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Bibliography

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Special issue

- Electron spin resonance (ESR) dating in Quaternary studies: evolution, recent advances and applications, Mathieu Duval, Gilles Rixhon, Lee J. Arnold ed. Quaternary International

Azevedo, R.L., Asfora, V.K., Mützenberg, D.S., Cisneiros, D., Sullasi, H.L., Kinoshita, A.M., Guzzo, P.L., Skinner, A.R., Baffa, O., Pessis, A.-M., Khoury, H.J., 2020. ESR dating of megafauna enamel teeth from Lagoa Uri de Cima Archaeological Site (Pernambuco, Northeastern Brazil). Quaternary International 556, 38-48. http://doi.org/10.1016/j.quaint.2019.02.039

Bahain, J.-J., Duval, M., Voinchet, P., Tissoux, H., Falguères, C., Grün, R., Moreno, D., Shao, Q., Tombret, O., Jamet, G., Faivre, J.-P., Cliquet, D., 2020. ESR and ESR/U-series chronology of the Middle Pleistocene site of Tourville-la-Rivière (Normandy, France) - A multi-laboratory approach. Quaternary International 556, 58-70. http://doi.org/10.1016/j.quaint.2019.06.015

Bartz, M., Duval, M., Brill, D., Zander, A., King, G.E., Rhein, A., Walk, J., Stauch, G., Lehmkuhl, F., Brückner, H., 2020. Testing the potential of K-feldspar pIR-IRSL and quartz ESR for dating coastal alluvial fan complexes in arid environments. Quaternary International 556, 124-143. http://doi.org/10.1016/j.quaint.2020.03.037

Beerten, K., Verbeeck, K., Laloy, E., Vanacker, V., Vandenberghe, D., Christl, M., De Grave, J., Wouters, L., 2020. Electron spin resonance (ESR), optically stimulated luminescence (OSL) and terrestrial cosmogenic radionuclide (TCN) dating of quartz from a Plio-Pleistocene sandy formation in the Campine area, NE Belgium. Quaternary International 556, 144-158. http://doi.org/10.1016/j.quaint.2020.06.011

Ben Arous, E., Falguères, C., Tombret, O., El Hajraoui, M.A., Nespoulet, R., 2020. Combined US-ESR dating of fossil teeth from El Harhoura 2 cave (Morocco): New data about the end of the MSA in Temara region. Quaternary International 556, 88-95. http://doi.org/10.1016/j.quaint.2019.02.029

Demuro, M., Arnold, L.J., Duval, M., Méndez-Quintas, E., Santonja, M., Pérez-González, A., 2020a. Refining the chronology of Acheulean deposits at Porto Maior in the River Miño basin (Galicia, Spain) using a comparative luminescence and ESR dating approach. Quaternary International 556, 96-112. http://doi.org/10.1016/j.quaint.2020.01.005

Demuro, M., Duval, M., Arnold, L.J., Spooner, N.A., Creighton, D.F., Méndez-Quintas, E., Santonja, M., Pérez-González, A., 2020b. Insights into the relationship between luminescence and ESR dating signals from Spanish sedimentary quartz samples of different geologic origins. Quaternary International 556, 165-179. http://doi.org/10.1016/j.quaint.2020.05.037

Duval, M., Arnold, L.J., Rixhon, G., 2020a. Electron spin resonance (ESR) dating in Quaternary studies: evolution, recent advances and applications. Quaternary International 556, 1-10. http://doi.org/10.1016/j.quaint.2020.07.044

Duval, M., Voinchet, P., Arnold, L.J., Parés, J.M., Minnella, W., Guilarte, V., Demuro, M., Falguères, C., Bahain, J.-J., Despriée, J., 2020b. A multi-technique dating study of two Lower Palaeolithic sites from the Cher Valley (Middle Loire Catchment, France): Lunery-la Terre-des-Sablons and Brinay-la Noira. Quaternary International 556, 71-87. http://doi.org/10.1016/j.quaint.2020.05.033

Falguères, C., 2020. A French story of the ESR dating method for Quaternary samples. Quaternary International 556, 11-19. http://doi.org/10.1016/j.quaint.2019.09.047

Grün, R., 2020. A very personal, 35 years long journey in ESR dating. Quaternary International 556, 20-37. http://doi.org/10.1016/j.quaint.2018.11.038

Molodkov, A., 2020. The Late Pleistocene palaeoenvironmental evolution in Northern Eurasia through the prism of the mollusc shell-based ESR dating evidence. Quaternary International 556, 180-197. http://doi.org/10.1016/j.quaint.2019.05.031

Richard, M., Falguères, C., Pons-Branchu, E., Richter, D., Beutelspacher, T., Conard, N.J., Kind, C.J., 2020. The Middle to Upper Palaeolithic transition in Hohlenstein-Stadel cave (Swabian Jura, Germany): A comparison between ESR, U-series and radiocarbon dating. Quaternary International 556, 49-57. http://doi.org/10.1016/j.quaint.2019.04.009

Richter, M., Tsukamoto, S., Long, H., 2020. ESR dating of Chinese loess using the quartz Ti centre: A comparison with independent age control. Quaternary International 556, 159-164. http://doi.org/10.1016/j.quaint.2019.04.003

Schellmann, G., Schielein, P., Burow, C., Radtke, U., 2020. Accuracy of ESR dating of small gastropods from loess and fluvial deposits in the Bavarian Alpine Foreland. Quaternary International 556, 198-215. http://doi.org/10.1016/j.quaint.2019.07.026

Schielein, P., Burow, C., Pajon, J., Rojas Consuegra, R., Zhao, J.-x., Schellmann, G., 2020. ESR and U-Th dating results for Last Interglacial coral reef terraces at the northern coast of Cuba. Quaternary International 556, 216-229. http://doi.org/10.1016/j.quaint.2019.11.041

Voinchet, P., Pereira, A., Nomade, S., Falguères, C., Biddittu, I., Piperno, M., Moncel, M.H., Bahain, J.J., 2020. ESR dating applied to optically bleached quartz - A comparison with 40Ar/39Ar chronologies on Italian Middle Pleistocene sequences. Quaternary International 556, 113-123. http://doi.org/10.1016/j.quaint.2020.03.012

