Bibliography

Compiled by Sebastien Huot

From December 1, 2022 to May 31, 2023

Various geological applications

- aeolian

Dabhi, M., Thakkar, A., Chavan, A., Chauhan, G., Bhagora, R., Chauhan, N., Shukla, A.D., Bhandari, S., Thakkar, M.G., 2022. Mid-late Holocene climatic reconstruction from coastal dunes of the western Kachchh, India. Quaternary International 642, 29-40, http://doi.org/10.1016/j.quaint.2021.09.011

Feng, M., Lü, T., Sun, J., Cui, C., 2023. Optically stimulated luminescence dating and paleoclimatic implications of the Holocene dune sands in the Hunshandake Sandy Land, Northeast China. Palaeogeography, Palaeoclimatology, Palaeoecology 615, 111469, http://doi.org/10.1016/j.palaeo.2023.111469

Gao, Y., Zhang, K., Wu, Z., Tian, T., Li, B., 2023. Factors controlling the Early-Mid Holocene aeolian sediment accumulation in the Pum Qu catchment and environmental implications for the southern Tibetan Plateau. Quaternary International 652, 17-32, http://doi.org/10.1016/j.quaint.2023.01.013

Liu, B., Zhao, H., Jin, H., Liang, A., Sun, A., Zhang, X., Zhang, C., Jin, J., Yang, H., Li, S., 2023. Quantitative estimates of Holocene precipitation from aeolian sand-palaeosol sequences across the Ordos Plateau, northern China, based on surface soil geochemistry. CATENA 229, 107232, http://doi.org/10.1016/j.catena.2023.107232

Mescolotti, P.C., Giannini, P.C.F., Pupim, F.d.N., Sawakuchi, A.O., Ladeira, F.S.B., Assine, M.L., 2023. The largest Quaternary inland eolian system in Brazil: Eolian landforms and activation/stabilization phases of the Xique-Xique dune field. Geomorphology 420, 108516, http://doi.org/10.1016/j.geomorph.2022.108516

Ohata, K., Hori, K., Ishii, Y., Tamura, T., 2023. Sedimentary characteristics and formation of riverine source bordering dunes in a humid region: an example from the lower reaches of Kiso River, central Japan. Geomorphology 426, 108602, http://doi.org/10.1016/j.geomorph.2023.108602

Robins, L., Roskin, J., Marder, O., Edeltin, L., Yu, L., Greenbaum, N., 2023. Geomorphic, environmental, and archeological significance of Last Glacial Maximum to middle Holocene dune damming, northwestern Negev dunefield margin, Israel. Quaternary Science Reviews 308, 108098, http://doi.org/10.1016/j.quascirev.2023.108098

Sevink, J., Wallinga, J., Reimann, T., van Geel, B., Brinkkemper, O., Jansen, B., Romar, M., Bakels, C.C., 2023. A multi-staged drift sand geo-archive from the Netherlands: New evidence for the impact of prehistoric land use on the geomorphic stability, soils, and vegetation of aeolian sand landscapes. CATENA 224, 106969, http://doi.org/10.1016/j.catena.2023.106969

Shu, P., Kang, S., Shi, Z., Grimley, D.A., Zhang, Z., Zhao, J., Wang, H., Zhou, W., An, Z., 2023. Southward migration of the monsoonal rainbelt hinders paleosol development and preservation in north-central China dunefield after the Middle-Late Holocene Transition. Quaternary Science Reviews 301, 107919, http://doi.org/10.1016/j.quascirev.2022.107919

Zhang, J., E, C., Yang, F., XianBa, j., Shi, Y., Xie, L., 2023. OSL ages and pedogenic mode of Kobresia mattic epipedon on the northeastern Qinghai-Tibetan Plateau. CATENA 223, 106912, http://doi.org/10.1016/j.catena.2023.106912

- alluvial fan

Ginter, A., Piech, W., Krąpiec, M., Moska, P., Sikorski, J., Hrynowiecka, A., Stachowicz-Rybka, R., Cywa, K., Piotrowska, N., Mroczkowska, A., Tołoczko, W., Okupny, D., Mazurkevich, A., Kittel, P., 2023. Intense and quick land relief transformation in the Little Ice Age: The age of accumulative fan deposits in Serteyka River Valley (Western East European Plain). Quaternary International 644-645, 160-177, http://doi.org/10.1016/j.quaint.2022.02.015

Sanjurjo-Sánchez, J., Viveen, W., Vega-Centeno Sara-Lafosse, R., 2022. Testing the accuracy of OSL and pIR IRSL dating of young geoarchaeological sediments in coastal Peru. Quaternary Geochronology 73, 101382, http://doi.org/10.1016/j.quageo.2022.101382

- cave

del Val, M., Alonso, M.J., Duval, M., Arriolabengoa, M., Álvarez, I., Bodego, A., Cheng, H., Hermoso de Mendoza, A., Aranburu, A., Iriarte, E., 2022. Luminescence and ESR dating of the sedimentary infill from the multi-level cave system of Alkerdi-Zelaieta (Navarre, N Spain). Quaternary Geochronology 73, 101380, http://doi.org/10.1016/j.quageo.2022.101380

Mahan, S., Wood, J.R., Lovelace, D.M., Laden, J., McGuire, J.L., Meachen, J.A., 2023. Luminescence ages and new interpretations of the timing and deposition of Quaternary sediments at Natural Trap Cave, Wyoming. Quaternary International 647-648, 22-35, http://doi.org/10.1016/j.quaint.2022.01.005

