. Neanderthal footprints in the “Matalascañas trampled surface” (SW Spain): new OSL dating and Mousterian lithic industry. *Quaternary Science Reviews* 313, 108200, <http://doi.org/10.1016/j.quascirev.2023.108200>
- Nightingale, S., Schilt, F., Thompson, J.C., Wright, D.K., Forman, S., Mercader, J., Moss, P., Clarke, S., Itambu, M., Gomani-Chindebvu, E., Welling, M., 2019. Late Middle Stone Age Behavior and Environments at Chaminade I (Karonga, Malawi). *Journal of Paleolithic Archaeology* 2, 258-297, <http://doi.org/10.1007/s41982-019-00035-3>
- Oron, M., Roskin, J., Porat, N., Avni, Y., Aladjem, E., Yegorov, D., Vardi, J., Hovers, E., 2023. A conceptual model of multi-scale formation processes of open-air Middle Paleolithic sites in the arid Negev desert, Israel. *Quaternary Research* 116, 162-180, <http://doi.org/10.1017/qua.2023.31>
- Pavlenok, K., Kot, M., Moska, P., Leloch, M., Muhtarov, G., Kogai, S., Khudjanazarov, M., Holmatov, A., Szymczak, K., 2022. New evidence for mountain Palaeolithic human occupation in the western Tian Shan piedmonts, eastern Uzbekistan. *Antiquity* 96, 1292-1300, <http://doi.org/10.15184/aqy.2022.99>
- Polymeris, G.S., Liritzis, I., Iliopoulos, I., Xanthopoulou, V., Bednarik, R.G., Kumar, G., Vafiadou, A., 2023. Constraining the minimum age of Daraki-Chattan rock art in India by OSL dating and petrographic analyses. *Quaternary Geochronology* 78, 101472, <http://doi.org/10.1016/j.quageo.2023.101472>
- Quinn, M., Owen, T., Flanagan, J., Westaway, K.E., 2023. An Aboriginal presence in the Sydney basin prior to the LGM; further investigations into the age and formation of the Parramatta Sand Body. *Journal of Archaeological Science: Reports* 51, 104195, <http://doi.org/10.1016/j.jasrep.2023.104195>
- Ranhorn, K.L., Mavuso, S.S., Colarossi, D., Dogandžić, T., O'Brien, K., Ribordy, M., Ssebuyungo, C., Warren, S., Harris, J.W.K., Braun, D.R., Ndiema, E., 2023. By the lakeshore: Multi-scalar geoarchaeology in the Turkana Basin at GaJj17, Koobi Fora (Kenya). *Quaternary Science Reviews* 317, 108257, <http://doi.org/10.1016/j.quascirev.2023.108257>
- Santamaría, M., Navazo, M., Arnold, L.J., Benito-Calvo, A., Demuro, M., Carbonell, E., 2023. Low-cost technologies in a rich ecological context: Hotel California open-air site at Sierra de Atapuerca, Burgos, Spain. *Journal of Quaternary Science* 38, 658-684, <http://doi.org/10.1002/jqs.3501>
- Shipton, C., O'Connor, S., Jankowski, N., O'Connor-Veth, J., Maloney, T., Kealy, S., Boulanger, C., 2019. A new 44,000-year sequence from Asitau Kuru (Jerimalai), Timor-Leste, indicates long-term continuity in

