Bibliography

Compiled by Sebastien Huot
From December 1, 2023 to May 31, 2024

Various geological applications

- aeolian

Chen, D., Lu, R., Ma, L., Ding, Z., 2024. Holocene climate change in the Hunshandake Sandy Land, Northeast China. Palaeogeography, Palaeoclimatology, Palaeoecology 643, 112182, http://doi.org/10.1016/j.palaeo.2024.112182

Du, Y., Lu, R., Ma, L., Liu, X., Chen, D., Liu, Y., 2024. A formation record of modern Nitraria tangutorum nebkhas on the Ordos Plateau of northern China based on optically stimulated luminescence dating. Quaternary Geochronology 82, 101550, http://doi.org/10.1016/j.quageo.2024.101550

Holuša, J., Moska, P., Nývlt, D., Woronko, B., 2024. OSL-based chronology of the cold-climate aeolian sand dunes, Moravian Sahara, lower Morava Basin, Czechia. Quaternary Science Reviews 334, 108718, http://doi.org/10.1016/j.quascirev.2024.108718

Li, C., Zhang, Z., Yu, L., Chen, G., Yang, J., Dong, Z., 2024. Multiple Evolution Modes of Megaripples in the Qaidam Basin and Implications for Ripple-Like Aeolian Landforms on Mars. Journal of Geophysical Research: Earth Surface 129, e2023JF007417, http://doi.org/10.1029/2023JF007417

Liu, X., Yang, J., Zhao, L., Liu, Y., Gao, F., Tang, J., Wang, H., Chen, Z., Wang, S., Li, G., Lu, H., Li, Z., Wang, F., Xia, D., 2024. Aeolian activity in the Yarlung Zangbo River Basin, southern Tibetan Plateau, began at 584 ka: implications for the glaciation of the Tibetan Plateau. Quaternary Science Reviews 337, 108799, http://doi.org/10.1016/j.quascirev.2024.108799

Ma, Y., Li, Z., Tan, D., Zou, X., Tao, T., 2024. Grain size and surface micro-texture characteristics and their paleoenvironmental significance of Holocene sediment in southern margin of the Gurbantunggut Desert, China. Journal of Arid Land 16, 632-653, http://doi.org/10.1007/s40333-024-0015-1

Miao, X., 2024. Major dune construction during the Younger Dryas chronozone within the Kankakee River Valley, Great Lakes region, USA: Visible landscape response to rapid climate change. CATENA 238, 107865, http://doi.org/10.1016/j.catena.2024.107865

Moska, P., Sokołowski, R.J., Zieliński, P., Mroczek, P., Piotrowska, N., Jary, Z., Raczyk, J., Szymak, A., Wojtalak, A., Poręba, G., Łopuch, M., Skurzyński, J., Krawczyk, M., Tudyka, K., Ustrzycka, A., Hrynowiecka, A., 2023. The Role and Frequency of Wildfires in the Shaping of the Late Glacial Inland Dunes – A Case Study from the Korzeniew Site (Central Poland). Geochronometria 50, 100-112, http://doi.org/10.2478/geochr-2023-0006

Oehler, S., Stevens, T., Kolb, T., Possnert, G., Fuchs, M., 2024. Combined optically stimulated luminescence and radiocarbon dating of aeolian dunes in Arctic Sweden. Permafrost and Periglacial Processes 35, 172-187, http://doi.org/10.1002/ppp.2216

Sanjurjo-Sánchez, J., Arce-Chamorro, C., Vidal-Romaní, J.R., Matin, N., 2024. OSL dating of very young aeolian sediments of NW Spain to assess dune erosion and accretion periods. Quaternary Geochronology 82, 101537, http://doi.org/10.1016/j.quageo.2024.101537

Stone, A., Bateman, M.D., Sanderson, D., Burrough, S.L., Cutts, R., Cresswell, A., 2024. Probing sediment burial age, provenance and geomorphic processes in dryland dunes and lake shorelines using portable luminescence data. Quaternary Geochronology 82, 101542, http://doi.org/10.1016/j.quageo.2024.101542

Tripaldi, A., Ozán, I.L., Heider, G., Orgeira, M.J., Forman, S.L., 2024. Where did the water come from? Wetlands and shallow lakes in semi-arid dunefields from South America during the Pleistocene–Holocene transition. Journal of Quaternary Science 39, 289-308, http://doi.org/10.1002/jqs.3588

Wang, H., Yang, J., Gao, F., Wang, S., Wang, Z., Qu, W., Li, J., Liu, X., Zhang, C., Wang, L., Fan, Y., Yang, S., Xia, D., 2024. Middle to late Holocene climate change in the monsoon-dominated southeastern Tibetan Plateau and its relationship with human activity. Palaeogeography, Palaeoclimatology, Palaeoecology 645, 112209, http://doi.org/10.1016/j.palaeo.2024.112209

Wang, Y., Li, S., Yi, S., Xu, Z., 2024. Multiple age control of young nebkhas in the Mu Us dune field, north-central China. Quaternary Geochronology 82, 101531, http://doi.org/10.1016/j.quageo.2024.101531

Zaretskaya, N., Panin, A., Utkina, A., Baranov, D., 2024. Aeolian sedimentation in the Vychegda river valley, north-eastern Europe, during MIS 2–1. Quaternary International 686-687, 83-98, http://doi.org/10.1016/j.quaint.2023.05.022

Zhang, S., Yang, S., Xiong, S., Guo, L., Wang, Y., Huang, X., Sun, M., Ding, Z., 2024. Origin and depositional background of the Holocene black soil in Northeast China: Evidence from grain-size analysis and optically stimulated luminescence dating. CATENA 239, 107963, http://doi.org/10.1016/j.catena.2024.107963

- alluvial fan

Muñoz-Salinas, E., Castillo, M., De Pablo, N., Palacios, D., Sanderson, D., Cresswell, A., 2024. Mid to late holocene alluvial fans activity at the southern sector of sierra de gredos in central Spain: Climate literature review, OSL and topographical analysis. Quaternary International 688, 44-52, http://doi.org/10.1016/j.quaint.2024.02.007

- cave

Romano, E., Sechi, D., Andreucci, S., Bergamin, L., D'Ambrosi, A., De Santis, C., Di Bella, L., Dinelli, E., Frezza, V., Pascucci, V., Pierfranceschi, G., Provenzani, C., 2024. Paleoecological reconstruction during the Holocene in the Middle Branch of Bue Marino Cave (Sardinia, Italy). The Holocene 34, 74-86, http://doi.org/10.1177/09596836231200435

- coastal

Arce-Chamorro, C., Guérin, G., 2024. Comparison of De values from Late Pleistocene alluvial deposits on the coast of Galicia (NW Spain) using BayLum or Analyst-based procedures. Quaternary Geochronology 82, 101540, http://doi.org/10.1016/j.quageo.2024.101540

Ballian, A., Chawchai, S., Miocic, J.M., Charoenchatree, W., Bissen, R., Preusser, F., 2024. Late Holocene coastal dynamics south of the Chanthaburi estuary, eastern Gulf of Thailand. Quaternary Research 117, 19-29, http://doi.org/10.1017/qua.2023.34

Brill, D., Zander, A., Costa, P.J.M., Feist, L., Laermanns, H., Reicherter, K., Brückner, H., 2024. Luminescence dating of tsunami deposits from the algarve shelf, Portugal. Quaternary Geochronology 81, 101513, http://doi.org/10.1016/j.quageo.2024.101513

Carvalho, R.C., Mueller, D., Reef, R., 2024. Morphological evolution of a complex drift-aligned prograded barrier. Earth Surface Processes and Landforms 49, 728-745, http://doi.org/10.1002/esp.5732

del Valle, L., Timar-Gabor, A., Fornós, J.J., 2024. Chronology of Pleistocene sedimentary cycles in the western Mediterranean. Quaternary Science Reviews 330, 108451, http://doi.org/10.1016/j.quascirev.2023.108451

Kalińska, E., Breijers, E., Alexanderson, H., Krievāns, M., Bērziņš, V., 2022. A chronology of depositional coastal landforms of the Baltic Sea: Luminescence dating of sandy sediments and patterns of human settlement at the ancient Ventspils Lagoon. Estuarine, Coastal and Shelf Science 279, 108135, http://doi.org/10.1016/j.ecss.2022.108135

Lin, P., Hu, X., Zhan, W., Chen, Y., Ling, K., Zhi, B., Li, H., Lai, Z., 2024. Chronology by luminescence and radiocarbon on core sediments from the northeastern pearl river plain and implications for delta process. Quaternary Geochronology 82, 101541, http://doi.org/10.1016/j.quageo.2024.101541

Liu, Y., Xu, G., Long, G., Song, Y., Tian, R., Li, Y., Tu, H., Li, H., Lai, Z., 2024. Post-glacial small delta process uncovered by luminescence and radiocarbon chronology of core sediments from coastal South China Sea. Quaternary Geochronology 82, 101530, http://doi.org/10.1016/j.quageo.2024.101530

Nian, X., Zhang, W., Liu, R., Qiu, F., Seppä, H., 2024. Underestimated single-aliquot quartz OSL ages of Late-Pleistocene sediments due to the dominance of medium component. Quaternary Science Reviews 332, 108656, http://doi.org/10.1016/j.quascirev.2024.108656

Oliver, T.S.N., Tamura, T., 2022. The relevance of coastal sediment budgets to management of sandy wave-dominated shorelines, a case study of Twofold Bay, southeastern Australia. Ocean & Coastal Management 228, 106311, http://doi.org/10.1016/j.ocecoaman.2022.106311

Qiu, J., Jin, J., Zuo, X., Fan, X., Wei, J., Xu, D., Hou, C., 2024. Chronology of drill cores and the inferred coastal environmental evolution on Haitan Island, South China. Journal of Quaternary Science 39, 626-637, http://doi.org/10.1002/jqs.3606

Riis, M.H., Sander, L., Nielsen, L., Buylaert, J.-P., Challier, A.J.M., Larsen, N.K., 2024. Middle and Late Holocene relative sea level changes and coastal development at Rugård, Denmark. Boreas 53, 56-70, http://doi.org/10.1111/bor.12642

Shulmeister, J., Rittenour, T.M., Patton, N.R., Ellerton, D., Gontz, A., Hesp, P.A., Santini, T., Miot da Silva, G., Forman, S., Bowyer, H., Kelly, J.T., McCallum, A., Welsh, K., 2024. Chronology and evolution of the world's largest sand island: K'gari (Fraser Island), South East Queensland, Australia. Quaternary Science Reviews 328, 108529, http://doi.org/10.1016/j.quascirev.2024.108529

Stanton, K.M., Crider, J.G., Kelsey, H.M., Feathers, J.K., 2024. The signature of accumulated permanent uplift, northern Cascadia subduction zone. Quaternary Research 117, 98-118, http://doi.org/10.1017/qua.2023.59

Sun, X., Li, Y., Yi, L., Zhang, J., Bi, J., Chen, G., Hu, K., 2024. Provenance of fine-grained sediments along the South Bohai Coast, China since the mid-Holocene, and its implications for understanding coastal evolution and anthropogenic influences. Palaeogeography, Palaeoclimatology, Palaeoecology 639, 112075, http://doi.org/10.1016/j.palaeo.2024.112075