Vieira de Sousa, D., Spinola, D., dos Santos, J.C., Hatsui Tatumi, S., Yee, M., Aline Pessoa Oliveira, R., Eltink, E., do Vale Lopes, D., Spötl, C., Cherkinsky, A., Figueirado Reis, H., de Oliviera Silva, J., Auler, A., William da Cruz, F., 2023. Relict soil features in cave sediments record periods of wet climate and dense vegetation over the last 100 kyr in a present-day semiarid region of northeast Brazil. CATENA 226, 107092, http://doi.org/10.1016/j.catena.2023.107092

- coastal

Butuzova, E.A., Kurbanov, R.N., Taratunina, N.A., Makeev, A.O., Rusakov, A.V., Lebedeva, M.P., Murray, A.S., Yanina, T.A., 2022. Shedding light on the timing of the largest Late Quaternary transgression of the Caspian Sea. Quaternary Geochronology 73, 101378, http://doi.org/10.1016/j.quageo.2022.101378

Hidayat, R., Murray-Wallace, C.V., Jacobs, Z., 2023. Late Pleistocene evolution of Robe Range, southern Australia – The timing and carbonate source dynamics of coastal dune development. Marine Geology 456, 106987, http://doi.org/10.1016/j.margeo.2022.106987

Lin, P., Song, Y., Zhan, W., Tian, R., Wang, Z., Xu, X., Luo, L., Abbas, M., Lai, Z., 2023. Late Pleistocene to Holocene sedimentary history in the Pearl River Delta revealed by OSL and radiocarbon dating. CATENA 224, 106972, http://doi.org/10.1016/j.catena.2023.106972

McKenzie, K.A., Kelsey, H.M., Kirby, E., Rittenour, T.M., Furlong, K.P., 2022. Differential coastal uplift quantified by luminescence dating of marine terraces, central Cascadia forearc, Oregon. Quaternary Science Reviews 298, 107853, http://doi.org/10.1016/j.quascirev.2022.107853

Qiu, J., Jin, J., Wang, X., Wei, C., Zuo, X., Wei, J., 2022. OSL chronological evidence reveals one of the earliest island-type Neolithic sites in the coastal area of South China. The Holocene 33, 27-37, http://doi.org/10.1177/09596836221126126

Rahimzadeh, N., Tsukamoto, S., Thiel, C., Frechen, M., 2023. Progress and pitfalls of the SAR protocol for the quartz violet stimulated luminescence (VSL) signal: A case study from Sardinia. Quaternary Geochronology 75, 101433, http://doi.org/10.1016/j.quageo.2023.101433

Yoon, H.H., Kim, J.C., Yoo, D.-G., Lee, G.-S., Hong, S.-H., 2022. Multi dating approach of long marine core sediments from the south-eastern continental shelf of Korea: Comparison of SAR OSL, TT-OSL and pIRIR dates. Quaternary Geochronology 73, 101338, http://doi.org/10.1016/j.quageo.2022.101338

- earthquake (and fault related)

Abbas, W., Zhang, J., Tsukamoto, S., Ali, S., Frechen, M., Reicherter, K., 2023. Pleistocene-Holocene deformation and seismic history of the Kalabagh Fault in Pakistan using OSL and post-IR IRSL dating. Quaternary International 651, 42-61, http://doi.org/10.1016/j.quaint.2022.01.007

Gutiérrez, F., Deirnik, H., Zarei, M., Medialdea, A., 2023. Geology, geomorphology and geochronology of the coseismic? Emad Deh rock avalanche associated with a growing anticline and a rising salt diapir, Zagros Mountains, Iran. Geomorphology 421, 108527, http://doi.org/10.1016/j.geomorph.2022.108527

Jahan, N., Rana, Y.P., Singh, R.J., 2023. Structural evidences of active tectonics along Himalayan Frontal Thrust of northwest Himalaya: A case study along Kumia river section, Nainital, India. Journal of Earth System Science 132, 57, http://doi.org/10.1007/s12040-023-02078-1

Ma, Z., Peng, T., Feng, Z., Li, X., Song, C., Wang, Q., Tian, W., Zhao, X., 2023. Tectonic and climate controls on river terrace formation on the northeastern Tibetan Plateau: Evidence from a terrace record of the Huangshui River. Quaternary International 656, 16-25, http://doi.org/10.1016/j.quaint.2022.11.004

Malik, J.N., Mohanty, A., Sahoo, S., Gadhavi, M.S., Dhali, M., Arora, S., Naik, S.P., 2023. Signatures of 16th and 19th centuries paleo-earthquakes along the Himalayan Frontal Thrust (HFT), NW Himalaya, India: Implications to seismic hazard assessment. Quaternary International 656, 37-47, http://doi.org/10.1016/j.quaint.2023.02.001

- fluvial

Achyuthan, H., 2022. Middle to late Holocene alluvial history of the northeast monsoon dominated coastal tropical rivers of south India. Quaternary International 642, 63-72, http://doi.org/10.1016/j.quaint.2021.09.012

Be'eri-Shlevin, Y., Matmon, A., Rotstein, R., Schimmelpfennig, I., Benedetti, L., Geller, Y., Porat, N., Greenbaum, N., 2023. Denudation of the Golan Heights basaltic terrain using in-situ 36Cl and OSL dating. Geomorphology 430, 108649, http://doi.org/10.1016/j.geomorph.2023.108649

Chauhan, N., Sundriyal, Y., Kaushik, S., Chahal, P., Panda, D.K., Banerjee, D., Narayanan, A., Shukla, A.D., 2023. Chronology and paleoclimatic implications of the upper Ganga catchment floods since Marine Isotopic Stage-2. Palaeogeography, Palaeoclimatology, Palaeoecology 620, 111566, http://doi.org/10.1016/j.palaeo.2023.111566