- human behaviour. Archaeological and Anthropological Sciences 11, 5717-5741, <http://doi.org/10.1007/s12520-019-00840-5>
- Shtienberg, G., Yasur-Landau, A., Norris, R.D., Lazar, M., Rittenour, T.M., Tamberino, A., Gadol, O., Cantu, K., Arkin-Shalev, E., Ward, S.N., Levy, T.E., 2020. A Neolithic mega-tsunami event in the eastern Mediterranean: Prehistoric settlement vulnerability along the Carmel coast, Israel. PLOS ONE 15, e0243619, <http://doi.org/10.1371/journal.pone.0243619>
- Smedley, R.K., Fenn, K., Stanistreet, I.G., Stollhofen, H., Njau, J.K., Schick, K., Toth, N., 2024. Age-depth model for uppermost Ndutu Beds constrains Middle Stone Age technology and climate-induced paleoenvironmental changes at Olduvai Gorge (Tanzania). Journal of Human Evolution 186, 103465, <http://doi.org/10.1016/j.jhevol.2023.103465>
- Terradillos-Bernal, M., Demuro, M., Arnold, L.J., Jordá-Pardo, J.F., Clemente-Conte, I., Benito-Calvo, A., Díez Fernández-Lomana, J.C., 2023. San Quirce (Palencia, Spain): new chronologies for the Lower to Middle Palaeolithic transition of south-west Europe. Journal of Quaternary Science 38, 21-37, <http://doi.org/10.1002/jqs.3460>
- Todisco, D., Malol, C., Lahaye, C., Guérin, G., Bachellerie, F., Morin, E., Gravina, B., Challier, A., Beauval, C., Bordes, J.-G., Colange, C., Dayet, L., Flas, D., Lacrampe-Cuyaubère, F., Lebreton, L., Marot, J., Maureille, B., Michel, A., Muth, X., Nehme, C., Rigaud, S., Tartar, E., Teyssandier, N., Thomas, M., Rougier, H., Crevecoeur, I., 2023. A multiscalar and multiproxy geoarchaeological approach to site formation processes at the Middle and Upper Palaeolithic site of La Roche-à-Pierrot, Saint-Césaire, France. Quaternary Science Reviews 315, 108218, <http://doi.org/10.1016/j.quascirev.2023.108218>
- Tsakalos, E., Efstratiou, N., Bassiakos, Y., Kazantzaki, M., Filippaki, E., 2021. Early Cypriot Prehistory: On the Traces of the Last Hunters and Gatherers on the Island—Preliminary Results of Luminescence Dating. Current Anthropology 62, 412-425, <http://doi.org/10.1086/716100>
- Urbanová, P., Boaretto, E., Artioli, G., 2020. The state-of-the-art of dating techniques applied to ancient mortars and binders: A review. Radiocarbon 62, 503-525, <http://doi.org/10.1017/RDC.2020.43>
- Vichaidid, T., Saeingjaew, P., 2022. Thermoluminescence and electron spin resonance dating of freshwater fossil shells from Pa Toh Roh Shelter archaeological site in southern Thailand. Heliyon 8, e10555, <http://doi.org/10.1016/j.heliyon.2022.e10555>
- Wei, J., Jin, J., Hou, C., Xu, D., 2023. Prehistoric human activities and environmental background during the Late Neolithic to Bronze period in the Minjiang River Basin, Southeast China, based on luminescence ages and chemical elemental analysis of pottery. Quaternary Science Reviews 319, 108325, <http://doi.org/10.1016/j.quascirev.2023.108325>