Xu, D., Jin, J., Wei, J., Hou, C., Ling, Z., Wang, Z.a., Xu, J., 2024. New chronology of K-feldspar isochron optical dating (iIRSL) in the late Pleistocene coastal aeolian deposits of Southeast China. Palaeogeography, Palaeoclimatology, Palaeoecology 649, 112315, http://doi.org/10.1016/j.palaeo.2024.112315

Xu, Y., Sun, Q., Yin, X., Long, H., Li, D., Lin, F., 2024. Late Pleistocene sea level change and tectonism control on the formation of the Old Red Sand along the southeastern coast of China. Palaeogeography, Palaeoclimatology, Palaeoecology 637, 112018, http://doi.org/10.1016/j.palaeo.2024.112018

Yuan, W., Jiang, L., Jiang, R., Tian, R., Ding, Z., Lai, Z., 2024. Chronology of core sediments from the south coastal Bohai Sea of eastern Asia and its implications for sedimentary history. Quaternary Geochronology 82, 101539, http://doi.org/10.1016/j.quageo.2024.101539

- colluvial

de Boer, A.-M., Schwanghart, W., Mey, J., Adhikari, B.R., Reimann, T., 2024. Insight into the dynamics of a long-runout mass movement using single-grain feldspar luminescence in the Pokhara Valley, Nepal. Geochronology 6, 53-70, http://doi.org/10.5194/gchron-6-53-2024

Larin, S.I., Kozlov, O.V., Larina, N.S., Alekseeva, V.A., Ustinova, E.V., 2024. First Experience on Optically Stimulated Luminescence Dating of the Crest Relief Deposits in the Tobol-Ishim Interfluve. Doklady Earth Sciences 515, 573-580, http://doi.org/10.1134/S1028334X23603218

Zádorová, T., Penížek, V., Koubová, M., Lisá, L., Kočár, P., Světlík, I., Pavlů, L., Žížala, D., Tejnecký, V., Drábek, O., Kodešová, R., Němeček, K., Vokurková, P., Vaněk, A., Moska, P., 2024. Landscape history mirrored in colluvial profiles: A multi-proxy approach from a Luvisol region in Central Czechia. Geoderma Regional 36, e00777, http://doi.org/10.1016/j.geodrs.2024.e00777

- earthquake (and fault related)

Bao, G., Ren, Z., Wu, D., Lu, H., Liu, J., Li, T., Zhang, Z., Ha, G., 2024. Combining geomorphological and kinematic models to analyze tectonic deformation rates: A case study of the Bayin anticline in the eastern Tian Shan Mountains. Geomorphology 454, 109154, http://doi.org/10.1016/j.geomorph.2024.109154

Dee, S., Ramelli, A.R., dePolo, C.M., Mahan, S.A., 2024. Surficial geology and Quaternary fault map of the Las Vegas Valley, Clark County, Nevada, scale 1:50,000. Nevada Bureau of Mines and Geology, https://pubs.nbmg.unr.edu/Surf-geol-Quat-fault-Las-Vegas-p/m193.htm

DuRoss, C.B., Lifton, Z.M., Hatem, A.E., Briggs, R.W., Thompson Jobe, J., Reitman, N.G., Thackray, G.D., Zellman, M.S., Collett, C.M., Gray, H.J., Mahan, S.M., 2024. Paleoseismology of the Sawtooth Fault and Implications for Fault Behavior in the Epicentral Region of the 2020 Mw 6.5 Stanley, Idaho, Earthquake. The Seismic Record 4, 32-42, http://doi.org/10.1785/0320230045

Guo, Y., Ge, Y., Mao, P., 2024. Dating of multiple debris flow stages in the Sandaoqiao gully, Kangding, Eastern Tibetan Plateau: implications for regional tectonic and climate changes. Environmental Earth Sciences 83, 108, http://doi.org/10.1007/s12665-023-11400-5

Hu, G., Liu-Zeng, J., Shao, Y., Qin, K., Gao, Y., 2024. The applications of optically stimulated luminescence dating in active fault and paleo-earthquake studies: A review. Quaternary International 688, 53-62, http://doi.org/10.1016/j.quaint.2024.01.016

Jamšek Rupnik, P., Atanackov, J., Horn, B., Mušič, B., Zajc, M., Grützner, C., Ustaszewski, K., Tsukamoto, S., Novak, M., Milanič, B., Markelj, A., Ivančič, K., Novak, A., Jež, J., Žebre, M., Bavec, M., Vrabec, M., 2024. Revealing Subtle Active Tectonic Deformation: Integrating Lidar, Photogrammetry, Field Mapping, and Geophysical Surveys to Assess the Late Quaternary Activity of the Sava Fault (Southern Alps, Slovenia). Remote Sensing 16, 1490, https://www.mdpi.com/2072-4292/16/9/1490

Ji, H., Liu, C.-r., Wei, C.-y., Yin, G.-m., 2024. Optical bleaching and thermal stability of ESR signals in fault-related carbonates. Radiation Physics and Chemistry 218, 111584, http://doi.org/10.1016/j.radphyschem.2024.111584

Li, X., Pierce, I.K.D., Sun, K., Li, J., Yang, H., You, Z., Liu, S., Zhang, Z., Li, C., Zheng, W., Zhang, P., 2024. Fault Geometry and Late Quaternary Kinematics Along the Tieluzi Fault: Implications for Tectonic

Deformation and Eastward Expansion of the Tibetan Plateau, China. Tectonics 43, e2023TC008015, http://doi.org/10.1029/2023TC008015

Luo, Q., Li, Y., Schoenbohm, L., Rimando, J., Hu, X., Guo, A., Zhao, J., Li, X., Liu, Q., Jiang, S., Li, C., Sun, K., 2022. Direct Evidence for Dextral Shearing in the Shanxi Graben System: Geologic and Geomorphologic Constraints From the North Liulengshan Fault. Tectonics 41, e2022TC007490, http://doi.org/10.1029/2022TC007490

Prince, E., Tsukamoto, S., Grützner, C., Vrabec, M., Ustaszewski, K., 2024. Not too old to rock: ESR and OSL dating reveal Quaternary activity of the Periadriatic Fault in the Alps. Earth, Planets and Space 76, 85, http://doi.org/10.1186/s40623-024-02015-6

Su, Q., Wang, X., Gao, L., Yi, S., Han, Z., Ren, J., Vandenberghe, J., Lu, H., Van Balen, R., 2024. The impact of faulting-induced uplift and subsidence on terrace formation and abandonment: a case study of the Huangshui River, NE Tibetan Plateau. Journal of the Geological Society 181, jgs2023-2104, http://doi.org/10.1144/jgs2023-104

- fluvial

Briant, R.M., Jotheri, J., Al-Ameri, I., Ahmed, A., Bateman, M.D., Engels, S., Garzanti, E., Nymark, A., Reynolds, T.E., 2024. Disentangling late quaternary fluvial and climatic drivers of palaeohydrological change in the Najaf Sea basin, Western Iraq. Earth Surface Processes and Landforms 49, 1451-1467, http://doi.org/10.1002/esp.5779

Busch, R., Bernbeck, R., Hessari, M., Kirsten, F., Lüthgens, C., Pollock, S., Rol, N., Schütt, B., 2024. Linking archaeology and paleoenvironment: Mid-Holocene occupational sequences in the Varamin Plain (Iran). Geoarchaeology 39, 355-374, http://doi.org/10.1002/gea.21995

Croke, J., Thompson, C., Larsen, A., Macklin, M., Hughes, K., 2024. Fluvial Response to Environmental Change in Sub-Tropical Australia over the Past 220 Ka. Quaternary 7, 9, http://doi.org/10.3390/quat7010009

Dong, W., Yu, S., Hu, Q., Wu, J., Lei, D., Cai, Y., 2023. Electron Spin Resonance Dating of the Quaternary Fluvial Terrace System of the Upper Han River, Central China. Geochronometria 50, 157-165, http://doi.org/10.2478/geochr-2023-0013

Fan, N., Yang, X., J. Storozum, M., Cheng, X., Li, L., Liu, W., Lin, Z., Liu, X., 2024. Geoarchaeological evidence of an ancient landslide dam (13–4.7 ka) and consequent outburst flood on the Minjiang River near Wenchuan, China. CATENA 242, 108137, http://doi.org/10.1016/j.catena.2024.108137

Fonsêca, D.N., de Barros Corrêa, A.C., de Lira, D.R., de Azevêdo Cavalcanti Tavares, B., Torres, B.A., Gonçalves, R.B., da Silva, W.F., 2024. Climatically driven Quaternary sedimentation in a passive margin tropical context: Insights into the geomorphological evolution of Northeastern Brazil. Geomorphology 461, 109316, http://doi.org/10.1016/j.geomorph.2024.109316

García, A.F., Mahan, S.A., 2023. Storm-driven sedimentation and dynamics of a sediment slug in an ephemeral stream: Influence on sediment-routing systems within source areas. Geosphere 20, 214-236, http://doi.org/10.1130/GES02683.1

Gębica, P., Wieczorek, D., Moska, P., Michczyńska, D.J., Granoszewski, W., 2023. Age and Origin of Fluvial Deposits in the Vistula River Valley Near Tarnobrzeg (Sandomierz Basin, Poland): Insights from Sediment Dating and Analysis. Geochronometria 50, 113-124, http://doi.org/10.2478/geochr-2023-0009

Imsong, W., Thong, G.T., Sharma, S., 2023. Causes of pulsating evolution of fluvial landforms since the marine isotopic stage-2 in the belt of Schuppen, Nagaland, NE India. Physical Geography 44, 381-404, http://doi.org/10.1080/02723646.2022.2064065

Ishii, Y., Ito, K., 2024. Luminescence dating of sand matrices within gravelly fluvial deposits: Assessing the plausibility of beta dose rate calculation. Quaternary Science Advances 13, 100160, http://doi.org/10.1016/j.qsa.2023.100160

Kemp, J., Pietsch, T.J., 2024. Death of a palaeochannel: Slow abandonment of an avulsed channel on the Riverine Plains, SE Australia. Earth Surface Processes and Landforms 49, 567-581, http://doi.org/10.1002/esp.5721

Khan, I., Sinha, R., Murray, A.S., Jain, M., 2024. Landscape evolution of the NW Himalayan rivers during the late Quaternary and their non-contemporaneity to the Harappan Civilization. Quaternary Science Reviews 331, 108622, http://doi.org/10.1016/j.quascirev.2024.108622

Lundstrom, S.C., McBeth, J.L., Alexander, J., Hanson, P., Mahan, S.A., 2024. Geologic Map of the valley corridor of the Niobrara National Scenic River, Nebraska. U.S. Geological Survey data release, http://doi.org/10.5066/P1RVSXF4

Marik, M., Serra, E., Gegg, L., Wölki, D., Preusser, F., 2024. Combined different luminescence dating approaches on fluvial gravel deposits from the southern upper Rhine graben. Quaternary Geochronology 82, 101536, http://doi.org/10.1016/j.quageo.2024.101536

Pears, B., Brown, A.G., Carroll, J., Toms, P., Wood, J., Jones, R., 2020. Early Medieval Place-Names and Riverine Flood Histories: A New Approach and New Chronostratigraphic Records for Three English Rivers. European Journal of Archaeology 23, 381-405, http://doi.org/10.1017/eaa.2019.72