Dabhi, M., Chavan, A., Thakkar, A., Chauhan, G., Bhagora, R., Chauhan, N., Shukla, A.D., Bhandari, S., 2022. Climatic history from early Weichselian (MIS 5D-C) valley-fill deposits and associated factors for basin sedimentation, mainland Kachchh, western India. Quaternary International 642, 17-28, http://doi.org/10.1016/j.quaint.2021.10.019

Guo, Y., Ge, Y., Mao, P., Liu, T., 2023. Reconstruction of mid-Holocene extreme flood events in the upper Minjiang River valley, eastern Tibetan Plateau, China. Palaeogeography, Palaeoclimatology, Palaeoecology 617, 111517, http://doi.org/10.1016/j.palaeo.2023.111517

Hernando-Alonso, I., Moreno, D., Ortega, A.I., Benito-Calvo, A., Alonso, M.J., Parés, J.M., Martínez-Fernández, A., Carbonell, E., Bermúdez de Castro, J.M., 2022. ESR chronology of the fluvial sequence of Cueva del Silo (Sierra de Atapuerca, Spain). Quaternary Geochronology 73, 101374, http://doi.org/10.1016/j.quageo.2022.101374

Kumar, K., Sharma, A., Srivastava, P., Thakur, B., 2023. Implications for catchment weathering, provenance, and climatic records from a late Pleistocene to present sedimentary sequence in Gujarat, India. Quaternary Research 111, 148-165, http://doi.org/10.1017/qua.2022.39

Lombardi, R., Davis, M.A.L., 2022. Incorporating alluvial hydrogeomorphic complexities into paleoflood hydrology, magnitude estimation and flood frequency analysis, Tennessee River, Alabama. Journal of Hydrology 612, 128085, http://doi.org/10.1016/j.jhydrol.2022.128085

Pang, H., Gao, H., Eduardo, G., Li, F., Pan, B., 2023. Fluvial-aeolian interactions in northern China (Upper Yellow River): Implications for provenance and paleoenvironmental interpretations. CATENA 231, 107257, http://doi.org/10.1016/j.catena.2023.107257

Stinchcomb, G.E., Quade, J., Levin, N.E., Iverson, N., Dunbar, N., McIntosh, W., Arnold, L.J., Demuro, M., Duval, M., Grün, R., Zhao, J.-x., White, M., Hynek, S.A., Brown, F.H., Rogers, M.J., Semaw, S., 2023. Fluvial response to Quaternary hydroclimate in eastern Africa: Evidence from Gona, Afar, Ethiopia. Quaternary Science Reviews 309, 108083, http://doi.org/10.1016/j.quascirev.2023.108083

Svistunov, M.I., Kurbanov, R.N., Murray, A.S., Taratunina, N.A., Semikolennykh, D.V., Entin, A.L., Deev, Y.V., Zolnikov, I.D., Panin, A.V., 2022. Constraining the age of Quaternary megafloods in the Altai Mountains (Russia) using luminescence. Quaternary Geochronology 73, 101399, http://doi.org/10.1016/j.quageo.2022.101399

Utkina, A.O., Panin, A.V., Kurbanov, R.N., Murray, A.S., 2022. Unexpectedly old luminescence ages as an indicator of the origin of the upper Volga River valley sediments. Quaternary Geochronology 73, 101381, http://doi.org/10.1016/j.quageo.2022.101381

Wang, Y., Li, G., Wang, X., Yan, Z., Qin, C., Yang, J., Yang, H., Deng, Y., Pan, L., Chen, C., Zhao, W., Hou, G., 2022. Single-grain K-feldspar pIRIR dating of the Shalongka archeological site revealed the relationship between monsoon, overbank flooding, and human occupation during the Holocene on the northeastern Tibetan Plateau. Quaternary Science Reviews 298, 107848, http://doi.org/10.1016/j.quascirev.2022.107848

- glacial and periglacial

Kenzler, M., Gibb, M.A., Gehrmann, A., Deutschmann, A., Rother, H., Obst, K., Hüneke, H., 2023. Identification of Quaternary alluvial-fan deposits (Rügen, SW Baltic Sea): Significance for recognition of syn-kinematic sedimentation in glacitectonic complexes. Geomorphology 424, 108558, http://doi.org/10.1016/j.geomorph.2022.108558

Kumar, P., Sharma, M.C., Deswal, S., Manna, I., Chakraborty, E., Prakash, S., 2023. Last Glacial Maximum and subsequent glacial chronology in the monsoon-dominated Sikkim Himalaya, India. Palaeogeography, Palaeoclimatology, Palaeoecology 617, 111480, http://doi.org/10.1016/j.palaeo.2023.111480

Pánek, T., Březný, M., Smedley, R., Winocur, D., Schönfeldt, E., Agliardi, F., Fenn, K., 2023. The largest rock avalanches in Patagonia: Timing and relation to Patagonian Ice Sheet retreat. Quaternary Science Reviews 302, 107962, http://doi.org/10.1016/j.quascirev.2023.107962

Rex, C.L., Bateman, M.D., Buckland, P.C., Panagiotakopulu, E., Livingstone, S.J., Hardiman, M., Eddey, L., 2023. A revision of the British chronostratigraphy within the last glacial-interglacial cycle based on new evidence from Arclid, Cheshire UK. Quaternary Science Reviews 299, 107882, http://doi.org/10.1016/j.quascirev.2022.107882