Various geological applications

- aeolian

Bertran, P., Andrieux, E., Bateman, M.D., Fuchs, M., Klinge, M., Marembert, F., 2020. Mapping and chronology of coversands and dunes from the Aquitaine basin, southwest France. Aeolian Research 47, 100628. http://doi.org/10.1016/j.aeolia.2020.100628

Fitzsimmons, K.E., Nowatzki, M., Dave, A.K., Harder, H., 2020. Corrigendum to "Intersections between wind regimes, topography and sediment supply: Perspectives from aeolian landforms in Central Asia". Palaeogeography, Palaeoclimatology, Palaeoecology 540 (2020) 109531. Palaeogeography, Palaeoclimatology, Palaeoecology 552, 109795. http://doi.org/10.1016/j.palaeo.2020.109795

Follett, R.F., Stewart, C.E., Bradford, J., Pruessner, E.G., Sims, P.L., Vigil, M.F., 2020. Long-term pasture management impacts on eolian sand soils in the southern mixed-grass prairie. Quaternary International 565, 84-93. http://doi.org/10.1016/j.quaint.2020.07.019

Ji, J., Wang, G., Yang, L., Li, J., Xu, Y., Liu, Z., 2020. Holocene climate in arid central Asia and timing of sand dunes accumulation in Balikun Basin, Northwest China. Geological Journal 55, 7346-7358. http://doi.org/10.1002/gj.3655

Kaiser, K., Schneider, T., Küster, M., Dietze, E., Fülling, A., Heinrich, S., Kappler, C., Nelle, O., Schult, M., Theuerkauf, M., Vogel, S., de Boer, A.M., Börner, A., Preusser, F., Schwabe, M., Ulrich, J., Wirner, M., Bens, O., 2020. Palaeosols and their cover sediments of a glacial landscape in northern central Europe: Spatial distribution, pedostratigraphy and evidence on landscape evolution. CATENA 193, 104647. http://doi.org/10.1016/j.catena.2020.104647

Sizov, O., Konstantinov, A., Volvakh, A., Molodkov, A., 2020. Timing and Sedimentary Record of Late Quaternary Fluvio-Aeolian Successions of the Tura-Pyshma Interfluve (SW Western Siberia, Russia). Geosciences 10, 396. http://doi.org/10.3390/geosciences10100396

Xue, W., Jin, H., Liu, B., Sun, L., Liu, Z., 2020. History of moisture change indicated by aeolian deposit in the Horqin sandy land, Northeastern China since the Last Glacial Maximum. Quaternary International 547, 50-62. http://doi.org/10.1016/j.quaint.2019.12.022

- cave

Ballesteros, D., Álvarez-Vena, A., Monod-Del Dago, M., Rodríguez-Rodríguez, L., Sanjurjo-Sánchez, J., Álvarez-Lao, D., Pérez-Mejías, C., Valenzuela, P., DeFelipe, I., Laplana, C., Cheng, H., Jiménez-Sánchez, M., 2020. Paleoenvironmental evolution of Picos de Europa (Spain) during marine isotopic stages 5c to 3 combining glacial reconstruction, cave sedimentology and paleontological findings. Quaternary Science Reviews 248, 106581. http://doi.org/10.1016/j.quascirev.2020.106581

De Waele, J., Picotti, V., Martina, M.L.V., Brook, G., Yang, L., Forti, P., 2020. Holocene evolution of halite caves in the Cordillera de la Sal (Central Atacama, Chile) in different climate conditions. Geomorphology 370, 107398. http://doi.org/10.1016/j.geomorph.2020.107398

Utida, G., Cruz, F.W., Santos, R.V., Sawakuchi, A.O., Wang, H., Pessenda, L.C.R., Novello, V.F., Vuille, M., Strauss, A.M., Borella, A.C., Stríkis, N.M., Guedes, C.C.F., Dias De Andrade, F.R., Zhang, H., Cheng, H., Edwards, R.L., 2020. Climate changes in Northeastern Brazil from deglacial to Meghalayan periods and related environmental impacts. Quaternary Science Reviews 250, 106655. http://doi.org/10.1016/j.quascirev.2020.106655

- coastal

Bartz, M., Duval, M., Brill, D., Zander, A., King, G.E., Rhein, A., Walk, J., Stauch, G., Lehmkuhl, F., Brückner, H., 2020. Testing the potential of K-feldspar pIR-IRSL and quartz ESR for dating coastal alluvial fan complexes in arid environments. Quaternary International 556, 124-143. http://doi.org/10.1016/j.quaint.2020.03.037

Bateman, M.D., McHale, K., Bayntun, H.J., Williams, N., 2020. Understanding historical coastal spit evolution: A case study from Spurn, East Yorkshire, UK. Earth Surface Processes and Landforms 45, 3670-3686. http://doi.org/10.1002/esp.4991

Betancurth, L., Preusser, F., Mueller, D., Rambeau, C., Cañón, J., 2020. First luminescence chronology of late Holocene deposits of the tropical Atrato Delta, Colombia. Journal of South American Earth Sciences 104, 102813. http://doi.org/10.1016/j.jsames.2020.102813

Castillo, M., Muñoz-Salinas, E., Sanderson, D.C.W., Cresswell, A., 2020. Landscape evolution of Punta Arena sand spit (SE Baja California Peninsula, NW Mexico): Implications of ENSO on landscape erosion rates. CATENA 193, 104601. http://doi.org/10.1016/j.catena.2020.104601

Gao, L., Long, H., Tamura, T., Ye, L., Hou, Y., Shen, J., 2020. Refined chronostratigraphy of a late Quaternary Sedimentary sequence from the Yangtze River delta based on K-feldspar luminescence dating. Marine Geology 427, 106271. http://doi.org/10.1016/j.margeo.2020.106271