ESR, applied in various contexts

- Benito-Calvo, A., Moreno, D., Fujioka, T., López, G.I., Martín-González, F., Martínez-Fernández, A., Hernando-Alonso, I., Karampaglidis, T., Bermúdez de Castro, J.M., Gutiérrez, F., 2022. Towards the steady state? A long-term river incision deceleration pattern during Pleistocene entrenchment (Upper Ebro River, Northern Spain). Global and Planetary Change 213, 103813, <http://doi.org/10.1016/j.gloplacha.2022.103813>
- Demeter, F., Zanolli, C., Westaway, K.E., Joannes-Boyau, R., Duringer, P., Morley, M.W., Welker, F., Rüther, P.L., Skinner, M.M., McColl, H., Gaunitz, C., Vinner, L., Dunn, T.E., Olsen, J.V., Sikora, M., Ponche, J.-L., Suzzoni, E., Frangeul, S., Boesch, Q., Antoine, P.-O., Pan, L., Xing, S., Zhao, J.-X., Bailey, R.M., Boualaphane, S., Sichanthongtip, P., Sihanam, D., Patole-Edoumba, E., Aubaile, F., Crozier, F., Bourgon, N., Zachwieja, A., Luangkhoth, T., Souksavatdy, V., Sayavongkhamdy, T., Cappellini, E., Bacon, A.-M., Hublin, J.-J., Willerslev, E., Shackelford, L., 2022. A Middle Pleistocene Denisovan molar from the Annamite Chain of northern Laos. Nature Communications 13, 2557, <http://doi.org/10.1038/s41467-022-29923-z>
- Duval, M., Sahnouni, M., Parés, J.M., Zhao, J.-x., Grün, R., Abdessadok, S., Pérez-González, A., Derradji, A., Harichane, Z., Mazouni, N., Boulaghraief, K., Cheheb, R.C., van der Made, J., 2023. On the age of Ain Hanech Oldowan locality (Algeria): First numerical dating results. Journal of Human Evolution 180, 103371, <http://doi.org/10.1016/j.jhevol.2023.103371>
- Freidline, S.E., Westaway, K.E., Joannes-Boyau, R., Duringer, P., Ponche, J.-L., Morley, M.W., Hernandez, V.C., McAllister-Hayward, M.S., McColl, H., Zanolli, C., Gunz, P., Bergmann, I., Sichanthongtip, P., Sihanam, D., Boualaphane, S., Luangkhoth, T., Souksavatdy, V., Dosseto, A., Boesch, Q., Patole-Edoumba, E., Aubaile, F., Crozier, F., Suzzoni, E., Frangeul, S., Bourgon, N., Zachwieja, A., Dunn, T.E., Bacon, A.-M., Hublin, J.-J., Shackelford, L., Demeter, F., 2023. Early presence of Homo sapiens in

- Southeast Asia by 86–68 kyr at Tam Pà Ling, Northern Laos. *Nature Communications* 14, 3193, <http://doi.org/10.1038/s41467-023-38715-y>
- Grün, R., Pike, A., McDermott, F., Eggins, S., Mortimer, G., Aubert, M., Kinsley, L., Joannes-Boyau, R., Rumsey, M., Denys, C., Brink, J., Clark, T., Stringer, C., 2020. Dating the skull from Broken Hill, Zambia, and its position in human evolution. *Nature* 580, 372-375, <http://doi.org/10.1038/s41586-020-2165-4>
- Grün, R., Stringer, C., 2023. Direct dating of human fossils and the ever-changing story of human evolution. *Quaternary Science Reviews* 322, 108379, <http://doi.org/10.1016/j.quascirev.2023.108379>
- Han, F., Bahain, J.-J., Shao, Q., Sun, X., Voinchet, P., Xiao, P., Huang, M., Li, M., Yin, G., 2022. The Chronology of Early Human Settlement in Three Gorges Region, China—Contribution of Coupled Electron Spin Resonance and Uranium-Series Dating Method. *Frontiers in Earth Science* 10, <http://doi.org/10.3389/feart.2022.939766>
- Liu, C.-R., Tian, Y.-Y., Ji, H., Ma, X., Wei, C.-Y., Dang, J.-X., Yin, G.-M., Zhou, Y.-S., Yuan, R.-M., 2023. Chronology analysis of huge landslide based on ESR dating materials on sliding face in carbonate areas of south eastern Tibet. *Quaternary Geochronology* 76, 101442, <http://doi.org/10.1016/j.quageo.2023.101442>
- Vichaidid, T., Saeingjaew, P., 2022. Thermoluminescence and electron spin resonance dating of freshwater fossil shells from Pa Toh Roh Shelter archaeological site in southern Thailand. *Heliyon* 8, e10555, <http://doi.org/10.1016/j.heliyon.2022.e10555>