Rizza, M., Rixhon, G., Valla, P.G., Gairoard, S., Delanghe, D., Fleury, J., Tal, M., Groleau, S., 2024. Revisiting a proof of concept in quartz-OSL bleaching processes using sands from a modern-day river (the Séveraisse, French Alps). Quaternary Geochronology 82, 101520, http://doi.org/10.1016/j.quageo.2024.101520

Silva, P.G., Tapias, F., Élez, J., Roquero, E., Gutiérrez, F., del Val, M., Perez-Torrado, F.J., Giner-Robles, J.L., Moreno, D., 2024. Evolution of the Júcar-Cabriel fluvial system on the Mediterranean watershed of the Iberian Peninsula (Valencia, eastern Spain). Geomorphology 450, 109066, http://doi.org/10.1016/j.geomorph.2024.109066

Sun, A., Zhao, H., Ma, M., Liu, B., Li, Y., Shi, Z., Wang, K., Li, D., Xu, Y., Chen, F., 2024. Southward retreat of the Keriya River drove human migration in the Taklimakan Desert during the late Holocene. Quaternary Science Reviews 332, 108665, http://doi.org/10.1016/j.quascirev.2024.108665

Tan, D., Jin, J., Li, Z., Liu, R., Ma, Y., Zou, X., Wei, J., 2024. Alluvial-lacustrine record of Mid- to Late-Holocene moisture variations trend verified by multiple proxies in the middle and lower reaches of the Hutubi River, northwest China. The Holocene 34, 908-920, http://doi.org/10.1177/09596836241236352

Taratunina, N., Buylaert, J.P., Murray, A., Yanina, T., Streletskaya, I.D., Kurbanov, R., 2024. Luminescence dating of Late Pleistocene sea level change and cryogenesis in the northern Caspian region (Chernyy Yar section). Quaternary Geochronology 82, 101538, http://doi.org/10.1016/j.quageo.2024.101538

Tian, Y., Chen, P., Lu, P., Li, Y., Wang, H., Zhou, L., Zhang, X., Yang, S., Zhang, X., Chai, X., Zhai, H., Liu, M., Wang, Y., Ma, J., Mo, D., 2024. Basin-scale reconstruction of late Pleistocene-Holocene fluvial landform evolution and its mechanisms in transitional areas between Taihang Mountain and North China Plain. Palaeogeography, Palaeoclimatology, Palaeoecology 634, 111944, http://doi.org/10.1016/j.palaeo.2023.111944

Viveen, W., Sanjurjo-Sanchez, J., Bravo-Lembcke, G., Uribe-Ventura, R., 2024. A 121-ka record of Western Andean fluvial response to suborbital climate cycles recorded by rhythmic grain size variations of the Lima fluvial fan. Earth Surface Processes and Landforms 49, 2326-2347, http://doi.org/10.1002/esp.5831

von Suchodoletz, H., Khosravichenar, A., Fütterer, P., Zielhofer, C., Schneider, B., Sprafke, T., Tinapp, C., Fülling, A., Werther, L., Stäuble, H., Hein, M., Veit, U., Ettel, P., Werban, U., Miera, J., 2024. Holocene overbank sedimentation in Central Europe between natural and human drivers - The Weiße Elster River (Central Germany). Geomorphology 449, 109067, http://doi.org/10.1016/j.geomorph.2024.109067

Wang, S., Miao, X., Shi, T., 2024. Flood events in the lower reaches of the Yellow River: OSL and radiocarbon dating on the Anshang site. Quaternary International 694, 13-25, http://doi.org/10.1016/j.quaint.2024.03.006

Wojtalak, A., Sokołowski, R.J., Moska, P., 2023. Morphology, Sedimentology and OSL Chronology of the Lower Prosna River System Evolution – A Case Study in Rokutów, West-Central Poland. Geochronometria 50, 166-179, http://doi.org/10.2478/geochr-2023-0017

Wu, X., Wang, L., Ta, L., Guo, C., Qiao, L., Wang, H., Wang, P., Xu, L., Xie, J., Zhang, J., Wang, X., Wang, C., Hu, G., 2024. Fluvial landscape change in Anqing through the last glacial cycle: Implications for eustatic controls on the Yangtze River's continental-scale incision-aggradation cycles. Quaternary Science Reviews 333, 108689, http://doi.org/10.1016/j.quascirev.2024.108689

Yu, Y., Wang, X., Yi, S., Wang, Y., Lu, H., 2024. Differential terrace configurations in the Upper Yangtze River: Evaluating distinct intensifies of external perturbation and their impact on river behaviors. Geomorphology 461, 109313, http://doi.org/10.1016/j.geomorph.2024.109313

Zha, X., Huang, C., Han, Y., Zhou, Y., Pang, J., Zhang, Y., Chai, J., Wang, N., Bai, X., 2024. Development process and environmental response of the first terrace in the Maqu reach of the Yellow River in the western margin of the Zoige Basin, eastern Tibetan Plateau, China. Quaternary International 682, 22-34, http://doi.org/10.1016/j.quaint.2024.01.003

Zhou, Y., Han, J., Shen, Q., Xu, Y., Tao, Y., Lin, P., Lai, Y., Wang, Y., Lai, Z., 2024. Orbital global change drove fluvial aggradation and incision in Tibetan upper Mekong river: Chronological perspectives. Quaternary Geochronology 82, 101546, http://doi.org/10.1016/j.quageo.2024.101546

- glacial and periglacial

Alcalá-Reygosa, J., Campos, N., Schimmelpfennig, I., Sanjurjo-Sánchez, J., Léanni, L., Zamorano, J.J., Team, A., 2024. Rapid deglaciation of the La Vega gorge (Sierra de Gredos, Iberian Peninsula) at the end of the global Last Glacial Maximum. Journal of Quaternary Science 39, 277-288, http://doi.org/10.1002/jqs.3584

Alexanderson, H., Möller, P., Jain, M., Knudsen, M.F., Larsen, N.K., Perić, Z.M., Søndergaard, A.S., Thompson, W., 2024. Coupled luminescence and cosmogenic nuclide dating of postglacial deflation surfaces and sand drift on a raised ice-contact delta at Veinge, SW Sweden. Quaternary Geochronology 80, 101500, http://doi.org/10.1016/j.quageo.2024.101500

Brookfield, M.E., Buylaert, J.-P., Murray, A., 2024. Calibrating the Wisconsin in the eastern Great Lakes of North America using optically stimulated luminescence (OSL) dating of the Quaternary sediments at Sand Hill Park, north shore of Lake Erie, Ontario. Quaternary Research 117, 160-169, http://doi.org/10.1017/qua.2023.50

Carling, P.A., Evans, D.J.A., Abbas, M., Ou, X., Lai, Z., 2024. Late Wolstonian and Ipswichian (MIS 6/5e) sediment fill in a limestone sinkhole, Askham Fell, northern England. Journal of Quaternary Science 39, 224-233, http://doi.org/10.1002/jqs.3589

Forysiak, J., Majecka, A., Moska, P., Marks, L., 2023. Lithostratigraphy and Chronology of Vistulian Periglacial Deposits in Józefów (Central Poland) Based on Luminescence Dating. Geochronometria 50, 182-194, http://doi.org/10.2478/geochr-2023-0015

Hofmann, F.M., Rambeau, C., Gegg, L., Schulz, M., Steiner, M., Fülling, A., Léanni, L., Preusser, F., Team, A., 2024. Regional beryllium-10 production rate for the mid-elevation mountainous regions in central Europe, deduced from a multi-method study of moraines and lake sediments in the Black Forest. Geochronology 6, 147-174, http://doi.org/10.5194/gchron-6-147-2024

Mai Yung Sen, V., Valla, P.G., van der Beek, P.A., Lemot, F., Crouzet, C., Brocard, G., 2024. Paleo-valley infills record landscape response to late-Quaternary glacial/interglacial climate oscillations in the French western Alps. Quaternary Science Reviews 331, 108632, http://doi.org/10.1016/j.quascirev.2024.108632

Möller, P., Alexanderson, H., Peric, Z.M., Mayank, J., 2024. Ventifacts and wind deflation surfaces in context with glaciofluvial sediment successions in southern Sweden – Their age and implication for glacial history. Quaternary Science Reviews 327, 108523, http://doi.org/10.1016/j.quascirev.2024.108523

Mueller, D., Gegg, L., Fülling, A., Buechi, M.W., Deplazes, G., Preusser, F., 2024. Luminescence dating of glacially sourced deposits from northern Switzerland: Comparing multigrain aliquots and single grains of quartz and feldspar. Quaternary Geochronology 82, 101551, http://doi.org/10.1016/j.quageo.2024.101551

Panin, A., Konstantinov, E., Borisova, O., Zyuganova, I., Baranov, D., Karpukhina, N., Utkina, A., Naryshkina, N., Kurbanov, R., 2024. Palaeoenvironmental Conditions of the Upper Middle Pleistocene Warm Intervals in the Upper Volga Region, Northwestern Russia, Based on Palynological, Paleocarpological and Quantitative Geochronological Data. Quaternary 7, 24, http://doi.org/10.3390/quat7020024

Pisarska-Jamroży, M., Woronko, B., Woźniak, P.P., Rosentau, A., Hang, T., Steffen, H., Steffen, R., 2024. Deformation structures as key hints for interpretation of ice sheet dynamics - A case study from northeastern Estonia. Quaternary Science Reviews 336, 108788, http://doi.org/10.1016/j.quascirev.2024.108788

Rades, E.F., Sohbati, R., Alexanderson, H., Jain, M., Murray, A.S., 2024. Exploring the potential of rock surface luminescence from glacial sediments: dating and transport history. Boreas 53, 227-242, http://doi.org/10.1111/bor.12648

Roman, M., Píšková, A., Sanderson, D.C.W., Cresswell, A.J., Bulínová, M., Pokorný, M., Kavan, J., Jennings, S.J.A., Lirio, J.M., Nedbalová, L., Sacherová, V., Kopalová, K., Glasser, N.F., Nývlt, D., 2024. The Late Holocene deglaciation of James Ross Island, Antarctic Peninsula: OSL and 14C-dated multi-proxy sedimentary record from Monolith Lake. Quaternary Science Reviews 333, 108693, http://doi.org/10.1016/j.quascirev.2024.108693

Theilen, B.M., Simms, A.R., DeWitt, R., Zurbuchen, J., Garcia, C., Gernant, C., 2023. The impact of the Neoglacial and other environmental changes on the raised beaches of Joinville Island, Antarctica. Antarctic Science 35, 418-437, http://doi.org/10.1017/S0954102023000275

Wang, P., Wang, H., Hu, G., Liu, T., Li, C., Qin, J., Ge, Y., 2024. Glacier dam evolution and knickpoint migration in the Yarlung Tsangpo Gorge, eastern Himalayas, since the last glacial period. Quaternary Science Reviews 331, 108631, http://doi.org/10.1016/j.quascirev.2024.108631

Weckwerth, P., Kalińska, E., Wysota, W., Krawiec, A., Alexanderson, H., Chabowski, M., 2024. Evolutionary model for glacial lake-outburst fans at the ice-sheet front: Development of meltwater outlets and origins of bedforms. Geomorphology 453, 109125, http://doi.org/10.1016/j.geomorph.2024.109125