Gouramanis, C., Switzer, A.D., Bristow, C.S., Pham, D.T., Mauz, B., Hoang, Q.D., Lam, D.D., Lee, Y.S., Soria, J.L.A., Pile, J., Chi, N.T.K., Nghiem, D., Sloss, C., 2020. Holocene evolution of the Chan May coastal embayment, central Vietnam: Changing coastal dynamics associated with decreasing rates of progradation possibly forced by mid- to late-Holocene sea-level changes. Geomorphology 367, 107273. http://doi.org/10.1016/j.geomorph.2020.107273

Kennedy, D.M., Oliver, T.S.N., Tamura, T., Murray-Wallace, C.V., Thom, B.G., Rosengren, N.J., Ierodiaconou, D., Augustinus, P., Leach, C., Gao, J., McSweeney, S.L., Konlechner, T., Woodroffe, C.D., 2020. Holocene evolution of the Ninety Mile Beach sand barrier, Victoria, Australia: The role of sea level, sediment supply and climate. Marine Geology 430, 106366. http://doi.org/10.1016/j.margeo.2020.106366

Marra, F., Bahain, J.-J., Jicha, B.R., Nomade, S., Palladino, D.M., Pereira, A., Tolomei, C., Voinchet, P., Anzidei, M., Aureli, D., Ceruleo, P., Falguères, C., Florindo, F., Gatta, M., Ghaleb, B., La Rosa, M., Peretto, C., Petronio, C., Rocca, R., Rolfo, M.F., Salari, L., Smedile, A., Tombret, O., 2019. Reconstruction of the MIS 5.5, 5.3 and 5.1 coastal terraces in Latium (central Italy): A re-evaluation of the sea-level history in the Mediterranean Sea during the last interglacial. Quaternary International 525, 54-77. http://doi.org/10.1016/j.quaint.2019.09.001

Molodkov, A., 2020. The Late Pleistocene palaeoenvironmental evolution in Northern Eurasia through the prism of the mollusc shell-based ESR dating evidence. Quaternary International 556, 180-197. http://doi.org/10.1016/j.quaint.2019.05.031

Nalin, R., Lamothe, M., Auclair, M., Massari, F., 2020. Chronology of the marine terraces of the Crotone Peninsula (Calabria, southern Italy) by means of infrared-stimulated luminescence (IRSL). Marine and Petroleum Geology 122, 104645. http://doi.org/10.1016/j.marpetgeo.2020.104645

Normand, R., Simpson, G., Herman, F., Biswas, R.H., Bahroudi, A., 2019. Holocene sedimentary record and coastal evolution in the Makran Subduction Zone (Iran). Quaternary 2, 21. http://doi.org/10.3390/quat2020021

Oliver, T.S.N., Tamura, T., Brooke, B.P., Short, A.D., Kinsela, M.A., Woodroffe, C.D., Thom, B.G., 2020. Holocene evolution of the wave-dominated embayed Moruya coastline, southeastern Australia: Sediment sources, transport rates and alongshore interconnectivity. Quaternary Science Reviews 247, 106566. http://doi.org/10.1016/j.quascirev.2020.106566

Parker, A.G., Morley, M.W., Armitage, S.J., Engel, M., Parton, A., Preston, G.W., Russ, H., Drechsler, P., 2020. Palaeoenvironmental and sea level changes during the Holocene in eastern Saudi Arabia and their implications for Neolithic populations. Quaternary Science Reviews 249, 106618. http://doi.org/10.1016/j.quascirev.2020.106618

Rodrigues, F.C.G., Giannini, P.C.F., Fornari, M., Sawakuchi, A.O., 2020. Deglacial climate and relative sea level changes forced the shift from eolian sandsheets to dunefields in southern Brazilian coast. Geomorphology 365, 107252. http://doi.org/10.1016/j.geomorph.2020.107252

Rosentau, A., Nirgi, T., Muru, M., Bjursäter, S., Hang, T., Preusser, F., Risberg, J., Sohar, K., Tõnisson, H., Kriiska, A., 2020. Holocene relative shore level changes and Stone Age hunter-gatherers in Hiiumaa Island, eastern Baltic Sea. Boreas 49, 783-798. http://doi.org/10.1111/bor.12452

Sanderson, D.C.W., Kinnaird, T.C., 2019. Optically stimulated luminescence dating as a geochronological tool for Late Quaternary sediments in the Red Sea region, in: Rasul, N.M.A., Stewart, I.C.F. (Eds.), Geological Setting, Palaeoenvironment and Archaeology of the Red Sea. Springer International Publishing, Cham, pp. 685-707. http://doi.org/10.1007/978-3-319-99408-6_31

Schielein, P., Burow, C., Pajon, J., Rojas Consuegra, R., Zhao, J.-x., Schellmann, G., 2020. ESR and U-Th dating results for Last Interglacial coral reef terraces at the northern coast of Cuba. Quaternary International 556, 216-229. http://doi.org/10.1016/j.quaint.2019.11.041

Tamura, T., Ta, T.K.O., Saito, Y., Bateman, M.D., Murray-Wallace, C.V., Nguyen, T.M.L., Sato, T., Nguyen, V.L., 2020. Seasonal control on coastal dune morphostratigraphy under a monsoon climate, Mui Ne dunefield, SE Vietnam. Geomorphology 370, 107371. http://doi.org/10.1016/j.geomorph.2020.107371

Zurbuchen, J., Simms, A.R., Huot, S., 2020. Episodic coastal progradation of the Oxnard Plain, Southern California, USA. Journal of Coastal Research 36, 1130-1144. http://doi.org/10.2112/JCOASTRES-D-19-00125.1

- colluvial

Colarossi, D., Duller, G.A.T., Roberts, H.M., Tooth, S., Botha, G.A., 2020. A comparison of multiple luminescence chronometers at Voordrag, South Africa. Quaternary Geochronology 60, 101094. http://doi.org/10.1016/j.quageo.2020.101094

Fonsêca, D.N., de Barros Corrêa, A.C., de Azevêdo Cavalcanti Tavares, B., Rodrigues de Lira, D., Magalhães de Barros, A.C., da Silva Mützenberg, D., 2020. Coupling of tectonic factors and precipitation variability as a driver of Late Quaternary aggradation in Northeast Brazil. Earth Surface Processes and Landforms 45, 3525-3539. http://doi.org/10.1002/esp.4982