Basic research

- Ageby, L., Shanmugavel, J., Jain, M., Murray, A.S., Rades, E.F., 2024. Towards the optically stimulated luminescence dating of unheated flint. *Quaternary Geochronology* 79, 101471, <http://doi.org/10.1016/j.quageo.2023.101471>
- Almeida, A.L.P.C., Tatumi, S.H., Soares, A.F., Barbosa, R., 2022. TL and OSL analysis of natural orange calcite crystal. *Brazilian Journal of Radiation Sciences* 10, 1-15, <http://doi.org/10.15392/bjrs.v10i2A.1797>
- Bartz, M., Peña, J., Grand, S., King, G.E., 2023. Potential impacts of chemical weathering on feldspar luminescence dating properties. *Geochronology* 5, 51-64, <http://doi.org/10.5194/gchron-5-51-2023>
- Buchanan, G.R., Tsukamoto, S., Zhang, J., Long, H., 2024. Testing infrared radiofluorescence dating on polymineral fine-grains from the Luochuan loess-palaeosol sequence, Chinese loess plateau. *Quaternary Geochronology* 79, 101485, <http://doi.org/10.1016/j.quageo.2023.101485>
- Devi, M., Chauhan, N., Singhvi, A.K., 2024. Post-violet infrared stimulated luminescence (pVIRSL) dating protocol for potassium feldspar. *Quaternary Geochronology* 79, 101487, <http://doi.org/10.1016/j.quageo.2023.101487>
- Duller, G.A.T., Roberts, H.M., Chapot, M.S., 2023. Characterising and correcting for a previously unconsidered source of scatter in measurements of equivalent dose. *Radiation Measurements* 167, 106985, <http://doi.org/10.1016/j.radmeas.2023.106985>
- Freiesleben, T.H., Thomsen, K.J., Sellwood, E., Liu, J., Murray, A.S., 2023. Testing new kinetic models and calibration methods for Rock Surface Luminescence Exposure dating using controlled experiments. *Radiation Measurements* 169, 107033, <http://doi.org/10.1016/j.radmeas.2023.107033>
- Goswami, K., Panda, S.K., Alappat, L., Chauhan, N., 2024. Luminescence for sedimentary provenance quantification in river basins: A methodological advancement. *Quaternary Geochronology* 79, 101488, <http://doi.org/10.1016/j.quageo.2023.101488>
- Hou, C., Jin, J., Ling, Z., Wei, J., Xu, D., 2024. Spatio-temporal variation in quartz luminescence sensitivity in the coastal area of China. *CATENA* 234, 107585, <http://doi.org/10.1016/j.catena.2023.107585>
- Lawless, J.L., Timar-Gabor, A., 2024. A new analytical model to fit both fine and coarse grained quartz luminescence dose response curves. *Radiation Measurements* 170, 107045, <http://doi.org/10.1016/j.radmeas.2023.107045>
- Mandowska, E., Smyka, R., Mandowski, A., 2022. Investigating the filling state of OSL detector traps with the optical sampling method. *Metrology and Measurement Systems* 29, 361-371, <http://doi.org/10.24425/mms.2022.140039>
- Pagonis, V., Polymeris, G.S., Kitis, G., Sahare, P.D., 2023. The effect of particle size on the radiation dose response of luminescence signals from nanophosphors. *Radiation Measurements* 166, 106965, <http://doi.org/10.1016/j.radmeas.2023.106965>