Smith, L.N., Sohbati, R., Jain, M., 2023. Rock surface luminescence dating of gravel determines the age of a glacial outburst megaflood, Glacial Lake Missoula, Montana, USA. Geology 51, 323-328, http://doi.org/10.1130/G50721.1

- lacustrine

Hou, Y., Long, H., Tsukamoto, S., Gao, L., Zhang, J., Tamura, T., Frechen, M., 2023. Late Quaternary evolution of Daihai Lake in northern China and implications to the variation of the East Asian summer monsoon. Quaternary Science Reviews 309, 108097, http://doi.org/10.1016/j.quascirev.2023.108097

Wang, M., Wang, X., Pan, B., Yi, S., Van Balen, R., Zhao, Z., Dong, X., Vandenberghe, J., Wang, Y., Lu, H., 2023. Multiple paleolakes caused by glacier river-blocking on the southeastern Tibetan plateau in response to climate changes since the last glacial maximum. Quaternary Science Reviews 305, 108012, http://doi.org/10.1016/j.quascirev.2023.108012

- loess

Alberto Torres-Guerrero, C., Álvarez, D., Preusser, F., Ramón Olarieta, J., Poch, R.M., 2023. Evolution of soil porosity in loess-palaeosol sequences of the Ebro Valley, NE Iberia. CATENA 230, 107244, http://doi.org/10.1016/j.catena.2023.107244

Cheng, L., Yang, L., Long, H., Song, Y., Chen, Z., Lan, M., Xie, M., Dong, Z., 2023. Early Holocene dust activity variation in the southern Tibetan Plateau and its response to solar irradiance. Palaeogeography, Palaeoclimatology, Palaeoecology 620, 111561, http://doi.org/10.1016/j.palaeo.2023.111561

Cheng, L., Yang, L., Long, H., Zhang, J., Miao, X., Wu, Y., Lan, M., Song, Y., Dong, Z., 2023. Late Holocene change in South Asian monsoons and their influences on human activities in the southern Tibetan Plateau. CATENA 228, 107153, http://doi.org/10.1016/j.catena.2023.107153

Dave, A.K., Timar-Gabor, A., Kabacińska, Z., Scardia, G., Safaraliev, N., Nigmatova, S., Fitzsimmons, K.E., 2022. A Novel Proxy for Tracking the Provenance of Dust Based on Paired E1'-Peroxy Paramagnetic Defect Centers in Fine-Grained Quartz. Geophysical Research Letters 49, e2021GL095007, http://doi.org/10.1029/2021GL095007

Dave, A.K., Timar-Gabor, A., Scardia, G., Safaraliev, N., Fitzsimmons, K.E., 2022. Variation in Luminescence Characteristics and Paramagnetic Defect Centres in Fine-Grained Quartz From a Loess-Palaeosol Sequence in Tajikistan: Implications for Provenance Studies in Aeolian Environments. Frontiers in Earth Science 10, 835281, http://doi.org/10.3389/feart.2022.835281

Gu, Y., Lu, H., Hajdas, I., Haghipour, N., Zhang, H., Wu, J., Shao, K., 2023. Radiocarbon dating of small snail shells in a loess-palaeosol sequence at Mangshan, central China. CATENA 228, 107157, http://doi.org/10.1016/j.catena.2023.107157

Jiang, H.C., Yin, Q.Z., Berger, A., Wei, L.H., Wu, Z.P., Wei, X.T., Shi, W., 2023. Orbitally and galactic cosmic forced abrupt climate events during the last glacial period. Quaternary Science Reviews 301, 107921, http://doi.org/10.1016/j.quascirev.2022.107921

Kurbanov, R.N., Buylaert, J.P., Stevens, T., Taratunina, N.A., Belyaev, V.R., Makeev, A.O., Lebedeva, M.P., Rusakov, A.V., Solodovnikov, D., Költringer, C., Rogov, V.V., Streletskaya, I.D., Murray, A.S., Yanina, T.A., 2022. A detailed luminescence chronology of the Lower Volga loess-palaeosol sequence at Leninsk. Quaternary Geochronology 73, 101376, http://doi.org/10.1016/j.quageo.2022.101376

Li, Y., Song, Y., Fitzsimmons, K.E., Dave, A.K., Liu, Y., Zong, X., Sun, H., Liu, H., Orozbaev, R., 2022. Investigating Potential Links Between Fine-Grained Components in Loess and Westerly Airflow: Evidence From East and Central Asia. Frontiers in Earth Science 10, 901629, http://doi.org/10.3389/feart.2022.901629

Li, Y., Tsukamoto, S., Long, H., Zhang, J., Yang, L., 2022. Coarse-grained K-rich feldspar and fine-grained polymineral IRSL dating of loess-palaeosol from the Chinese Loess Plateau: A comparison. Quaternary Geochronology 73, 101379, http://doi.org/10.1016/j.quageo.2022.101379

Liu, X., Miao, X., Nie, J., Zhang, X., Wang, Y., Li, X., Ou, X., Lai, Z., 2023. Distribution and fate of Tibetan Plateau loess. CATENA 225, 107022, http://doi.org/10.1016/j.catena.2023.107022

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, http://doi.org/10.3389/feart.2021.755084

Maleki, S., Khormali, F., Kehl, M., Azizi, G., Shahpouri, F., Shahbazi, R., Frechen, M., 2023. A loess-paleosol record of climate and vegetation change during the past 27,000 years from South-East of the Caspian Sea, Iran. Quaternary International 652, 1-16, http://doi.org/10.1016/j.quaint.2022.12.011