Kaiser, K., Schneider, T., Küster, M., Dietze, E., Fülling, A., Heinrich, S., Kappler, C., Nelle, O., Schult, M., Theuerkauf, M., Vogel, S., de Boer, A.M., Börner, A., Preusser, F., Schwabe, M., Ulrich, J., Wirner, M., Bens, O., 2020. Palaeosols and their cover sediments of a glacial landscape in northern central Europe: Spatial distribution, pedostratigraphy and evidence on landscape evolution. CATENA 193, 104647. http://doi.org/10.1016/j.catena.2020.104647

- earthquake (and fault related)

Beerten, K., Verbeeck, K., Laloy, E., Vanacker, V., Vandenberghe, D., Christl, M., De Grave, J., Wouters, L., 2020. Electron spin resonance (ESR), optically stimulated luminescence (OSL) and terrestrial cosmogenic radionuclide (TCN) dating of quartz from a Plio-Pleistocene sandy formation in the Campine area, NE Belgium. Quaternary International 556, 144-158. http://doi.org/10.1016/j.quaint.2020.06.011

Cheon, Y., Choi, J.-H., Kim, N., Lee, H., Choi, I., Bae, H., Rockwell, T.K., Lee, S.R., Ryoo, C.-R., Choi, H., Lee, T.-H., 2020. Late Quaternary transpressional earthquakes on a long-lived intraplate fault: A case study of the Southern Yangsan Fault, SE Korea. Quaternary International 553, 132-143. http://doi.org/10.1016/j.quaint.2020.07.025

Divyadarshini, A., Singh, V., Jaiswal, M.K., Rawat, M., 2020. Exploring the roles of climate and tectonics in the geomorphic evolution of the Chitwan Intermontane valley, Central Himalaya. Geomorphology 367, 107298. http://doi.org/10.1016/j.geomorph.2020.107298

Oohashi, K., Minomo, Y., Akasegawa, K., Hasebe, N., Miura, K., 2020. Optically stimulated luminescence signal resetting of quartz gouge during subseismic to seismic frictional sliding: A case study using granite-derived quartz. Journal of Geophysical Research: Solid Earth 125, e2020JB019900. http://doi.org/10.1029/2020JB019900

Tokarski, A.K., Świerczewska, A., Lasocki, S., Cuong, N.Q., Strzelecki, P.J., Olszak, J., Kukulak, J., Alexanderson, H., Zasadni, J., Krąpiec, M., Mikołajczak, M., 2020. Active faulting and seismic hazard in the Outer Western Carpathians (Polish Galicia): Evidence from fractured Quaternary gravels. Journal of Structural Geology 141, 104210. http://doi.org/10.1016/j.jsg.2020.104210

Torabi, M., Fattahi, M., Amini, H., Ghassemi, M.R., Karimi, N., 2020. OSL dating of landslide-dammed-lake deposits in the North of Tehran, Iran: 958 Ray-Taleghan/Ruyan earthquake. Quaternary International 562, 46-57. http://doi.org/10.1016/j.quaint.2020.07.006

Trexler, C.C., Cowgill, E., Spencer, J.Q.G., Godoladze, T., 2020. Rate of active shortening across the southern thrust front of the Greater Caucasus in western Georgia from kinematic modeling of folded river terraces above a listric thrust. Earth and Planetary Science Letters 544, 116362. http://doi.org/10.1016/j.epsl.2020.116362

Tsakalos, E., Lin, A., Kazantzaki, M., Bassiakos, Y., Nishiwaki, T., Filippaki, E., 2020. Absolute dating of past seismic events using the OSL technique on fault gouge material—a case study of the Nojima Fault Zone, SW Japan. Journal of Geophysical Research: Solid Earth 125, e2019JB019257. http://doi.org/10.1029/2019JB019257

- fluvial

Agatova, A.R., Nepop, R.K., Bronnikova, M.A., Zhdanova, A.N., Moska, P., Zazovskaya, E.P., Khazina, I.V., 2020. Problems of 14C dating in fossil soils within tectonically active highlands of Russian Altai in the chronological context of the late Pleistocene megafloods. CATENA 195, 104764. http://doi.org/10.1016/j.catena.2020.104764

Bahain, J.-J., Duval, M., Voinchet, P., Tissoux, H., Falguères, C., Grün, R., Moreno, D., Shao, Q., Tombret, O., Jamet, G., Faivre, J.-P., Cliquet, D., 2020. ESR and ESR/U-series chronology of the Middle Pleistocene site of Tourville-la-Rivière (Normandy, France) - A multi-laboratory approach. Quaternary International 556, 58-70. http://doi.org/10.1016/j.quaint.2019.06.015

Benito-Calvo, A., Arnold, L.J., Mora, R., Martínez-Moreno, J., Demuro, M., 2020. Reconstructing Mousterian landscapes in the southeastern Pyrenees (Roca dels Bous site, Pre-Pyrenees ranges, Spain). Quaternary Research 97, 167-186. http://doi.org/10.1017/qua.2020.29

Blinkhorn, J., Achyuthan, H., Jaiswal, M., Singh, A.K., 2020. The first dated evidence for Middle-Late Pleistocene fluvial activity in the central Thar Desert. Quaternary Science Reviews 250, 106656. http://doi.org/10.1016/j.quascirev.2020.106656

Bonnet, S., Reimann, T., Wallinga, J., Lague, D., Davy, P., Lacoste, A., 2019. Landscape dynamics revealed by luminescence signals of feldspars from fluvial terraces. Scientific Reports 9, 8569. http://doi.org/10.1038/s41598-019-44533-4

Borgohain, B., Mathew, G., Chauhan, N., Jain, V., Singhvi, A.K., 2020. Evidence of episodically accelerated denudation on the Tibetan Namche Barwa massif by megafloods. Quaternary Science Reviews 245, 106410. http://doi.org/10.1016/j.quascirev.2020.106410

Dash, C., Jaiswal, M.K., Pati, P., Patel, N.K., Singh, A.K., Shah, R.A., 2020. Fluvial response to Late Quaternary sea level changes along the Mahanadi delta, east coast of India. Quaternary International 553, 60-72. http://doi.org/10.1016/j.quaint.2020.07.033