- Riedesel, S., Duller, G.A.T., Ankjærgaard, C., 2023. Time-resolved infrared stimulated luminescence of the blue and yellow-green emissions – Insights into charge recombination in chemically and structurally different alkali feldspars. Journal of Luminescence 257, 119724, <http://doi.org/10.1016/j.jlumin.2023.119724>
- Spooner, N.A., Williams, O.M., Questiaux, D.G., 2024. Pulsed infrared stimulated luminescence measurements for defect pair model studies in feldspars. Radiation Measurements 170, 107044, <http://doi.org/10.1016/j.radmeas.2023.107044>
- Zhang, J., Li, S.-H., Sun, J., Lü, T., Zhou, X., Hao, Q., 2023. Quartz luminescence sensitivity variation in the Chinese loess deposits: the potential role of wildfires. Journal of Quaternary Science 38, 49-60, <http://doi.org/10.1002/jqs.3462>
- Zhang, J., Tsukamoto, S., Long, H., 2023. Testing the potential of pulsed post-IR IRSL dating on Chinese loess deposits. Quaternary Geochronology 78, 101469, <http://doi.org/10.1016/j.quageo.2023.101469>

beyond quartz and K-feldspar: non-traditional minerals

- flint

- Ageby, L., Shanmugavel, J., Jain, M., Murray, A.S., Rades, E.F., 2024. Towards the optically stimulated luminescence dating of unheated flint. Quaternary Geochronology 79, 101471, <http://doi.org/10.1016/j.quageo.2023.101471>

Dose rate

- Martin, L., Sanderson, D.C.W., Paling, S., Cresswell, A., Fitzgerald, S.K., 2023. Quantitative beta autoradiography of a heterogeneous granulite sample and implications for luminescence dating. Radiation Measurements 168, 107001, <http://doi.org/10.1016/j.radmeas.2023.107001>
- Preusser, F., Degeling, D., Fülling, A., Miocic, J., 2023. Complex dose rate calculations in luminescence dating of lacustrine and palustrine sediments from Niederweningen, Northern Switzerland. Geochronometria 50, 28-49, <http://doi.org/10.2478/geochr-2023-0003>
- Szymak, A., Moska, P., Poręba, G., Tudyka, K., Adamiec, G., 2022. The internal dose rate in quartz grains: Experimental data and consequences for luminescence dating. Geochronometria 49, 9-17, <http://doi.org/10.2478/geochr-2022-0002>
- Tudyka, K., Koruszowic, M., Osadnik, R., Adamiec, G., Moska, P., Szymak, A., Bluszcz, A., Zhang, J., Kolb, T., Poręba, G., 2023. μRate: An online dose rate calculator for trapped charge dating. Archaeometry 65, 423-443, <http://doi.org/10.1111/arcm.12828>

Dosimetry

- Almeida, A.L.P.C., Tatumi, S.H., Soares, A.F., Barbosa, R., 2022. TL and OSL analysis of natural orange calcite crystal. Brazilian Journal of Radiation Sciences 10, 1-15, <http://doi.org/10.15392/bjrs.v10i2A.1797>
- Discher, M., Bassinet, C., Kim, H., 2023. Feasibility study of using earbuds and wireless headphones for retrospective dosimetry. Radiation Measurements 167, 107000, <http://doi.org/10.1016/j.radmeas.2023.107000>
- Kara, E., Woda, C., 2023. Further characterization of BeO detectors for applications in external and medical dosimetry. Radiation Measurements 165, 106950, <http://doi.org/10.1016/j.radmeas.2023.106950>
- Łepkowska, J., Jung, A., 2022. Influence of readout conditions on the thermoluminescence properties of mobile phone display glass for retrospective dosimetry. Measurement 204, 112083, <http://doi.org/10.1016/j.measurement.2022.112083>
- Mahmood, M.M., Kakakhel, M.B., Wazir-ud-Din, M., Hayat, S., Ahmad, K., ur-Rehman, S., Siddique, M.T., Masood, A., ul-Haq, A., Mirza, S.M., 2022. Thermoluminescence (TL), kinetic parameters and dosimetric features of Pakistani limestone. Applied Radiation and Isotopes 188, 110357, <http://doi.org/10.1016/j.apradiso.2022.110357>
- Motta, S., Christensen, J.B., Yukihara, E.G., 2023. Testing the S/SR procedure using TLDs and OSLODs and a lexsyg smart automated reader for precise dosimetry. Radiation Measurements 168, 107013, <http://doi.org/10.1016/j.radmeas.2023.107013>
- Reimitz, D., Hupka, I., Ekendahl, D., 2022. OSL sensitivity of quartz extracted from fired bricks for retrospective dosimetry. Radiation Protection Dosimetry 198, 641-645, <http://doi.org/10.1093/rpd/ncac111>