Yang, K., Ou, X., Li, Y., Jenkins, G., Yao, P., Tang, D., Xu, Y., Xie, J., Zeng, L., Liu, X., 2024. Luminescence dating of cobbles buried in moraines from the source area of the Litang River (Konglongluo Valley), eastern Tibetan Plateau. Quaternary Geochronology 82, 101547, http://doi.org/10.1016/j.quageo.2024.101547

Zaretskaya, N., Utkina, A., Baranov, D., Panin, A., Trofimova, S., Simakova, A., Kurbanov, R., 2024. Limited extension of the MIS 2 proglacial lake in the Severnaya Dvina valley, south-eastern margin of the last Scandinavian Ice Sheet. Journal of Quaternary Science 39, 82-101, http://doi.org/10.1002/jqs.3570

- lacustrine

Ding, Z., Gong, S., Xiao, G., Wang, Y., Yuan, W., Zhang, J., Wang, J., Lai, Z., 2024. Episodic sediment accumulation linked to global change in the endorheic Qaidam Basin of the Tibetan Plateau revealed by feldspar luminescence dating. Quaternary Geochronology 81, 101522, http://doi.org/10.1016/j.quageo.2024.101522

Kim, T., Seong, Y.B., Sarıkaya, M.A., Jeon, Y., Enkhbold, A., Khukhuudei, U., Binnie, S.A., 2024. Geochronological (36Cl and OSL) and geomorphic insights into the formation of Terkhiin Tsagaan Lake and Khorgo Volcano in Central Mongolia: Unravelling a pre-Holocene paleolake. Geomorphology 456, 109214, http://doi.org/10.1016/j.geomorph.2024.109214

Long, H., Zhang, J., Huang, X., Zhang, A., Yang, N., He, M., Yang, L., 2024. Single-grain K-feldspar luminescence dating of the late Quaternary rapid decline in the largest Lake over the Tibetan Plateau. Quaternary Geochronology 81, 101503, http://doi.org/10.1016/j.quageo.2024.101503

Losen, J., Rizza, M., Nutz, A., Henriquet, M., Schuster, M., Rakhmedinov, E., Baikulov, S., Abdrakhmatov, K., Fleury, J., Siame, L., 2024. Repeated failures of the giant Beshkiol Landslide and their impact on the long-term Naryn Basin floodings, Kyrgyz Tien Shan. Geomorphology 453, 109121, http://doi.org/10.1016/j.geomorph.2024.109121

Stone, A., Bateman, M.D., Sanderson, D., Burrough, S.L., Cutts, R., Cresswell, A., 2024. Probing sediment burial age, provenance and geomorphic processes in dryland dunes and lake shorelines using portable luminescence data. Quaternary Geochronology 82, 101542, http://doi.org/10.1016/j.quageo.2024.101542

Streib, L.C., Armitage, S.J., Scholz, C.A., 2024. Using luminescence dating to constrain lake sediment records: A new age model for the 1.38 Ma lake Malawi drill core, Eastern Africa. Quaternary Science Reviews 334, 108691, http://doi.org/10.1016/j.quascirev.2024.108691

Vidaller, I., Moreno, A., González-Sampériz, P., Pla-Rabés, S., Medialdea, A., del Val, M., López-Moreno, J.I., Valero-Garcés, B., 2024. The last deglaciation in the central Pyrenees: The 47 ka Pllan d'Están paleolake record (Ésera valley). CATENA 241, 108059, http://doi.org/10.1016/j.catena.2024.108059

Wang, H., Wang, P., Hu, G., Xu, B., Yuan, R., Shi, L., Ding, Z., 2024. Age and sedimentology of a Late Pleistocene dammed paleolake in the middle Yarlung Tsangpo River, southern Tibetan Plateau. Quaternary International 682, 35-45, http://doi.org/10.1016/j.quaint.2024.01.009

Wu, C., Liu, G., Cong, L., Li, X., Liu, X., Liu, Y., Wu, D., Zhang, Y., Bai, D., 2024. ENSO-driven hydroclimate changes in central Tibetan Plateau since middle Holocene: Evidence from Zhari Namco's lake sediments. Quaternary Science Reviews 330, 108593, http://doi.org/10.1016/j.quascirev.2024.108593

Zhang, J., Zolitschka, B., Hogrefe, I., Tsukamoto, S., Binot, F., Frechen, M., 2024. High-resolution luminescence-dated sediment record for the last two glacial-interglacial cycles from Rodderberg, Germany. Quaternary Geochronology 82, 101535, http://doi.org/10.1016/j.quageo.2024.101535

Zhang, S., Zhao, H., Wang, L., Chen, Y., Huang, L., Hou, J., Chen, F., 2024. Late quaternary lake level variations of Mabu Co-Gala Co, southern Tibetan plateau, modulated by glacial meltwater, spillover processes and the Indian summer monsoon. Quaternary Science Reviews 334, 108743, http://doi.org/10.1016/j.quascirev.2024.108743

- loess

Buylaert, J.P., Challier, A., Kulakova, E.P., Taratunina, N.A., Thomsen, K.J., Utkina, A.O., Sosin, P.M., Tokareva, O.A., Anoikin, A.A., Khujageldiev, T.U., A, C.K., Ubaydulloev, N.K., Murray, A.S., Kurbanov, R.N., 2024. A luminescence dating study of the upper part of the loess-palaeosol sequence at kuldara, Khovaling Loess Plateau, Tajikistan. Quaternary Geochronology 82, 101545, http://doi.org/10.1016/j.quageo.2024.101545

Ghafarpour, A., Khormali, F., Tazikeh, H., Kehl, M., Frechen, M., Zolitschka, B., 2024. Loess origin and late Pleistocene environmental reconstruction for northeastern Iran: Multiproxy evidences from the Chenarli

loess-paleosol sequence. Quaternary Science Reviews 328, 108545, http://doi.org/10.1016/j.quascirev.2024.108545

Jary, Z., Krawczyk, M., Moska, P., Piotrowska, N., Poręba, G., Raczyk, J., Skurzyński, J., Łopuch, M., Zöller, L., 2023. Chronostratigraphy of the Periglacial Loess-Paleosol Sequence in Zaprężyn, SW Poland. Geochronometria 50, 144-156, http://doi.org/10.2478/geochr-2023-0014

Li, G., Yan, Z., Song, Y., Fitzsimmons, K.E., Yi, S., Kang, S., E, C., Stevens, T., Lai, Z., Dave, A.K., Chen, C., Deng, Y., Yang, H., Wang, L., Zhang, X., Qin, C., Zhao, Q., Buylaert, J.-P., Lu, T., Wang, Y., Liu, X., Ling, Z., Chang, Q., Wei, H., Wang, X., Chen, F., 2024. A comprehensive dataset of luminescence chronologies and environmental proxy indices of loess-paleosol deposits across Asia. Climate and Atmospheric Science 7, 7, http://doi.org/10.1038/s41612-023-00555-4

Li, J., Brye, K.R., Sun, Z.-X., Owens, P.R., Jiang, Z.-D., Wang, T.-H., Zhang, M.-G., Wang, Q.-B., 2024. Reconstructing the Last 71 ka Paleoclimate in Northeast China by Integrating Typical Loess Sections. Quaternary 7, http://doi.org/10.3390/quat7010007

Li, X., Zhou, Y., Han, Z., Yuan, X., Yi, S., Zeng, Y., Qin, L., Lu, M., Lu, H., 2024. Loess deposits in the low latitudes of East Asia reveal the ~20-kyr precipitation cycle. Nature Communications 15, 1023, http://doi.org/10.1038/s41467-024-45379-9

Makeev, A., Rusakov, A., Kust, P., Lebedeva, M., Khokhlova, O., 2024. Loess-paleosol sequence and environmental trends during the MIS5 at the southern margin of the Middle Russian Upland. Quaternary Science Reviews 328, 108372, http://doi.org/10.1016/j.quascirev.2023.108372

Marković, S.B., Vandenberghe, J., Perić, Z.M., Filyó, D., Bartyik, T., Radaković, M.G., Hao, Q., Marković, R.S., Lukić, T., Tomić, N., Gavrilov, M.B., Antić, A., Cvijanović, I., Sipos, G., 2023. Local Differentiation in the Loess Deposition as a Function of Dust Source: Key Study Novo Orahovo Loess Paleosol Sequence (Vojvodina, Serbia). Quaternary 6, http://doi.org/10.3390/quat6010023

Pan, M., Zhao, H., Yang, A., Chen, Y., Li, C., 2023. Dust transport information and paleoclimatic changes revealed by the loess in Ranwu, south-eastern Xizang. Frontiers of Earth Science 17, 956-969, http://doi.org/10.1007/s11707-023-1092-8

Pfaffner, N., Kadereit, A., Karius, V., Kolb, T., Kreutzer, S., Sauer, D., 2024. Reconstructing the Eemian to Middle Pleniglacial pedosedimentary evolution of the Baix loess–palaeosol sequence (Rhône Rift Valley, southern France) – basic chronostratigraphic framework and palaeosol characterisation. E&G Quaternary Science Journal 73, 1-22, http://doi.org/10.5194/egqsj-73-1-2024

Plata, J.M., Balasch, J.C., Boixadera, J., Baltiérrez, A., Preusser, F., Poch, R.M., 2024. Source areas and paleoenvironmental reconstruction of the Serra d'Almenara loess (NE Ebro Valley, Iberian Peninsula) from grain-size and heavy mineral signatures. Geomorphology 451, 109085, http://doi.org/10.1016/j.geomorph.2024.109085

Wang, L., Chen, S., Zhao, H., Fan, Y., Sun, A., Cai, Q., Deng, H., Ai, J., Zhang, H., 2024. Thermoluminescence dating of gypsum in loess deposits. Quaternary Geochronology 81, 101501, http://doi.org/10.1016/j.quageo.2024.101501

Zhang, J., Hao, Q., Li, S.-H., 2022. An absolutely dated record of climate change over the last three glacial–interglacial cycles from Chinese loess deposits. Geology 50, 1116-1120, http://doi.org/10.1130/G50125.1

Zhang, J., Zolitschka, B., Hogrefe, I., Tsukamoto, S., Binot, F., Frechen, M., 2024. High-resolution luminescence-dated sediment record for the last two glacial-interglacial cycles from Rodderberg, Germany. Quaternary Geochronology 82, 101535, http://doi.org/10.1016/j.quageo.2024.101535

- marine

Waajen, I.M., Busschers, F.S., Donders, T.H., Van Heteren, S., Plets, R., Wallinga, J., Hennekam, R., Reichart, G.-J., Kinnaird, T., Wagner-Cremer, F., 2024. Late MIS5a in the southern North Sea: new chronostratigraphic insights from the Brown Bank Formation. Journal of Quaternary Science 39, 408-420, http://doi.org/10.1002/jqs.3592

- surface exposure dating

al Khasawneh, S., Abudanah, F., Thompson, W., Murray, A., 2024. The Big Circles in Jordan: First absolute ages using rock luminescence surface dating. Geoarchaeology 39, 95-105, http://doi.org/10.1002/gea.21982

Alexanderson, H., Möller, P., Jain, M., Knudsen, M.F., Larsen, N.K., Perić, Z.M., Søndergaard, A.S., Thompson, W., 2024. Coupled luminescence and cosmogenic nuclide dating of postglacial deflation surfaces and sand drift on a raised ice-contact delta at Veinge, SW Sweden. Quaternary Geochronology 80, 101500, http://doi.org/10.1016/j.quageo.2024.101500