Gao, L., Wang, X., Yi, S., Vandenberghe, J., Gibling, M.R., Lu, H., 2018. Episodic sedimentary evolution of an alluvial fan (Huangshui catchment, NE Tibetan Plateau). Quaternary 1, 16. http://doi.org/10.3390/quat1020016

Kapannusch, R., Scherler, D., King, G., Wittmann, H., 2020. Glacial influence on late Pleistocene 10Be-derived paleo-erosion rates in the north-western Himalaya, India. Earth and Planetary Science Letters 547, 116441. http://doi.org/10.1016/j.epsl.2020.116441

Larkin, Z.T., Ralph, T.J., Tooth, S., Duller, G.A.T., 2020. A shifting 'river of sand': The profound response of Australia's Warrego River to Holocene hydroclimatic change. Geomorphology 370, 107385. http://doi.org/10.1016/j.geomorph.2020.107385

Mitrinović, D., Zarić, J., Anđelković, O., Sipos, G., Polomčić, D., Dimkić, M., 2020. Dating of alluvial sediments from borehole at the lower course of the Sava river and indications of the connection between their genesis and climate changes in the Pleistocene. Quaternary International 547, 75-85. http://doi.org/10.1016/j.quaint.2019.09.028

Olszak, J., Alexanderson, H., 2020. Post-IR IRSL dating the oldest (?) river terrace sediments in the Polish Outer Carpathians: Insights into the landscape evolution. Geomorphology 371, 107436. http://doi.org/10.1016/j.geomorph.2020.107436

Panda, S., Kumar, A., Das, S., Devrani, R., Rai, S., Prakash, K., Srivastava, P., 2020. Chronology and sediment provenance of extreme floods of Siang River (Tsangpo-Brahmaputra River valley), northeast Himalaya. Earth Surface Processes and Landforms 45, 2495-2511. http://doi.org/10.1002/esp.4893

Quik, C., Candel, J.H.J., Makaske, B., van Beek, R., Paulissen, M., Maas, G.J., Verplak, M., Spek, T., Wallinga, J., 2020. Anthropogenic drivers for exceptionally large meander formation during the Late Holocene. Anthropocene 32, 100263. http://doi.org/10.1016/j.ancene.2020.100263

Saynor, M., Wasson, R., Erskine, W., Lam, D., 2020. Holocene palaeohydrology of the East Alligator River, for application to mine site rehabilitation, Northern Australia. Quaternary Science Reviews 249, 106552. http://doi.org/10.1016/j.quascirev.2020.106552

Schellmann, G., Schielein, P., Burow, C., Radtke, U., 2020. Accuracy of ESR dating of small gastropods from loess and fluvial deposits in the Bavarian Alpine Foreland. Quaternary International 556, 198-215. http://doi.org/10.1016/j.quaint.2019.07.026

Sizov, O., Konstantinov, A., Volvakh, A., Molodkov, A., 2020. Timing and Sedimentary Record of Late Quaternary Fluvio-Aeolian Successions of the Tura-Pyshma Interfluve (SW Western Siberia, Russia). Geosciences 10, 396. http://doi.org/10.3390/geosciences10100396

Stange, K.M., Midtkandal, I., Nystuen, J.P., Murray, A., Sohbati, R., Thompson, W., Spiegel, C., Kuss, H.-J., 2019. Erosive response of non-glaciated Pyrenean headwater catchments to the last major climate transition and establishing interglacial conditions. Quaternary 2, 17. http://doi.org/10.3390/quat2020017

Vayssière, A., Castanet, C., Gautier, E., Virmoux, C., Dépret, T., Gandouin, E., Develle, A.-L., Mokadem, F., Saulnier-Copard, S., Sabatier, P., Carcaud, N., 2020. Readjustments of a sinuous river during the last 6000 years in northwestern Europe (Cher River, France): from an active meandering river to a stable river course under human forcing. Geomorphology 370, 107395. http://doi.org/10.1016/j.geomorph.2020.107395

Veldkamp, A., Schoorl, J.M., Claessens, L., Temme, A.J.A.M., Broers, A.G.M., van Orsouw, T.L., Voesten, M.T.C.M., Reimann, T., 2020. Preservation of the last aggradation phase in climate-driven terraces: Evidence from Late Quaternary reach-specific fluvial dynamics of the Allier River (France). Earth Surface Processes and Landforms 45, 3381-3395. http://doi.org/10.1002/esp.4972

Viveen, W., Baby, P., Sanjurjo-Sanchez, J., Hurtado-Enríquez, C., 2020. Fluvial terraces as quantitative markers of late Quaternary detachment folding and creeping thrust faulting in the Peruvian Huallaga basin. Geomorphology 367, 107315. http://doi.org/10.1016/j.geomorph.2020.107315

Voinchet, P., Pereira, A., Nomade, S., Falguères, C., Biddittu, I., Piperno, M., Moncel, M.H., Bahain, J.J., 2020. ESR dating applied to optically bleached quartz - A comparison with 40Ar/39Ar chronologies on Italian Middle Pleistocene sequences. Quaternary International 556, 113-123. http://doi.org/10.1016/j.quaint.2020.03.012

Wang, H., Tong, K., Hu, G., Wang, P., Li, D., Huang, J., Cao, G., Zhang, J., Chen, J., 2021. Dam and megafloods at the First Bend of the Yangtze River since the Last Glacial Maximum. Geomorphology 373, 107491. http://doi.org/10.1016/j.geomorph.2020.107491

Wu, C., Li, J., Zuza, A.V., Liu, C., Liu, W., Chen, X., Jiang, T., Li, B., 2020. Cenozoic cooling history and fluvial terrace development of the western domain of the Eastern Kunlun Range, northern Tibet. Palaeogeography, Palaeoclimatology, Palaeoecology 560, 109971. http://doi.org/10.1016/j.palaeo.2020.109971