Meshcheryakova, O.A., Volvakh, N.E., Kurbanov, R.N., Zykina, V.S., Zykin, V.S., Murray, A.S., Volvakh, A.O., Malikov, D.G., Buylaert, J.P., 2022. The upper Pleistocene loess-palaeosol sequence at solonovka on the Cis-Altai plain, west Siberia – First luminescence dating results. Quaternary Geochronology 73, 101384, http://doi.org/10.1016/j.quageo.2022.101384

Volvakh, N.E., Kurbanov, R.N., Zykina, V.S., Murray, A.S., Stevens, T., Költringer, C.A., Volvakh, A.O., Malikov, D.G., Taratunina, N.A., Buylaert, J.P., 2022. First high-resolution luminescence dating of loess in Western Siberia. Quaternary Geochronology 73, 101377, http://doi.org/10.1016/j.quageo.2022.101377

Wang, L., Chen, S., Zhao, H., Li, S.-H., Zhang, J., 2023. Comparison of feldspar dating protocols for loess samples older than 70 ka from the Tianshan Mountains, arid central Asia. Quaternary International 652, 41-51, http://doi.org/10.1016/j.quaint.2023.01.014

Wu, C., Wang, Z., Wang, Q., Qian, P., Zheng, X., Wei, G., 2023. Sedimentary provenance and age of the Shengshan Island loess on the continental shelf of the East China Sea: Implications for windblown dust transport during the Last Glaciation. Geomorphology 427, 108624, http://doi.org/10.1016/j.geomorph.2023.108624

- marine

Liu, J., Qiu, J., Saito, Y., Zhang, X., Wang, H., Wang, F., Chen, L., Xu, G., Chen, B., Li, M., An, Y., 2023. Late Pleistocene to Holocene facies architecture and sedimentary evolution of the Zhejiang coast, East China Sea. Marine Geology 459, 107027, http://doi.org/10.1016/j.margeo.2023.107027

Yuan, X., Hu, R., Feng, X., Qiu, J., Wang, N., Yao, Z., Zhu, L., Li, J., 2023. Sedimentary records and implications for the evolution of sedimentary environments inferred from BH1302 during the late Quaternary in the Bohai Sea, China. Marine Geology 456, 106986, http://doi.org/10.1016/j.margeo.2022.106986

- soil

de Souza, J.J.L.L., de Castro, F.E., de Azevedo Andrade, C.V.P., Ker, J.C., Perez Filho, A., 2023. Brazilian semiarid soils formed during the last glacial maximum. CATENA 223, 106899, http://doi.org/10.1016/j.catena.2022.106899

Freire Guerra, M.D., Lelis Leal de Souza, J.J., Gonçalves Reynaud Schaefer, C.E., Nogueira de Souza, M.J., 2023. Remnant wetlands under palm swamps in the Araripe Plateau, Brazilian semiarid. CATENA 226, 107074, http://doi.org/10.1016/j.catena.2023.107074

- surface exposure dating

Freiesleben, T.H., Thomsen, K.J., Jain, M., 2023. Novel luminescence kinetic models for rock surface exposure dating. Radiation Measurements 160, 106877, http://doi.org/10.1016/j.radmeas.2022.106877

Freiesleben, T.H., Thomsen, K.J., Murray, A.S., Sohbati, R., Jain, M., Hvidt, S., Jakobsen, B., Aubry, T., 2022. Rock surface and sand-sized sediment quartz dating using optically stimulated luminescence of a Middle-to-Upper Palaeolithic sequence at the Bordes-Fitte rock shelter (Les Roches d'Abilly, Central France). Quaternary Geochronology 73, 101406, http://doi.org/10.1016/j.quageo.2022.101406

Semikolennykh, D.V., Cunningham, A.C., Kurbanov, R.N., Panin, A.V., Zolnikov, I.D., Deev, E.V., Murray, A.S., 2022. Dating of megaflood deposits in the Russian Altai using rock surface luminescence. Quaternary Geochronology 73, 101373, http://doi.org/10.1016/j.quageo.2022.101373

Smith, L.N., Sohbati, R., Jain, M., 2023. Rock surface luminescence dating of gravel determines the age of a glacial outburst megaflood, Glacial Lake Missoula, Montana, USA. Geology 51, 323-328, http://doi.org/10.1130/G50721.1

- tephra (and volcanic related)

Razum, I., Ilijanić, N., Petrelli, M., Pawlowsky-Glahn, V., Miko, S., Moska, P., Giaccio, B., 2023. Statistically coherent approach involving log-ratio transformation of geochemical data enabled tephra correlations of two late Pleistocene tephra from the eastern Adriatic shelf. Quaternary Geochronology 74, 101416, http://doi.org/10.1016/j.quageo.2022.101416

Zhang, S., Blockley, S., Armitage, S.J., Satow, C., Manning, C., Barzilai, O., Boaretto, E., White, D., Timms, R., 2023. Distal tephra reveal new MIS 5e Kos eruptions: Implications for the chronology and volcanic evolution histories in the Eastern Mediterranean region. Quaternary Science Reviews 307, 108054, http://doi.org/10.1016/j.quascirev.2023.108054

- thermochronology

Stalder, N.F., Biswas, R.H., Herman, F., 2022. Maximized erosion at the last glacial maximum revealed by thermoluminescence thermochronometry. Quaternary Geochronology 73, 101405, http://doi.org/10.1016/j.quageo.2022.101405

Archaeology applications

AeolianChen, X., He, A., Sun, X., Wei, Q., Liu, K., He, C., Liang, T., Yang, R., Wang, T., Shen, Z., Forestier, H., Zhou, Y., Li, Y., 2023. Guomo open-air site (15–12 ka) in Guangxi Zhuang Autonomous Region, southern China: A new cobble-based industry for rethinking the definition of "Hoabinhian". Journal of Archaeological Science: Reports 49, 104033, http://doi.org/10.1016/j.jasrep.2023.104033