Cui, F., Kook, M., Murray, A.S., Qin, J., Liu, J., Jain, M., 2024. Do attenuation coefficients based on luminescence bleaching fronts reflect true light attenuation in rocks? Radiation Measurements 174, 107129, http://doi.org/10.1016/j.radmeas.2024.107129

Gliganic, L.A., McDonald, J., Meyer, M.C., 2023. Luminescence rock surface exposure and burial dating: a review of an innovative new method and its applications in archaeology. Archaeological and Anthropological Sciences 16, 17, http://doi.org/10.1007/s12520-023-01915-0

Marik, M., Serra, E., Gegg, L., Wölki, D., Preusser, F., 2024. Combined different luminescence dating approaches on fluvial gravel deposits from the southern upper Rhine graben. Quaternary Geochronology 82, 101536, http://doi.org/10.1016/j.quageo.2024.101536

Rades, E.F., Sohbati, R., Alexanderson, H., Jain, M., Murray, A.S., 2024. Exploring the potential of rock surface luminescence from glacial sediments: dating and transport history. Boreas 53, 227-242, http://doi.org/10.1111/bor.12648

Thompson, W.K., Christensen, J., Murray, A.S., Autzen, M., 2024. Direct dating of an ancient stone causeway at Karlslunde, Sjælland, Denmark: A combined approach using luminescence from the surfaces of granitic cobbles and coarse grains from disaggregated heated rocks. Quaternary Geochronology 82, 101549, http://doi.org/10.1016/j.quageo.2024.101549

Yang, K., Ou, X., Li, Y., Jenkins, G., Yao, P., Tang, D., Xu, Y., Xie, J., Zeng, L., Liu, X., 2024. Luminescence dating of cobbles buried in moraines from the source area of the Litang River (Konglongluo Valley), eastern Tibetan Plateau. Quaternary Geochronology 82, 101547, http://doi.org/10.1016/j.quageo.2024.101547

- tephra (and volcanic related)

Wang, C.-X., Huang, C., Fan, A., Li, S.-H., 2024. The De underestimation caused by the unstable medium component in the initial OSL signal from lava-baked quartz and correction strategies. Quaternary Geochronology 82, 101532, http://doi.org/10.1016/j.quageo.2024.101532

- thermochronology

Guralnik, B., Tremblay, M.M., Phillips, M., Sellwood, E.L., Gribenski, N., Presl, R., Haberkorn, A., Sohbati, R., Shuster, D.L., Valla, P.G., Jain, M., Schindler, K., Wallinga, J., Hippe, K., 2024. Three Centuries of Snowpack Decline at an Alpine Pass Revealed by Cosmogenic Paleothermometry and Luminescence Photochronometry. Geophysical Research Letters 51, e2023GL107385, http://doi.org/10.1029/2023GL107385 `

Wen, X., Bartz, M., Schmidt, C., King, G.E., 2024. ESR and luminescence thermochronometry of the Rhône valley, Switzerland. Quaternary Geochronology 80, 101496, http://doi.org/10.1016/j.quageo.2023.101496

Archaeological applications

al Khasawneh, S., Abudanah, F., Thompson, W., Murray, A., 2024. The Big Circles in Jordan: First absolute ages using rock luminescence surface dating. Geoarchaeology 39, 95-105, http://doi.org/10.1002/gea.21982

al Khasawneh, S., Alqudah, M., Murray, A., Kafafi, Z., 2024. Investigating the Neolithic rubble layers of 'Ain Ghazal, Jordan, using luminescence dating. Archaeological and Anthropological Sciences 16, 41, http://doi.org/10.1007/s12520-024-01947-0

Bahain, J.-J., Tombret, O., Garbé, L., Falguères, C., Koehler, H., Wegmüller, F., 2024. ESR/U-series dating of palaeontological remains from the Neanderthal site of Mutzig-Rain (Alsace, France). Quaternary Geochronology 81, 101517, http://doi.org/10.1016/j.quageo.2024.101517

Bird, M.I., Brand, M., Comley, R., Fu, X., Hadeen, X., Jacobs, Z., Rowe, C., Wurster, C.M., Zwart, C., Bradshaw, C.J.A., 2024. Late Pleistocene emergence of an anthropogenic fire regime in Australia's tropical savannahs. Nature Geoscience 17, 233-240, http://doi.org/10.1038/s41561-024-01388-3

Busch, R., Bernbeck, R., Hessari, M., Kirsten, F., Lüthgens, C., Pollock, S., Rol, N., Schütt, B., 2024. Linking archaeology and paleoenvironment: Mid-Holocene occupational sequences in the Varamin Plain (Iran). Geoarchaeology 39, 355-374, http://doi.org/10.1002/gea.21995

Chen, G., Li, G., Liu, M., Luo, K., Huang, Y., Bao, C., Zhan, C., 2024. Paleo-tropical cyclone activity over the last millennium inferred from shipwreck relics in the Xisha Islands, northern South China Sea. Marine Geology 471, 107288, http://doi.org/10.1016/j.margeo.2024.107288

Davidovich, U., Wachtel, I., Halevi, R., Zidon, R., Lazagabaster, I.A., Rovelli, V., Meiri, M., Porat, R., Ullman, M., Jacobi, Y., Ilany, A., Marom, N., Porat, N., 2024. Leopard traps in the Judean Desert reveal long-term impact of humans on top predator populations. Quaternary Science Reviews 333, 108667, http://doi.org/10.1016/j.quascirev.2024.108667

Davis, L.G., Madsen, D.B., Sisson, D.A., Becerra-Valdivia, L., Higham, T., Stueber, D., Bean, D.W., Nyers, A.J., Carroll, A., Ryder, C., Sponheimer, M., Izuho, M., Iizuka, F., Li, G., Epps, C.W., Halford, F.K., 2022. Dating of a large tool assemblage at the Cooper's Ferry site (Idaho, USA) to ~15,785 cal yr B.P. extends the age of stemmed points in the Americas. Science Advances 8, eade1248, http://doi.org/10.1126/sciadv.ade1248

Duval, M., Arnold, L.J., Bahain, J.-J., Parés, J.M., Demuro, M., Falguères, C., Shao, Q., Voinchet, P., Arnaud, J., Berto, C., Berruti, G.L.F., Daffara, S., Sala, B., Arzarello, M., 2024. Re-examining the earliest evidence of human presence in western Europe: New dating results from Pirro Nord (Italy). Quaternary Geochronology 82, 101519, http://doi.org/10.1016/j.quageo.2024.101519

Falguères, C., Lahaye, C., Tombret, O., Garbé, L., Lebrun, B., Bahain, J.-J., Frerebeau, N., Giuliani, C., Brugal, J.-P., 2024. ESR/U-series and pIR-IR290 dating of the Middle Pleistocene site of Lunel-Viel (LV I), Hérault, Southern France. Quaternary Geochronology 81, 101516, http://doi.org/10.1016/j.quageo.2024.101516

Feathers, J., Quilter, J., LeBlanc, S., 2024. Luminescence dating of adobe from monumental architecture in north coastal Peru. Journal of Archaeological Science: Reports 56, 104568, http://doi.org/10.1016/j.jasrep.2024.104568

Fonte, J., Tereso, J.P., Costa Vaz, F., Rodrigues, A.L., Dias, M.I., Marques, R., Russo, D., Monteiro, P., Costa Rodrigues, M., Pereiro, T., Carvalho, J., Raimundo, F., Cardoso, V., Jorge, C., García Sánchez, J., Gago, M., Gonçalves, J.A., Meunier, E., Oliveira, N., Oltean, I., 2024. Roman-indigenous interaction in the Salas River valley (Northwest Iberia): the Roman camp of Alto da Raia and its archaeological landscape. SPAL. Revista de Prehistoria y Arqueología de la Universidad de Sevilla 1, 137-163, http://doi.org/10.12795/spal.2024.i33.06

Ge, J., Xing, S., Grün, R., Deng, C., Jiang, Y., Jiang, T., Yang, S., Zhao, K., Gao, X., Yang, H., Guo, Z., Petraglia, M.D., Shao, Q., 2024. New Late Pleistocene age for the Homo sapiens skeleton from Liujiang southern China. Nature Communications 15, 3611, http://doi.org/10.1038/s41467-024-47787-3

Heydari, M., Guérin, G., Heydari-Guran, S., 2024. A Bayesian luminescence chronology for the Bawa Yawan Rock Shelter at the Central Zagros Mountains (Western Iran). Quaternary International 680, 64-75, http://doi.org/10.1016/j.quaint.2023.12.007

https://doi.org/10.5194/gchron-2022-27Ginter, A., Moska, P., Poręba, G., Tudyka, K., Szymak, A., Szczurek, G., 2022. ABSOLUTE DATES OF ARTIFACTS FROM LUSATIAN URNFIELD CEMETERY AT BRZEZIE, GREATER POLAND. Radiocarbon 64, 1471-1482, http://doi.org/10.1017/RDC.2022.70

Hu, Y., Fan, A., Shao, Q.-F., Li, S.-H., Hou, Y.-M., Zhao, L.-X., Zhou, Y., Sun, J.-H., Yang, Y.-M., Gao, L.-H., Li, B., 2024. New age of the Dingcun 54:100 hominin site in northern China. Journal of Archaeological Science: Reports 55, 104502, http://doi.org/10.1016/j.jasrep.2024.104502

Jin, J., Qiu, J., Ling, Z., Wei, J., Zuo, X., Li, Z., Hou, C., Xu, D., 2023. Luminescence chronology of reticulated laterites in the humid subtropical mountains of South China. Paleoceanography and Paleoclimatology 38, e2022PA004603, http://doi.org/10.1029/2022PA004603

Legendziewicz, A., Legendziewicz, J., 2024. Thermoluminescence studies of a Gothic church in Świebodzin from Silesia in Poland. Optical Materials: X 23, 100308, http://doi.org/10.1016/j.omx.2024.100308

Li, G., Deng, Y., Ren, H., Tu, H., Lai, J., Yang, H., Gou, S., Wang, Y., Zhang, Y., Lai, Z., Yuan, W., Wang, Y., Petraglia, M.D., 2024. Chronology and paleoclimatic context of hominin occupations in the Fenhe River Basin of northern China during the middle to Late Pleistocene. Quaternary Science Reviews 326, 108499, http://doi.org/10.1016/j.quascirev.2023.108499

Licheli, V., Chikvaidze, E.N., Gavasheli, T.A., Mamniashvili, G.I., Gegechkori, T.O., Gogebashvili, M.E., Ivanishvili, N.I., 2021. Electron paramagnetic resonance method for dating of archeological sites in Georgia. Journal of Radiobiology and Radiation Safety 1, 65-70, https://radiobiology.ge/index.php/rrs/article/view/3303/3531

Louys, J., Duval, M., Beck, R.M.D., Pease, E., Sobbe, I., Sands, N., Price, G.J., 2022. Cranial remains of Ramsayia magna from the Late Pleistocene of Australia and the evolution of gigantism in wombats (Marsupialia, Vombatidae). Papers in Palaeontology 8, e1475, http://doi.org/10.1002/spp2.1475