Zhang, D., Wang, G., Pullen, A., Abell, J.T., Ji, J., Shen, T., 2020. Landscape evolution and development of eolian-modified unconsolidated gravel surfaces and yardangs in the Hami Basin, China. Geomorphology 368, 107355. http://doi.org/10.1016/j.geomorph.2020.107355

- glacial and periglacial

Gao, C., Huot, S., McDonald, A.M., Crabtree, D.C., Turton, C.L., 2020. Subtill nonglacial deposits and their climatic implications for the Last Interglacial (MIS 5e), Hudson Bay Lowlands, Canada. Quaternary Science Reviews 248, 106590. http://doi.org/10.1016/j.quascirev.2020.106590

Hu, G., Yi, C.-L., Liu, J.-H., Wang, P., Zhang, J.-F., Li, S.-H., Li, D., Huang, J., Wang, H.-y., Zhang, A.-m., Shi, L., Shui, X., 2020. Glacial advances and stability of the moraine dam on Mount Namcha Barwa since the Last Glacial Maximum, eastern Himalayan syntaxis. Geomorphology 365, 107246. http://doi.org/10.1016/j.geomorph.2020.107246

Kumar, V., Shukla, T., Mishra, A., Kumar, A., Mehta, M., 2020. Chronology and climate sensitivity of the post-LGM glaciation in the Dunagiri valley, Dhauliganga basin, Central Himalaya, India. Boreas 49, 594-614. http://doi.org/10.1111/bor.12440

Möller, P., Alexanderson, H., Anjar, J., Björck, S., 2020. MIS 3 sediment stratigraphy in southern Sweden sheds new light on the complex glacial history and dynamics across southern Scandinavia. Boreas 49, 389-416. http://doi.org/10.1111/bor.12433

Mueller, D., Preusser, F., Buechi, M.W., Gegg, L., Deplazes, G., 2020. Luminescence properties and dating of glacial to periglacial sediments from northern Switzerland. Geochronology 2, 305-323. http://doi.org/10.5194/gchron-2-305-2020

Muñoz-Salinas, E., Castillo, M., Franco-Ramos, O., Arce, J.L., Sanderson, D.C.W., Cresswell, A.C., 2020. Assessing paraglacial processes at Nexpayantla Gorge (Popocatépetl volcano, Central Mexico) using OSL and 14C. Earth Surface Processes and Landforms 45, 2450-2462. http://doi.org/10.1002/esp.4890

Obst, K., Ansorge, J., Thiel, C., Frenzel, P., 2020. The Late Saalian Cyprina clay of northeastern Germany and the following Weichselian sedimentation and deformation history – Review and new data. Boreas 49, 488-513. http://doi.org/10.1111/bor.12439

Roberts, D.H., Ó Cofaigh, C., Ballantyne, C.K., Burke, M., Chiverrell, R.C., Evans, D.J.A., Clark, C.D., Duller, G.A.T., Ely, J., Fabel, D., Small, D., Smedley, R.K., Callard, S.L., 2020. The deglaciation of the western sector of the Irish Ice Sheet from the inner continental shelf to its terrestrial margin. Boreas 49, 438-460. http://doi.org/10.1111/bor.12448

Saha, S., Owen, L.A., Orr, E.N., Caffee, M.W., 2020. A statistical and numerical modeling approach for spatiotemporal reconstruction of glaciations in the Central Asian mountains. MethodsX 7, 100820. http://doi.org/10.1016/j.mex.2020.100820

Sizov, O., Volvakh, A., Molodkov, A., Vishnevskiy, A., Soromotin, A., Abakumov, E., 2020. Lithological and geomorphological indicators of glacial genesis in the upper Quaternary strata, Nadym River basin, Western Siberia. Solid Earth 11, 2047-2074. http://doi.org/10.5194/se-11-2047-2020

Wolfe, S., Murton, J., Bateman, M., Barlow, J., 2020. Oriented-lake development in the context of late Quaternary landscape evolution, McKinley Bay Coastal Plain, western Arctic Canada. Quaternary Science Reviews 242, 106414. http://doi.org/10.1016/j.quascirev.2020.106414

- lacustrine

Abu-Jaber, N., Al Khasawneh, S., Alqudah, M., Hamarneh, C., Al-Rawabdeh, A., Murray, A., 2020. Lake Elji and a geological perspective on the evolution of Petra, Jordan. Palaeogeography, Palaeoclimatology, Palaeoecology 557, 109904. http://doi.org/10.1016/j.palaeo.2020.109904

Chen, C., Tao, S., Zhao, W., Jin, M., Wang, Z., Li, H., Ren, H., Li, G., 2021. Holocene lake level, vegetation, and climate at the East Asian summer monsoon margin: A record from the Lake Wulanhushao basin, southern Inner Mongolia. Palaeogeography, Palaeoclimatology, Palaeoecology 561, 110051. http://doi.org/10.1016/j.palaeo.2020.110051

Chen, F., Feng, J.-L., Hu, H.-P., Wang, P., 2020. Mid-Holocene palaeohydrochemistry and palaeohydrology of Yamdrok Yumtso, southern Tibetan Plateau, reconstructed from δ18O and δ13C of fossil shells of the gastropod Radix auricularia. The Holocene 30, 1741-1751. http://doi.org/10.1177/0959683620950426

Jonell, T.N., Aitchison, J.C., Li, G., Shulmeister, J., Zhou, R., Zhang, H., 2020. Revisiting growth and decline of late Quaternary mega-lakes across the south-central Tibetan Plateau. Quaternary Science Reviews 248, 106475. http://doi.org/10.1016/j.quascirev.2020.106475

Kaiser, K., Schneider, T., Küster, M., Dietze, E., Fülling, A., Heinrich, S., Kappler, C., Nelle, O., Schult, M., Theuerkauf, M., Vogel, S., de Boer, A.M., Börner, A., Preusser, F., Schwabe, M., Ulrich, J., Wirner, M., Bens, O., 2020. Palaeosols and their cover sediments of a glacial landscape in northern central Europe: Spatial distribution, pedostratigraphy and evidence on landscape evolution. CATENA 193, 104647. http://doi.org/10.1016/j.catena.2020.104647