Anil, D., Chauhan, N., Ajithprasad, P., Devi, M., Mahesh, V., Khan, Z., 2022. An Early Presence of Modern Human or Convergent Evolution? A 247 ka Middle Palaeolithic Assemblage from Andhra Pradesh, India. Journal of Archaeological Science: Reports 45, 103565, http://doi.org/10.1016/j.jasrep.2022.103565

Barbieri, A., Maier, A., Lauer, T., Mischka, C., Hattermann, M., Uthmeier, T., 2022. Post-LGM environments and foragers on the move: New data from the lower Altmühl Valley (Franconian Jura, SE Germany). Journal of Human Evolution 173, 103267, http://doi.org/10.1016/j.jhevol.2022.103267

Caruana, M.V., Wilson, C.G., Arnold, L.J., Blackwood, A.F., Demuro, M., Herries, A.I.R., 2023. A marine isotope stage 13 Acheulian sequence from the Amanzi Springs Area 2 Deep Sounding excavation, Eastern Cape, South Africa. Journal of Human Evolution 176, 103324, http://doi.org/10.1016/j.jhevol.2023.103324

del Val, M., Alonso, M.J., Duval, M., Arriolabengoa, M., Álvarez, I., Bodego, A., Cheng, H., Hermoso de Mendoza, A., Aranburu, A., Iriarte, E., 2022. Luminescence and ESR dating of the sedimentary infill from the multi-level cave system of Alkerdi-Zelaieta (Navarre, N Spain). Quaternary Geochronology 73, 101380, http://doi.org/10.1016/j.quageo.2022.101380

Doronicheva, E., Golovanova, L., Doronichev, V., Nedomolkin, A., Tregub, T., Volkov, M., Rusakov, A., Korzinova, A., Muriy, A., 2023. The MIS 4 environmental stress impact on hominin occupation in the northwestern Caucasus: New evidence from the Hadjoh 2 site. Journal of Archaeological Science: Reports 47, 103781, http://doi.org/10.1016/j.jasrep.2022.103781

Fazeli Nashli, H., Theodorakopoulou, K., Stamoulis, K., Athanassas, C., Nazari, H., Nokandeh, J., Jamshidi Yeganeh, S., Shokri, M., 2023. Deciphering the chronology of Tepe Sialk (South) "Ziggurat", North Central Iranian Plateau, through optically stimulated luminescence (OSL) dating. Journal of Archaeological Science: Reports 48, 103860, http://doi.org/10.1016/j.jasrep.2023.103860

Feathers, J.K., Frouin, M., Bench, T.G., 2022. Luminescence dating of Enigmatic rock structures in New England, USA. Quaternary Geochronology 73, 101402, http://doi.org/10.1016/j.quageo.2022.101402

Fonte, J., Rodrigues, A.L., Dias, M.I., Russo, D., Pereiro, T.d., Carvalho, J., Amorim, S., Jorge, C., Monteiro, P., Ferro-Vázquez, C., Costa-García, J.M., Gago, M., Oltean, I., 2023. Reassessing Roman military activity through an interdisciplinary approach: Myth and archaeology in Laboreiro Mountain (Northwestern Iberia). Journal of Archaeological Science: Reports 49, 103993, http://doi.org/10.1016/j.jasrep.2023.103993

Freiesleben, T.H., Thomsen, K.J., Murray, A.S., Sohbati, R., Jain, M., Hvidt, S., Jakobsen, B., Aubry, T., 2022. Rock surface and sand-sized sediment quartz dating using optically stimulated luminescence of a Middle-to-Upper Palaeolithic sequence at the Bordes-Fitte rock shelter (Les Roches d'Abilly, Central France). Quaternary Geochronology 73, 101406, http://doi.org/10.1016/j.quageo.2022.101406

García Sanjuán, L., Medialdea, A., Balsera Nieto, V., Athanassas, C., Pike, A., Standish, C.D., Dias, M.I., Rodrigues, A.L., Clavero Toledo, J.L., Wheatley, D.W., Cintas-Peña, M., 2023. A multimethod approach to the genesis of Menga, a World Heritage megalith. Quaternary Research 111, 1-20, http://doi.org/10.1017/qua.2022.33

Gliganic, L.A., Slack, M., Meyer, M.C., 2023. Tending to tradition: Dating stone arrangement maintenance in northwest Australia using optical methods. Journal of Archaeological Science: Reports 49, 104053, http://doi.org/10.1016/j.jasrep.2023.104053

L. Hilgen, S., Pop, E., Adhityatama, S., A. Veldkamp, T., W.K. Berghuis, H., Sutisna, I., Yurnaldi, D., Dupont-Nivet, G., Reimann, T., Nowaczyk, N., F. Kuiper, K., Krijgsman, W., B. Vonhof, H., Ekowati, D.R., Alink, G., Ni Luh Gde Dyah Mega, H., Drespriputra, O., Verpoorte, A., Bos, R., Simanjuntak, T., Prasetyo, B., Joordens, J.C.A., 2023. Revised age and stratigraphy of the classic Homo erectus-bearing succession at Trinil (Java, Indonesia). Quaternary Science Reviews 301, 107908, http://doi.org/10.1016/j.quascirev.2022.107908