Mandera, S., Sudoł-Procyk, M., Malak, M., Skrzatek, M., Krajcarz, M.T., 2024. New deposit of chocolate flint in Załęże gully (Kraków-Częstochowa Upland, Poland) – Raw material characterization and its availability for prehistoric communities. Journal of Archaeological Science: Reports 53, 104328, http://doi.org/10.1016/j.jasrep.2023.104328

Masojć, M., Kim, J.Y., Ahn, H.-S., Kim, J.C., Lee, Y.S., Sohn, Y.K., Michalec, G., Nassr, A., 2024. Heavily eroded Pleistocene landscape and site-forming processes of the Acheulean artifacts-bearing Holocene sediments, Eastern Desert, Sudan. Quaternary Science Advances 14, 100193, http://doi.org/10.1016/j.qsa.2024.100193

Oron, M., Hovers, E., Porat, N., Roskin, J., Abulafia, T., 2024. Nubian Levallois Technology During MIS 5: Refitted Lithic Sequences and OSL Ages of Dimona South, Israel, and Their Broader Implications. Journal of Paleolithic Archaeology 7, 4, http://doi.org/10.1007/s41982-024-00170-6

Owen, T., Munt, S., Player, S., Toms, P., Wood, J., 2024. First Nations pre-LGM ochre processing in Parramatta, NSW, Australia. Archaeology in Oceania 59, 125-137, http://doi.org/10.1002/arco.5313

Pereira, A., Moncel, M.-H., Nomade, S., Voinchet, P., Shao, Q., Falguères, C., Lefèvre, D., Raynal, J.P., Scao, V., Piperno, M., Simone, S., Bahain, J.J., 2024. Update and synthesis of the available archaeological and geochronological data for the Lower Paleolithic site of Loreto at Venosa (Basilicata, Italy). Quaternary Research 119, 12-27, http://doi.org/10.1017/qua.2023.71

Poledník Mohammadi, S., Šitnerová, I., Lisá, L., Bumerl, J., Komárková, V., Fanta, V., Majerovičová, T., Marko, J., Moska, P., Beneš, J., 2024. The medieval croft plužina field system in a mountain region of central Europe: The interdisciplinary record of the earthen field boundaries in Debrné, Czechia. Geoarchaeology 39, 428-449, http://doi.org/10.1002/gea.21998

Qiu, Y., Shu, P., Ao, H., Zhang, Y., Wei, Q., Li, X., Chen, H., Wang, H., Ambrose, S.H., 2024. The earliest microblade site 6800 years ago reveals broader social dimension than previous thought at the central high altitude Tibetan plateau. Quaternary Science Reviews 328, 108551, http://doi.org/10.1016/j.quascirev.2024.108551

Rios-Garaizar, J., Sánchez-Romero, L., Arriolabengoa, M., Benito-Calvo, A., Expósito, I., Del Val, M., Karambaglidis, T., Marín-Arroyo, A.B., Pérez-Garrido, C., Arenas-Sorriqueta, E., Eixea, A., Gómez-Olivencia, A., Agudo-Pérez, L., San Emeterio, A., Antxieta Arkeologi, T., 2024. MIS5-MIS3 Neanderthal occupations at Amalda III cave (Northern Iberian Peninsula). Quaternary Science Reviews 333, 108666, http://doi.org/10.1016/j.quascirev.2024.108666

Sanjurjo-Sánchez, J., Blanco-Rotea, R., Benavides, R., Freire-Lista, D.M., Sánchez-Pardo, J.C., Prudêncio, I., Dias, I., Burbidge, C.I., 2024. Dating mortars and bricks of Santalla de Bóveda Monument (Lugo, NW Spain). Journal of Cultural Heritage 67, 488-499, http://doi.org/10.1016/j.culher.2024.04.009

Santamaría, M., Navazo, M., Benito-Calvo, A., Medialdea, A., Carbonell, E., 2024. Valdeprovedo open-air site: a knapping event in the early Upper Paleolithic of the Sierra de Atapuerca (Burgos, Spain). Archaeological and Anthropological Sciences 16, 24, http://doi.org/10.1007/s12520-023-01927-w

Tang, D., Liu, X., Dong, G., Han, J., Zhang, X., Goswami, K., Ou, X., 2024. Multiple luminescence dating on heated materials at the nanzuo archaeological site, central Chinese Loess Plateau. Journal of Archaeological Science 167, 106005, http://doi.org/10.1016/j.jas.2024.106005

Thompson, W.K., Christensen, J., Murray, A.S., Autzen, M., 2024. Direct dating of an ancient stone causeway at Karlslunde, Sjælland, Denmark: A combined approach using luminescence from the surfaces of granitic cobbles and coarse grains from disaggregated heated rocks. Quaternary Geochronology 82, 101549, http://doi.org/10.1016/j.quageo.2024.101549

Urbanová, P., Panzeri, L., Sanjurjo-Sánchez, J., Martini, M., Maspero, F., Guibert, P., Galli, A., 2024. OPTICALLY STIMULATED LUMINESCENCE (OSL) MORTAR DATING INTER-COMPARISON STUDY. THE SECOND ROUND OF MODIS, MORTAR DATING INTER-COMPARISON STUDY. Radiocarbon, 1-13, http://doi.org/10.1017/RDC.2023.124

Vafiadou, A., Liritzis, I., Vafiadou, A., Polymeris, G.S., Kitis, G., Iliopoulos, I., Xanthopoulou, V., 2027. Luminescence dating of limestone walls and pottery from Ithaca (school of Homer); first ages. Scientific Culture 10, 15-33, http://doi.org/10.5281/zenodo.10622009

Yang, S.-X., Zhang, J.-F., Yue, J.-P., Wood, R., Guo, Y.-J., Wang, H., Luo, W.-G., Zhang, Y., Raguin, E., Zhao, K.-L., Zhang, Y.-X., Huan, F.-X., Hou, Y.-M., Huang, W.-W., Wang, Y.-R., Shi, J.-M., Yuan, B.-Y., Ollé, A., Queffelec, A., Zhou, L.-P., Deng, C.-L., d'Errico, F., Petraglia, M., 2024. Initial Upper Palaeolithic material culture by 45,000 years ago at Shiyu in northern China. Nature Ecology & Evolution, http://doi.org/10.1038/s41559-023-02294-4

Zhang, Y., Westaway, K.E., Haberle, S., Lubeek, J.K., Bailey, M., Ciochon, R., Morley, M.W., Roberts, P., Zhao, J.-x., Duval, M., Dosseto, A., Pan, Y., Rule, S., Liao, W., Gully, G.A., Lucas, M., Mo, J., Yang, L., Cai, Y., Wang, W., Joannes-Boyau, R., 2024. The demise of the giant ape Gigantopithecus blacki. Nature, http://doi.org/10.1038/s41586-023-06900-0

Zhao, N., Wang, J., Zhou, L., Li, S., Ren, H., Du, S., 2024. Luminescence chronology of the Xiachuan Paleolithic site in Shanxi Province, northern China: A comparison between OSL and post-IR IRSL ages. Quaternary International 691, 31-39, http://doi.org/10.1016/j.quaint.2024.02.016

ESR, applied in various contexts

Bahain, J.-J., Tombret, O., Garbé, L., Falguères, C., Koehler, H., Wegmüller, F., 2024. ESR/U-series dating of palaeontological remains from the Neanderthal site of Mutzig-Rain (Alsace, France). Quaternary Geochronology 81, 101517, http://doi.org/10.1016/j.quageo.2024.101517

Ben Arous, E., Duttine, M., Duval, M., 2024. How to measure the ESR intensity of the Al centre in optically bleached coarse quartz grains for dating purpose? Radiation Physics and Chemistry 214, 111307, http://doi.org/10.1016/j.radphyschem.2023.111307

Dave, A.K., Constantin, D., Roban, R.D., Ducea, M.N., Panaiotu, C., Timar-Gabor, A., 2024. Investigations on single and multi-grain optically stimulated luminescence (OSL) sensitivity and electron spin resonance (ESR) signals in quartz derived from sandstones: Insights on provenance of quartz in ancient depositional systems. Quaternary Geochronology 82, 101548, http://doi.org/10.1016/j.quageo.2024.101548

Dong, W., Yu, S., Hu, Q., Wu, J., Lei, D., Cai, Y., 2023. Electron Spin Resonance Dating of the Quaternary Fluvial Terrace System of the Upper Han River, Central China. Geochronometria 50, 157-165, http://doi.org/10.2478/geochr-2023-0013

Duval, M., Arnold, L.J., Bahain, J.-J., Parés, J.M., Demuro, M., Falguères, C., Shao, Q., Voinchet, P., Arnaud, J., Berto, C., Berruti, G.L.F., Daffara, S., Sala, B., Arzarello, M., 2024. Re-examining the earliest evidence of human presence in western Europe: New dating results from Pirro Nord (Italy). Quaternary Geochronology 82, 101519, http://doi.org/10.1016/j.quageo.2024.101519

Falguères, C., Lahaye, C., Tombret, O., Garbé, L., Lebrun, B., Bahain, J.-J., Frerebeau, N., Giuliani, C., Brugal, J.-P., 2024. ESR/U-series and pIR-IR290 dating of the Middle Pleistocene site of Lunel-Viel (LV I), Hérault, Southern France. Quaternary Geochronology 81, 101516, http://doi.org/10.1016/j.quageo.2024.101516

Ghimire, L., Waller, E., 2024. Electron Paramagnetic Resonance (EPR) Biodosimetry with Human Teeth: A Crucial Technique for Acute and Chronic Exposure Assessment. Health Physics 126, 322-338, https://journals.lww.com/health-physics/fulltext/2024/05000/electron_paramagnetic_resonance__epr__biodosimetry.9.aspx

Ji, H., Liu, C.-r., Wei, C.-y., Yin, G.-m., 2024. Optical bleaching and thermal stability of ESR signals in fault-related carbonates. Radiation Physics and Chemistry 218, 111584, http://doi.org/10.1016/j.radphyschem.2024.111584

Licheli, V., Chikvaidze, E.N., Gavasheli, T.A., Mamniashvili, G.I., Gegechkori, T.O., Gogebashvili, M.E., Ivanishvili, N.I., 2021. Electron paramagnetic resonance method for dating of archeological sites in Georgia. Journal of Radiobiology and Radiation Safety 1, 65-70, https://radiobiology.ge/index.php/rrs/article/view/3303/3531

Liu, X., Yang, J., Zhao, L., Liu, Y., Gao, F., Tang, J., Wang, H., Chen, Z., Wang, S., Li, G., Lu, H., Li, Z., Wang, F., Xia, D., 2024. Aeolian activity in the Yarlung Zangbo River Basin, southern Tibetan Plateau, began at 584 ka: implications for the glaciation of the Tibetan Plateau. Quaternary Science Reviews 337, 108799, http://doi.org/10.1016/j.quascirev.2024.108799

Louys, J., Duval, M., Beck, R.M.D., Pease, E., Sobbe, I., Sands, N., Price, G.J., 2022. Cranial remains of Ramsayia magna from the Late Pleistocene of Australia and the evolution of gigantism in wombats (Marsupialia, Vombatidae). Papers in Palaeontology 8, e1475, http://doi.org/10.1002/spp2.1475