Ling, Z., Yang, X., Wang, Y., Wang, Y., Jin, J., Zhang, D., Chen, F., 2020. OSL chronology of the Liena archeological site in the Yarlung Tsangpo valley throws new light on human occupation of the Tibetan Plateau. The Holocene 30, 1043-1052. http://doi.org/10.1177/0959683620908643

Liu, X., Hu, J., Shi, W., Chen, H., Liang, X., Li, M., 2020. Stratigraphy and its environmental implications of the Late Pleistocene Shuidonggou Formation in the western Ordos Block, North China. Geological Journal 55, 7359-7370. http://doi.org/10.1002/gj.3972

Munroe, J.S., Walcott, C.K., Amidon, W.H., Landis, J.D., 2020. A top-to-bottom luminescence-based chronology for the post-LGM regression of a great basin pluvial lake. Quaternary 3, 11. http://doi.org/10.3390/quat3020011

Shukla, T., Mehta, M., Dobhal, D.P., Bohra, A., Pratap, B., Kumar, A., 2020. Late-Holocene climate response and glacial fluctuations revealed by the sediment record of the monsoon-dominated Chorabari Lake, Central Himalaya. The Holocene 30, 953-965. http://doi.org/10.1177/0959683620908654

Torabi, M., Fattahi, M., Amini, H., Ghassemi, M.R., Karimi, N., 2020. OSL dating of landslide-dammed-lake deposits in the North of Tehran, Iran: 958 Ray-Taleghan/Ruyan earthquake. Quaternary International 562, 46-57. http://doi.org/10.1016/j.quaint.2020.07.006

Vyse, S.A., Herzschuh, U., Andreev, A.A., Pestryakova, L.A., Diekmann, B., Armitage, S.J., Biskaborn, B.K., 2020. Geochemical and sedimentological responses of arctic glacial Lake Ilirney, chukotka (far east Russia) to palaeoenvironmental change since ~51.8 ka BP. Quaternary Science Reviews 247, 106607. http://doi.org/10.1016/j.quascirev.2020.106607

Yuxin, F., Zhenjun, L., Guangliang, Y., Shuangwen, Y., Qingsong, Z., Wenhao, L., Xuesong, M., 2020. Sedimentary evidence and luminescence and ESR dating of Early Pleistocene high lake levels of Megalake Tengger, northwestern China. Journal of Quaternary Science 35, 994-1006. http://doi.org/10.1002/jqs.3246

- loess

Avram, A., Constantin, D., Veres, D., Kelemen, S., Obreht, I., Hambach, U., Marković, S.B., Timar-Gabor, A., 2020. Testing polymineral post-IR IRSL and quartz SAR-OSL protocols on Middle to Late Pleistocene loess at Batajnica, Serbia. Boreas 49, 615-633. http://doi.org/10.1111/bor.12442

Balescu, S., Jordanova, D., Forget Brisson, L., Hardy, F., Huot, S., Lamothe, M., 2020. Luminescence chronology of the northeastern Bulgarian loess-paleosol sequences (Viatovo and Kaolinovo). Quaternary International 552, 15-24. http://doi.org/10.1016/j.quaint.2019.04.020

Bosq, M., Kreutzer, S., Bertran, P., Degeai, J.-P., Dugas, P., Kadereit, A., Lanos, P., Moine, O., Pfaffner, N., Queffelec, A., Sauer, D., 2020. Chronostratigraphy of two Late Pleistocene loess-palaeosol sequences in the Rhône Valley (southeast France). Quaternary Science Reviews 245, 106473. http://doi.org/10.1016/j.quascirev.2020.106473

Duan, F., An, C., Wang, W., Herzschuh, U., Zhang, M., Zhang, H., Liu, Y., Zhao, Y., Li, G., 2020. Dating of a late Quaternary loess section from the northern slope of the Tianshan Mountains (Xinjiang, China) and its paleoenvironmental significance. Quaternary International 544, 104-112. http://doi.org/10.1016/j.quaint.2020.02.034

Fenn, K., Durcan, J.A., Thomas, D.S.G., Millar, I.L., Marković, S.B., 2020. Re-analysis of late Quaternary dust mass accumulation rates in Serbia using new luminescence chronology for loess–palaeosol sequence at Surduk. Boreas 49, 634-652. http://doi.org/10.1111/bor.12445

Fischer, P., Jöris, O., Fitzsimmons, K.E., Vinnepand, M., Prud'homme, C., Schulte, P., Hatté, C., Hambach, U., Lindauer, S., Zeeden, C., Peric, Z., Lehmkuhl, F., Wunderlich, T., Wilken, D., Schirmer, W., Vött, A., 2021. Millennial-scale terrestrial ecosystem responses to Upper Pleistocene climatic changes: 4D-reconstruction of the Schwalbenberg Loess-Palaeosol-Sequence (Middle Rhine Valley, Germany). CATENA 196, 104913. http://doi.org/10.1016/j.catena.2020.104913

Fitzsimmons, K.E., Doboş, A., Probst, M., Iovita, R., 2020. Thinking outside the box at open-air archeological contexts: Examples from loess landscapes in southeast Romania. Frontiers in Earth Science 8, 561207. http://doi.org/10.3389/feart.2020.561207

Flašarová, K., Strouhalová, B., Šefrna, L., Verrecchia, E., Lauer, T., Juřičková, L., Kolařík, P., Ložek, V., 2020. Multiproxy evidence of middle and Late Pleistocene environmental changes in the loess-paleosol sequence of Bůhzdař (Czech Republic). Quaternary International 552, 4-14. http://doi.org/10.1016/j.quaint.2019.10.004

Kang, S., Wang, X., Roberts, H.M., Duller, G.A.T., Song, Y., Liu, W., Zhang, R., Liu, X., Lan, J., 2020. Increasing effective moisture during the Holocene in the semiarid regions of the Yili Basin, Central Asia: Evidence from loess sections. Quaternary Science Reviews 246, 106553. http://doi.org/10.1016/j.quascirev.2020.106553