Li, H., Li, Y., Yu, L., Tu, H., Zhang, Y., Sumner, A., Kuman, K., 2022. Continuous technological and behavioral development of late Pleistocene hominins in central South China: Multidisciplinary analysis at Sandinggai. Quaternary Science Reviews 298, 107850, http://doi.org/10.1016/j.quascirev.2022.107850

Liritzis, I., 2022. Optically stimulated luminescence dating using quartz: Remarks and a plea for fairness. Scientific Culture 8, 175-194, http://doi.org/10.5281/zenodo.5893296

Phuc, P.T., Hue, N.T.N., Hue, P.T., Anh, T.T., Kien, N.K.T., Son, L.T., Nguyen, L.L., Xuan, T.D., Dinh, V.-P., Long, N.H., Tiep, N.V., Vu, C.D., Thiem, L.N., Nguyen, N.-Q., Kiet, H.A.T., Hung, N.Q., Tuyen, L.A., 2023. Improved thermoluminescence dating for heterogeneous, multilayered, and overlapped architectures: A case study with the Oc Eo archaeological site in Vietnam. Journal of Archaeological Science 155, 105800, http://doi.org/10.1016/j.jas.2023.105800

Qiu, J., Jin, J., Wang, X., Wei, C., Zuo, X., Wei, J., 2022. OSL chronological evidence reveals one of the earliest island-type Neolithic sites in the coastal area of South China. The Holocene 33, 27-37, http://doi.org/10.1177/09596836221126126

Reed, K.S., Berger, U., Sharon, G., Porat, N., 2023. Radiometric dating of Southern Levant dolmens – Applying OSL to resolve an old debate. Journal of Archaeological Science: Reports 49, 104019, http://doi.org/10.1016/j.jasrep.2023.104019

Richard, M., 2023. Trapped Charge Dating and Archaeology, in: Pollard, A.M., Armitage, R.A., Makarewicz, C.A. (Eds.), Handbook of Archaeological Sciences. John Wiley & Sons Ltd., pp. 69-87, http://doi.org/10.1002/9781119592112.ch4

Silva-Sánchez, N., Tim, K., Fernández-Ferreiro, M., López-Salas, E., Turner, S., Sánchez-Pardo, J.-C., 2022. Written in soil and paper. Investigating environmental transformations of a monastic landscape by combining geoarchaeology and palynology with historical analysis at Samos (Spain). Journal of Archaeological Science: Reports 45, 103575, http://doi.org/10.1016/j.jasrep.2022.103575

Wang, Y., Zhang, X., Sun, X., Yi, S., Min, K., Liu, D., Yan, W., Cai, H., Wang, X., Curnoe, D., Lu, H., 2023. A new chronological framework for Chuandong Cave and its implications for the appearance of modern humans in southern China. Journal of Human Evolution 178, 103344, http://doi.org/10.1016/j.jhevol.2023.103344

White, J.T., Henry, A., Kuehn, S., Loso, M.G., Rasic, J.T., 2022. Terminal Pleistocene human occupation of the upper Copper River basin, southern Alaska: Results of test excavations at Nataeł Na'. Quaternary International 640, 23-43, http://doi.org/10.1016/j.quaint.2022.08.012

ESR, applied in various contexts

Dave, A.K., Timar-Gabor, A., Kabacińska, Z., Scardia, G., Safaraliev, N., Nigmatova, S., Fitzsimmons, K.E., 2022. A Novel Proxy for Tracking the Provenance of Dust Based on Paired E1'-Peroxy Paramagnetic Defect Centers in Fine-Grained Quartz. Geophysical Research Letters 49, e2021GL095007, http://doi.org/10.1029/2021GL095007

Dave, A.K., Timar-Gabor, A., Scardia, G., Safaraliev, N., Fitzsimmons, K.E., 2022. Variation in Luminescence Characteristics and Paramagnetic Defect Centres in Fine-Grained Quartz From a Loess-Palaeosol Sequence in Tajikistan: Implications for Provenance Studies in Aeolian Environments. Frontiers in Earth Science 10, 835281, http://doi.org/10.3389/feart.2022.835281

del Val, M., Alonso, M.J., Duval, M., Arriolabengoa, M., Álvarez, I., Bodego, A., Cheng, H., Hermoso de Mendoza, A., Aranburu, A., Iriarte, E., 2022. Luminescence and ESR dating of the sedimentary infill from the multi-level cave system of Alkerdi-Zelaieta (Navarre, N Spain). Quaternary Geochronology 73, 101380, http://doi.org/10.1016/j.quageo.2022.101380

Hernando-Alonso, I., Moreno, D., Ortega, A.I., Benito-Calvo, A., Alonso, M.J., Parés, J.M., Martínez-Fernández, A., Carbonell, E., Bermúdez de Castro, J.M., 2022. ESR chronology of the fluvial sequence of Cueva del Silo (Sierra de Atapuerca, Spain). Quaternary Geochronology 73, 101374, http://doi.org/10.1016/j.quageo.2022.101374

Ma, Z., Peng, T., Feng, Z., Li, X., Song, C., Wang, Q., Tian, W., Zhao, X., 2023. Tectonic and climate controls on river terrace formation on the northeastern Tibetan Plateau: Evidence from a terrace record of the Huangshui River. Quaternary International 656, 16-25, http://doi.org/10.1016/j.quaint.2022.11.004

Richard, M., 2023. Trapped Charge Dating and Archaeology, in: Pollard, A.M., Armitage, R.A., Makarewicz, C.A. (Eds.), Handbook of Archaeological Sciences. John Wiley & Sons Ltd., pp. 69-87, http://doi.org/10.1002/9781119592112.ch4