Pereira, A., Moncel, M.-H., Nomade, S., Voinchet, P., Shao, Q., Falguères, C., Lefèvre, D., Raynal, J.P., Scao, V., Piperno, M., Simone, S., Bahain, J.J., 2024. Update and synthesis of the available archaeological and geochronological data for the Lower Paleolithic site of Loreto at Venosa (Basilicata, Italy). Quaternary Research 119, 12-27, http://doi.org/10.1017/qua.2023.71

Prince, E., Tsukamoto, S., Grützner, C., Vrabec, M., Ustaszewski, K., 2024. Not too old to rock: ESR and OSL dating reveal Quaternary activity of the Periadriatic Fault in the Alps. Earth, Planets and Space 76, 85, http://doi.org/10.1186/s40623-024-02015-6

Shen, X., Hong, H., Huang, S., Algeo, T.J., Huang, Q., Bae, C.J., Yin, K., Wang, C., Fang, Q., Liu, C., 2023. Terrestrial paleoclimate changes recorded by Pleistocene red earth deposits at the Gaolingpo Paleolithic site, Bose Basin, South China. Palaeogeography, Palaeoclimatology, Palaeoecology 614, 111438, http://doi.org/10.1016/j.palaeo.2023.111438

Silva, P.G., Tapias, F., Élez, J., Roquero, E., Gutiérrez, F., del Val, M., Perez-Torrado, F.J., Giner-Robles, J.L., Moreno, D., 2024. Evolution of the Júcar-Cabriel fluvial system on the Mediterranean watershed of the Iberian Peninsula (Valencia, eastern Spain). Geomorphology 450, 109066, http://doi.org/10.1016/j.geomorph.2024.109066

Stepanenko, V., Shinkarev, S., Kaprin, A., Apsalikov, K., Ivanov, S., Shegay, P., Ostroumova, E., Kesminiene, A., Lipikhina, A., Bogacheva, V., Zhumadilov, K., Yamamoto, M., Sakaguchi, A., Endo, S., Fujimoto, N., Grosche, B., Iatsenko, V., Androsova, A., Apsalikova, Z., Kawano, N., Hoshi, M., 2024. Comparison

of external dose estimates using different retrospective dosimetry methods in the settlements located near Semipalatinsk Nuclear Test Site, Republic of Kazakhstan. Journal of Radiation Research 65, 36-46, http://doi.org/10.1093/jrr/rrad082

Wen, X., Bartz, M., Schmidt, C., King, G.E., 2024. ESR and luminescence thermochronometry of the Rhône valley, Switzerland. Quaternary Geochronology 80, 101496, http://doi.org/10.1016/j.quageo.2023.101496

Zhang, Y., Westaway, K.E., Haberle, S., Lubeek, J.K., Bailey, M., Ciochon, R., Morley, M.W., Roberts, P., Zhao, J.-x., Duval, M., Dosseto, A., Pan, Y., Rule, S., Liao, W., Gully, G.A., Lucas, M., Mo, J., Yang, L., Cai, Y., Wang, W., Joannes-Boyau, R., 2024. The demise of the giant ape Gigantopithecus blacki. Nature, http://doi.org/10.1038/s41586-023-06900-0

Basic research

Ben Arous, E., Duttine, M., Duval, M., 2024. How to measure the ESR intensity of the Al centre in optically bleached coarse quartz grains for dating purpose? Radiation Physics and Chemistry 214, 111307, http://doi.org/10.1016/j.radphyschem.2023.111307

Colarossi, D., Duller, G.A.T., Roberts, H.M., 2024. Assessing whether a thermoluminescence peak at ~100 °C in calcitic opercula can be used to monitor thermal reproducibility. Radiation Measurements 174, 107115, http://doi.org/10.1016/j.radmeas.2024.107115

Cui, F., Kook, M., Murray, A.S., Qin, J., Liu, J., Jain, M., 2024. Do attenuation coefficients based on luminescence bleaching fronts reflect true light attenuation in rocks? Radiation Measurements 174, 107129, http://doi.org/10.1016/j.radmeas.2024.107129

Dave, A.K., Constantin, D., Roban, R.D., Ducea, M.N., Panaiotu, C., Timar-Gabor, A., 2024. Investigations on single and multi-grain optically stimulated luminescence (OSL) sensitivity and electron spin resonance (ESR) signals in quartz derived from sandstones: Insights on provenance of quartz in ancient depositional systems. Quaternary Geochronology 82, 101548, http://doi.org/10.1016/j.quageo.2024.101548

Discher, M., Bassinet, C., Kim, H., 2024. On the use of new vs. heated sample carriers for luminescence measurements. Radiation Measurements 174, 107136, http://doi.org/10.1016/j.radmeas.2024.107136

Duller, G.A.T., Roberts, H.M., 2024. Chasing snails: Automating the processing of EMCCD images of luminescence from opercula. Radiation Measurements 172, 107084, http://doi.org/10.1016/j.radmeas.2024.107084

Ferreira, I.A., Nunes, M.C.S., Yoshimura, E.M., Trindade, N.M., Chithambo, M.L., 2024. A first look at phototransferred thermoluminescence of rose quartz. Radiation Measurements 174, 107138, http://doi.org/10.1016/j.radmeas.2024.107138

Kalita, J.M., Chithambo, M.L., 2022. Phototransferred thermoluminescence characteristics of microcline ($KAlSi_3O_8$) under 470 nm blue- and 870 nm infrared-light illumination. Applied Radiation and Isotopes 181, 110070, http://doi.org/10.1016/j.apradiso.2021.110070

Kara, E., Woda, C., 2024. Correlation between thermoluminescence and optically stimulated luminescence signal in BeO. Radiation Measurements 170, 107049, http://doi.org/10.1016/j.radmeas.2023.107049

Karimi Moayed, N., Fattahi, M., Autzen, M., Haghshenas, E., Tajik, V., Shoaie, Z., Bailey, M., Sohbati, R., Murray, A.S., 2024. The sensitisation of quartz extracted from andesite. Radiation Measurements 170, 107048, http://doi.org/10.1016/j.radmeas.2023.107048

Kim, J.C., 2024. Evaluation of the modified single-aliquot regenerative-dose procedure for equivalent dose determination. Radiation Physics and Chemistry 218, 111535, http://doi.org/10.1016/j.radphyschem.2024.111535

Mateusa F., C., Asfora, V.K., Guzzo, P.L., 2022. Comparing the monochromatic TL response of a high sensitivity natural quartz irradiated with β and γ rays. Brazilian Journal of Radiation Sciences 10, 1-18, http://doi.org/10.15392/bjrs.v10i2A.2026

Mey, J., Schwanghart, W., de Boer, A.M., Reimann, T., 2023. Differential bleaching of quartz and feldspar luminescence signals under high-turbidity conditions. Geochronology 5, 377-389, http://doi.org/10.5194/gchron-5-377-2023

Palczewski, P., Bailat, C., Chruścińska, A., Cresswell, A.J., Duller, G.A.T., Fasoli, M., Fitzgerald, S., Martini, M., Polymeris, G.S., Roberts, H.M., Sanderson, D.C.W., Schmidt, C., Spencer, J.Q.G., 2024. Testing emergency radiation doses by metastable TL peaks in quartz − preliminary investigations. Radiation Measurements 174, 107128, http://doi.org/10.1016/j.radmeas.2024.107128

Pandey, R., Kumar, R., Tiwari, S., 2022. Effect Of Electric Field On Luminescence. A Minireview. Romanian Journal of Biophysics 32, https://www.rjb.ro/wp-content/uploads/4-Ruchi-2.pdf

Riedesel, S., Jain, M., 2024. Excited state lifetime of electron trapping centres in alkali feldspars. Radiation Measurements 172, 107081, http://doi.org/10.1016/j.radmeas.2024.107081

Rizza, M., Rixhon, G., Valla, P.G., Gairoard, S., Delanghe, D., Fleury, J., Tal, M., Groleau, S., 2024. Revisiting a proof of concept in quartz-OSL bleaching processes using sands from a modern-day river (the Séveraisse, French Alps). Quaternary Geochronology 82, 101520, http://doi.org/10.1016/j.quageo.2024.101520

Saktura, R.B.K., Li, B., Roberts, R.G., Jacobs, Z., 2024. Correlations between quartz OSL dose-response curve and TL glow curve characteristics, and their implications for equivalent dose estimation. Quaternary Geochronology 82, 101533, http://doi.org/10.1016/j.quageo.2024.101533

Soares, B.R., Asfora, V.K., Guzzo, P.L., 2022. Effect of blue light bleaching in a high TL sensitivity natural quartz crystal. Brazilian Journal of Radiation Sciences 10, http://doi.org/10.15392/bjrs.v10i2A.2027

Sontag-González, M., Kumar, R., Schwenninger, J.L., Thieme, J., Kreutzer, S., Frouin, M., 2024. Short communication: Synchrotron-based elemental mapping of single grains to investigate variable infrared-radiofluorescence emissions for luminescence dating. Geochronology 6, 77-88, http://doi.org/10.5194/gchron-6-77-2024

Wang, C.-X., Huang, C., Fan, A., Li, S.-H., 2024. The De underestimation caused by the unstable medium component in the initial OSL signal from lava-baked quartz and correction strategies. Quaternary Geochronology 82, 101532, http://doi.org/10.1016/j.quageo.2024.101532

Zhang, J., 2024. Effect of alpha irradiation on the saturation characteristics of fine-grained quartz OSL. Radiation Measurements 173, 107096, http://doi.org/10.1016/j.radmeas.2024.107096

Beyond quartz and K-feldspar: non-traditional minerals

- calcite

Duller, G.A.T., Roberts, H.M., 2024. Chasing snails: Automating the processing of EMCCD images of luminescence from opercula. Radiation Measurements 172, 107084, http://doi.org/10.1016/j.radmeas.2024.107084

- gypsum

Wang, L., Chen, S., Zhao, H., Fan, Y., Sun, A., Cai, Q., Deng, H., Ai, J., Zhang, H., 2024. Thermoluminescence dating of gypsum in loess deposits. Quaternary Geochronology 81, 101501, http://doi.org/10.1016/j.quageo.2024.101501

- opal

Spencer, J.Q.G., Sanderson, D.C.W., Rader, M., Fitzgerald, S.K., Rex, C.L., Sprynskyy, M., Staff, R.A., 2024. Luminescence and thermometry studies of plant opal phytoliths. Quaternary Geochronology 82, 101544, http://doi.org/10.1016/j.quageo.2024.101544

- salt

Alghamdi, H.M.S., Sanderson, D.C.W., Cresswell, A.J., Fitzgerald, S., 2024. Radiological or nuclear emergency OSL dosimetry using commonplace salt. Radiation Measurements 174, 107141, http://doi.org/10.1016/j.radmeas.2024.107141

Dose rate

Ishii, Y., Ito, K., 2024. Luminescence dating of sand matrices within gravelly fluvial deposits: Assessing the plausibility of beta dose rate calculation. Quaternary Science Advances 13, 100160, http://doi.org/10.1016/j.qsa.2023.100160

Martin, L., Duval, M., Arnold, L.J., 2024. To what extent do field conditions affect gamma dose rate determination using portable gamma spectrometry? Radiation Physics and Chemistry 216, 111365, http://doi.org/10.1016/j.radphyschem.2023.111365