Yukihara, E.G., 2023. TL and OSL as research tools in luminescence: Possibilities and limitations. *Ceramics International* 49, 24356-24369, <http://doi.org/10.1016/j.ceramint.2022.10.199>

Portable instruments

- Esiana, B.O.I., Oram, R.D., 2023. Soil and spatial analyses in the assessment of the focal point of the extinct medieval royal burgh of Roxburgh. *Journal of Archaeological Science: Reports* 50, 104104, <http://doi.org/10.1016/j.jasrep.2023.104104>
- Hudson, S.M., Waddington, C., Pears, B., Ellis, N., Parker, L., Hamilton, D., Alsos, I.G., Hughes, P., Brown, A., 2023. Lateglacial and Early Holocene palaeoenvironmental change and human activity at Killerby Quarry, North Yorkshire, UK. *Journal of Quaternary Science* 38, 403-422, <http://doi.org/10.1002/jqs.3488>
- Nitundil, S., Stone, A., Srivastava, A., 2023. Applicability of using portable luminescence reader for rapid age-assessments of dune accumulation in the Thar desert, India. *Quaternary Geochronology* 78, 101468, <http://doi.org/10.1016/j.quageo.2023.101468>

Review

- Feathers, J., 2023. The contributions of luminescence dating of sediments to understanding the first settlement of the Americas. *PaleoAmerica* 9, 81-114, <http://doi.org/10.1080/20555563.2023.2234740>
- Gray, H.J., Jain, M., Sawakuchi, A.O., Mahan, S.A., Tucker, G.E., 2019. Luminescence as a Sediment Tracer and Provenance Tool. *Reviews of Geophysics* 57, 987-1017, <http://doi.org/10.1029/2019RG000646>
- Grün, R., Stringer, C., 2023. Direct dating of human fossils and the ever-changing story of human evolution. *Quaternary Science Reviews* 322, 108379, <http://doi.org/10.1016/j.quascirev.2023.108379>
- Urbanová, P., Boaretto, E., Artioli, G., 2020. The state-of-the-art of dating techniques applied to ancient mortars and binders: A review. *Radiocarbon* 62, 503-525, <http://doi.org/10.1017/RDC.2020.43>
- Yukihara, E.G., 2023. TL and OSL as research tools in luminescence: Possibilities and limitations. *Ceramics International* 49, 24356-24369, <http://doi.org/10.1016/j.ceramint.2022.10.199>

Simulation and modelling

- Guibert, P., Guérin, G., Javel, J.-B., Urbanová, P., 2020. Modeling light exposure of quartz grains during mortar making: Consequences for optically stimulated luminescence dating. *Radiocarbon* 62, 693-711, <http://doi.org/10.1017/RDC.2020.34>
- Guyez, A., Bonnet, S., Reimann, T., Carretier, S., Wallinga, J., 2023. A novel approach to quantify sediment transfer and storage in rivers—testing feldspar single-grain pirit analysis and numerical simulations. *Journal of Geophysical Research: Earth Surface* 128, e2022JF006727, <http://doi.org/10.1029/2022JF006727>
- Li, B., Jacobs, Z., Roberts, R.G., 2023. A Bayesian hierarchical age model for optical dating of single grains of quartz. *Quaternary Geochronology* 77, 101455, <http://doi.org/10.1016/j.quageo.2023.101455>
- Peng, J., Li, B., Jacobs, Z., Andrew Gliganic, L., 2023. Optical dating of sediments affected by post-depositional mixing: Modelling, synthesizing and implications. *CATENA* 232, 107383, <http://doi.org/10.1016/j.catena.2023.107383>