Basic research

Freiesleben, T.H., Thomsen, K.J., Jain, M., 2023. Novel luminescence kinetic models for rock surface exposure dating. Radiation Measurements 160, 106877, http://doi.org/10.1016/j.radmeas.2022.106877

Kitis, G., Pagonis, V., 2023. Simulation of thermoluminescence signals at very low dose rates and low doses: Implications for dosimetric applications. Radiation Physics and Chemistry 209, 110968, http://doi.org/10.1016/j.radphyschem.2023.110968

Kolb, T., Sontag-González, M., Fuchs, M., 2022. Testing the potential of a standardized growth curve approach for improving the applicability and performance of fading correction. Quaternary Geochronology 73, 101375, http://doi.org/10.1016/j.quageo.2022.101375

Lawless, J.L., Chen, R., Pagonis, V., 2023. A model explaining the anomalous fading effect in thermoluminescence (TL). Radiation Measurements 160, 106881, http://doi.org/10.1016/j.radmeas.2022.106881

Peng, J., Wang, X., Adamiec, G., Zhao, H., 2022. Critical role of the deep electron trap in explaining the inconsistency of sensitivity-corrected natural and regenerative growth curves of quartz OSL at high irradiation doses. Radiation Measurements 159, 106874, http://doi.org/10.1016/j.radmeas.2022.106874

Rahimzadeh, N., Zhang, J., Tsukamoto, S., Long, H., 2023. Characteristics of the quartz isothermal thermoluminescence (ITL) signal from the 375 °C peak and its potential for extending the age limit of quartz dating. Radiation Measurements 161, 106899, http://doi.org/10.1016/j.radmeas.2022.106899

Souza, P.E., Pupim, F.N., Mazoca, C.E.M., Río, I.d., Mineli, T.D., Rodrigues, F.C.G., Porat, N., Hartmann, G.A., Sawakuchi, A.O., 2023. Quartz OSL sensitivity from dating data for provenance analysis of pleistocene and holocene fluvial sediments from lowland Amazonia. Quaternary Geochronology 74, 101422, http://doi.org/10.1016/j.quageo.2023.101422

Williams, O.M., Spooner, N.A., 2023. Quartz defect pair model for exo-electron emission. Radiation Measurements 161, 106897, http://doi.org/10.1016/j.radmeas.2022.106897

Dosimetry

Karampiperi, M., Kazakis, N.A., 2023. Thermoluminescence characterization and kinetic parameters of eyeglass lenses for applications in retrospective/accidental dosimetry. Radiation Measurements 163, 106934, http://doi.org/10.1016/j.radmeas.2023.106934

Instruments

Goto, S., Hayashi, H., Yamaguchi, H., Sekiguchi, H., Akino, R., Shimizu, M., 2023. Signal-stabilized Al2O3:C-OSL dosimeter “checking chip” for correcting OSL reader sensitivity variation. Radiation Measurements 160, 106893, http://doi.org/10.1016/j.radmeas.2022.106893

Sontag-González, M., Mittelstraß, D., Kreutzer, S., Fuchs, M., 2022. Wavelength calibration and spectral sensitivity correction of luminescence measurements for dosimetry applications: Method comparison tested on the IR-RF of K-feldspar. Radiation Measurements 159, 106876, http://doi.org/10.1016/j.radmeas.2022.106876

Portable instruments

Rex, C.L., Bateman, M.D., Buckland, P.C., Panagiotakopulu, E., Livingstone, S.J., Hardiman, M., Eddey, L., 2023. A revision of the British chronostratigraphy within the last glacial-interglacial cycle based on new evidence from Arclid, Cheshire UK. Quaternary Science Reviews 299, 107882, http://doi.org/10.1016/j.quascirev.2022.107882

Robins, L., Roskin, J., Marder, O., Edeltin, L., Yu, L., Greenbaum, N., 2023. Geomorphic, environmental, and archeological significance of Last Glacial Maximum to middle Holocene dune damming, northwestern Negev dunefield margin, Israel. Quaternary Science Reviews 308, 108098, http://doi.org/10.1016/j.quascirev.2023.108098

Tipping, R., Bates, R., Cameron, A., Clarke, A., Duthie, S., Ewan, L., Kinnaird, T., Mann, B., Noble, G., Ross, I., Sabnis, H., Wickham-Jones, C., 2022. Environmental reconstruction and formation processes in a large Mesolithic lithic scatter at Nethermills of Crathes, Aberdeenshire, Scotland. Journal of Archaeological Science: Reports 45, 103605, http://doi.org/10.1016/j.jasrep.2022.103605

Review

Liritzis, I., 2022. Optically stimulated luminescence dating using quartz: Remarks and a plea for fairness. Scientific Culture 8, 175-194, http://doi.org/10.5281/zenodo.5893296

Mahan, S.A., Rittenour, T.M., Nelson, M.S., Ataee, N., Brown, N., DeWitt, R., Durcan, J., Evans, M., Feathers, J., Frouin, M., Guérin, G., Heydari, M., Huot, S., Jain, M., Keen-Zebert, A., Li, B., López, G.I., Neudorf, C., Porat, N., Rodrigues, K., Sawakuchi, A.O., Spencer, J.Q.G., Thomsen, K., 2023. Guide for interpreting and reporting luminescence dating results. GSA Bulletin 135, 1480-1502, http://doi.org/10.1130/B36404.1

Richard, M., 2023. Trapped Charge Dating and Archaeology, in: Pollard, A.M., Armitage, R.A., Makarewicz, C.A. (Eds.), Handbook of Archaeological Sciences. John Wiley & Sons Ltd., pp. 69-87, http://doi.org/10.1002/9781119592112.ch4