Dosimetry

Alghamdi, H.M.S., Sanderson, D.C.W., Cresswell, A.J., Fitzgerald, S., 2024. Radiological or nuclear emergency OSL dosimetry using commonplace salt. Radiation Measurements 174, 107141, http://doi.org/10.1016/j.radmeas.2024.107141

Azariasl, S., Yasuda, H., 2024. Comparative study on the impact of storage conditions on ESR signals in fingernail dosimetry. Radiation Measurements 173, 107103, http://doi.org/10.1016/j.radmeas.2024.107103

Discher, M., Bassinet, C., Kim, H., 2024. On the use of new vs. heated sample carriers for luminescence measurements. Radiation Measurements 174, 107136, http://doi.org/10.1016/j.radmeas.2024.107136

Fan, H., Cui, H., Wang, Z., Zhou, H., Wang, S., Chen, W., Li, Z., Li, C., Fu, L., Zhang, S., Li, H., Zeng, Y., Tang, K., 2024. Development of trench-shaped microstructure thermal neutron detector using α-Al2O3:C based on optically stimulated luminescence. Radiation Measurements 175, 107144, http://doi.org/10.1016/j.radmeas.2024.107144

Fleuriot, S., Bassinet, C., 2024. OSL signal of electronic components from portable radios for radiation accident dosimetry. Radiation Measurements 173, 107107, http://doi.org/10.1016/j.radmeas.2024.107107

Ghimire, L., Waller, E., 2024. Electron Paramagnetic Resonance (EPR) Biodosimetry with Human Teeth: A Crucial Technique for Acute and Chronic Exposure Assessment. Health Physics 126, 322-338, https://journals.lww.com/health-physics/fulltext/2024/05000/electron_paramagnetic_resonance__epr__biodosimetry.9.aspx

Kara, E., Woda, C., 2024. Correlation between thermoluminescence and optically stimulated luminescence signal in BeO. Radiation Measurements 170, 107049, http://doi.org/10.1016/j.radmeas.2023.107049

Kato, T., Nakauchi, D., Kawaguchi, N., Yanagida, T., 2024. Thermally stimulated luminescence properties of Mn-doped MgAl2O4 translucent ceramics. Radiation Measurements 173, 107100, http://doi.org/10.1016/j.radmeas.2024.107100

McKeever, S.W.S., 2024. An overview of, and prospects for, new luminescent detectors. Radiation Measurements 171, 107062, http://doi.org/10.1016/j.radmeas.2024.107062

Miyazaki, K., Nakauchi, D., Takebuchi, Y., Kato, T., Kawaguchi, N., Yanagida, T., 2024. Optically-stimulated luminescence and thermoluminescence properties of RbI:Eu single crystals. Radiation Measurements 173, 107102, http://doi.org/10.1016/j.radmeas.2024.107102

Palczewski, P., Bailat, C., Chruścińska, A., Cresswell, A.J., Duller, G.A.T., Fasoli, M., Fitzgerald, S., Martini, M., Polymeris, G.S., Roberts, H.M., Sanderson, D.C.W., Schmidt, C., Spencer, J.Q.G., 2024. Testing emergency radiation doses by metastable TL peaks in quartz − preliminary investigations. Radiation Measurements 174, 107128, http://doi.org/10.1016/j.radmeas.2024.107128

Scott, H., Alvarez, P., Howell, R., Riegel, A., Sun, R., Kry, S., 2024. Lifetime extension of optically stimulated luminescent dosimeters above 10 Gy. Radiation Measurements 171, 107063, http://doi.org/10.1016/j.radmeas.2024.107063

Silva, A.C., Amorim, L.M.F., Cruz, A., Asfora, V.K., de Barros, V.S.M., Oliveira, C.N.P., Guzzo, P.L., Khoury, H.J., 2024. Evaluation of TL and OSL signals of MgB4O7:Tm,Li prepared by the solution combustion method. Radiation Measurements 173, 107099, http://doi.org/10.1016/j.radmeas.2024.107099

Silva, A.O., Amorim, Y.F., Nunes, M.C.S., Ulsen, C., Yoshimura, E.M., Trindade, N.M., 2024. Stimulated luminescence properties of natural alexandrite in response to X-ray irradiation. Journal of Luminescence 269, 120493, http://doi.org/10.1016/j.jlumin.2024.120493

Stepanenko, V., Shinkarev, S., Kaprin, A., Apsalikov, K., Ivanov, S., Shegay, P., Ostroumova, E., Kesminiene, A., Lipikhina, A., Bogacheva, V., Zhumadilov, K., Yamamoto, M., Sakaguchi, A., Endo, S., Fujimoto, N., Grosche, B., Iatsenko, V., Androsova, A., Apsalikova, Z., Kawano, N., Hoshi, M., 2024. Comparison of external dose estimates using different retrospective dosimetry methods in the settlements located near Semipalatinsk Nuclear Test Site, Republic of Kazakhstan. Journal of Radiation Research 65, 36-46, http://doi.org/10.1093/jrr/rrad082

Termsuk, C., Mitrayon, L., Rindhatayathon, P., Saejia, K., Phankhun, S., Pungkun, V., 2024. Results from 2023 interlaboratory comparison in Southeast and East Asia on OSL personal dosimeter performance in photon fields. Radiation Measurements 175, 107181, http://doi.org/10.1016/j.radmeas.2024.107181

Veronese, I., Andersen, C.E., Li, E., Madden, L., Santos, A.M.C., 2024. Radioluminescence-based fibre-optic dosimeters in radiotherapy: a review. Radiation Measurements 174, 107125, http://doi.org/10.1016/j.radmeas.2024.107125

Yanagida, T., Kato, T., Koshimizu, M., Nakauchi, D., Kawaguchi, N., 2024. Optical, scintillation, and TSL properties of Ce-doped LiMgAlF6. Radiation Measurements 174, 107130, http://doi.org/10.1016/j.radmeas.2024.107130

Instruments

de Boer, A.-M., Kook, M., Wallinga, J., 2024. Testing the performance of an EMCCD camera in measuring single-grain feldspar (thermo)luminescence in comparison to a laser-based single-grain system. Radiation Measurements 175, 107168, http://doi.org/10.1016/j.radmeas.2024.107168

Discher, M., Bassinet, C., Kim, H., 2024. On the use of new vs. heated sample carriers for luminescence measurements. Radiation Measurements 174, 107136, http://doi.org/10.1016/j.radmeas.2024.107136

Kim, H., Hwang, J., Lim, K.T., 2024. Quantitative analysis of silicon photomultipliers for thermoluminescence measurement. Radiation Measurements 175, 107172, http://doi.org/10.1016/j.radmeas.2024.107172

Kim, H., Park, C.-Y., Kim, S.I., Kim, M.C., Lee, J., 2024. Development of a prototype TL/OSL reader for on-site use in a large-scale radiological accident. Nuclear Engineering and Technology 56, 2113-2119, http://doi.org/10.1016/j.net.2024.01.019

Tudyka, K., Kłosok, K., Gosek, M., Kolarczyk, A., Miłosz, S., Szymak, A., Pilśniak, A., Moska, P., Poręba, G., 2024. µDOSE+: Environmental radioactivity and dose rate measurement system with active shielding boosted by machine learning. Measurement 234, 114854, http://doi.org/10.1016/j.measurement.2024.114854

Portable instruments

Alexanderson, H., Möller, P., Jain, M., Knudsen, M.F., Larsen, N.K., Perić, Z.M., Søndergaard, A.S., Thompson, W., 2024. Coupled luminescence and cosmogenic nuclide dating of postglacial deflation surfaces and sand drift on a raised ice-contact delta at Veinge, SW Sweden. Quaternary Geochronology 80, 101500, http://doi.org/10.1016/j.quageo.2024.101500

Roman, M., Píšková, A., Sanderson, D.C.W., Cresswell, A.J., Bulínová, M., Pokorný, M., Kavan, J., Jennings, S.J.A., Lirio, J.M., Nedbalová, L., Sacherová, V., Kopalová, K., Glasser, N.F., Nývlt, D., 2024. The Late Holocene deglaciation of James Ross Island, Antarctic Peninsula: OSL and 14C-dated multi-proxy sedimentary record from Monolith Lake. Quaternary Science Reviews 333, 108693, http://doi.org/10.1016/j.quascirev.2024.108693

Stone, A., Bateman, M.D., Sanderson, D., Burrough, S.L., Cutts, R., Cresswell, A., 2024. Probing sediment burial age, provenance and geomorphic processes in dryland dunes and lake shorelines using portable luminescence data. Quaternary Geochronology 82, 101542, http://doi.org/10.1016/j.quageo.2024.101542

Review

Gliganic, L.A., McDonald, J., Meyer, M.C., 2023. Luminescence rock surface exposure and burial dating: a review of an innovative new method and its applications in archaeology. Archaeological and Anthropological Sciences 16, 17, http://doi.org/10.1007/s12520-023-01915-0

McKeever, S.W.S., 2024. An overview of, and prospects for, new luminescent detectors. Radiation Measurements 171, 107062, http://doi.org/10.1016/j.radmeas.2024.107062

Veronese, I., Andersen, C.E., Li, E., Madden, L., Santos, A.M.C., 2024. Radioluminescence-based fibre-optic dosimeters in radiotherapy: a review. Radiation Measurements 174, 107125, http://doi.org/10.1016/j.radmeas.2024.107125

Statistics, simulation, and modelling

Li, B., Jacobs, Z., Sontag-González, M., O'Gorman, K., Roberts, R.G., 2024. A Bayesian hierarchical age model for single-grain optical dating of feldspars. Quaternary Geochronology 81, 101515, http://doi.org/10.1016/j.quageo.2024.101515

Martin, L., Duval, M., Arnold, L.J., 2024. To what extent do field conditions affect gamma dose rate determination using portable gamma spectrometry? Radiation Physics and Chemistry 216, 111365, http://doi.org/10.1016/j.radphyschem.2023.111365

van der Meij, W.M., Temme, A.J.A.M., Binnie, S.A., Reimann, T., 2023. ChronoLorica: introduction of a soil–landscape evolution model combined with geochronometers. Geochronology 5, 241-261, http://doi.org/10.5194/gchron-5-241-2023

Yates, L.A., Aandahl, Z., Brook, B.W., Jacobs, Z., Li, B., David, B., Roberts, R.G., 2024. A new OSL dose model to account for post-depositional mixing of sediments. Quaternary Geochronology 81, 101502, http://doi.org/10.1016/j.quageo.2024.101502

Computer coding

Kreutzer, S., Grehl, S., Höhne, M., Simmank, O., Dornich, K., Adamiec, G., Burow, C., Roberts, H.M., Duller, G.A.T., 2023. XLUM: an open data format for exchange and long-term preservation of luminescence data. Geochronology 5, 271-284, http://doi.org/10.5194/gchron-5-271-2023

Laboratory protocols

Discher, M., Bassinet, C., Kim, H., 2024. On the use of new vs. heated sample carriers for luminescence measurements. Radiation Measurements 174, 107136, http://doi.org/10.1016/j.radmeas.2024.107136

Frouin, M., Grandfield, T., Huebsch, W., Evans, O., 2023. Technical note: Darkroom lighting for luminescence dating laboratory. Geochronology 5, 405-412, http://doi.org/10.5194/gchron-5-405-2023