Novothny, Á., Barta, G., Végh, T., Bradák, B., Surányi, G., Horváth, E., 2020. Correlation of drilling cores and the Paks brickyard key section at the area of Paks, Hungary. Quaternary International 552, 50-61. http://doi.org/10.1016/j.quaint.2019.09.012

Perić, Z.M., Marković, S.B., Sipos, G., Gavrilov, M.B., Thiel, C., Zeeden, C., Murray, A.S., 2020. A post-IR IRSL chronology and dust mass accumulation rates of the Nosak loess-palaeosol sequence in northeastern Serbia. Boreas 49, 841-857. http://doi.org/10.1111/bor.12459

Richter, M., Tsukamoto, S., Long, H., 2020. ESR dating of Chinese loess using the quartz Ti centre: A comparison with independent age control. Quaternary International 556, 159-164. http://doi.org/10.1016/j.quaint.2019.04.003

Schellmann, G., Schielein, P., Burow, C., Radtke, U., 2020. Accuracy of ESR dating of small gastropods from loess and fluvial deposits in the Bavarian Alpine Foreland. Quaternary International 556, 198-215. http://doi.org/10.1016/j.quaint.2019.07.026

Stevens, T., Sechi, D., Bradák, B., Orbe, R., Baykal, Y., Cossu, G., Tziavaras, C., Andreucci, S., Pascucci, V., 2020. Abrupt last glacial dust fall over southeast England associated with dynamics of the British-Irish ice sheet. Quaternary Science Reviews 250, 106641. http://doi.org/10.1016/j.quascirev.2020.106641

Sycheva, S., Frechen, M., Terhorst, B., Sedov, S., Khokhlova, O., 2020. Pedostratigraphy and chronology of the Late Pleistocene for the extra glacial area in the Central Russian Upland (reference section Aleksandrov quarry). CATENA 194, 104689. http://doi.org/10.1016/j.catena.2020.104689

Tugulan, L., Secu, M., Bercu, V., Cotrubinis, M., Duliu, O.G., 2020. Concordant ESR and TL depositional age of Romanian Plane loess, in: Shukla, A.K. (Ed.), Spectroscopic Techniques for Archaeological and Cultural Heritage Research. IOP Publishing, pp. 1-9. http://doi.org/10.1088/978-0-7503-2616-2ch5

Yang, H., Li, G., Huang, X., Wang, X., Zhang, Y., Jonell, T.N., Jin, M., Chen, C., Zhao, W., Zhang, H., Wang, Z., Deng, Y., 2020. Loess depositional dynamics and paleoclimatic changes in the Yili Basin, Central Asia, over the past 250 ka. CATENA 195, 104881. http://doi.org/10.1016/j.catena.2020.104881

Yang, S., Li, D., Liu, N., Zan, J., Liu, W., Kang, J., Murodov, A., Fang, X., 2020. Quartz optically stimulated luminescence dating of loess in Tajikistan and its paleoclimatic implications for arid Central Asia since the Lateglacial. Palaeogeography, Palaeoclimatology, Palaeoecology 556, 109881. http://doi.org/10.1016/j.palaeo.2020.109881

- soil

Dreibrodt, S., Hofmann, R., Sipos, G., Schwark, L., Videiko, M., Shatilo, L., Martini, S., Saggau, P., Bork, H.-R., Kirleis, W., Duttmann, R., Müller, J., 2020. Holocene soil erosion in Eastern Europe-land use and/or climate controlled? The example of a catchment at the Giant Chalcolithic settlement at Maidanetske, central Ukraine. Geomorphology 367, 107302. http://doi.org/10.1016/j.geomorph.2020.107302

Follett, R.F., Stewart, C.E., Bradford, J., Pruessner, E.G., Sims, P.L., Vigil, M.F., 2020. Long-term pasture management impacts on eolian sand soils in the southern mixed-grass prairie. Quaternary International 565, 84-93. http://doi.org/10.1016/j.quaint.2020.07.019

Sycheva, S., Frechen, M., Terhorst, B., Sedov, S., Khokhlova, O., 2020. Pedostratigraphy and chronology of the Late Pleistocene for the extra glacial area in the Central Russian Upland (reference section Aleksandrov quarry). CATENA 194, 104689. http://doi.org/10.1016/j.catena.2020.104689

Wei, H., E, C., Zhang, J., Sun, Y., Li, Q., Hou, G., Duan, R., 2020. Climate change and anthropogenic activities in Qinghai Lake basin over the last 8500 years derived from pollen and charcoal records in an aeolian section. CATENA 193, 104616. http://doi.org/10.1016/j.catena.2020.104616

Zhang, J., E, C., Wu, C., Sun, Y., Li, P., Shi, Y., Sun, M., 2020. An alpine meadow soil chronology based on OSL and radiocarbon dating, Qinghai Lake, northeastern Tibetan Plateau. Quaternary International 562, 35-45. http://doi.org/10.1016/j.quaint.2020.05.044

- surface exposure dating

Brown, N.D., 2020. Which geomorphic processes can be informed by luminescence measurements? Geomorphology 367, 107296. http://doi.org/10.1016/j.geomorph.2020.107296

Stange, K.M., Midtkandal, I., Nystuen, J.P., Murray, A., Sohbati, R., Thompson, W., Spiegel, C., Kuss, H.-J., 2019. Erosive response of non-glaciated Pyrenean headwater catchments to the last major climate transition and establishing interglacial conditions. Quaternary 2, 17. http://doi.org/10.3390/quat2020017

- thermochronology

Pagonis, V., Kitis, G., Polymeris, G.S., 2020. Quantum tunneling processes in feldspars: Using thermoluminescence signals in thermochronometry. Radiation Measurements 134, 106325. http://doi.org/10.1016/j.radmeas.2020.106325

Archaeology applications

Aubry, T., Dimuccio, L.A., Barbosa, A.F., Luís, L., Santos, A.T., Silvestre, M., Thomsen, K.J., Rades, E., Autzen, M., Murray, A.S., 2020. Timing of the Middle-to-Upper Palaeolithic transition in the Iberian inland (Cardina-Salto do Boi, Côa Valley, Portugal). Quaternary Research 98, 81-101. http://doi.org/10.1017/qua.2020.43

Azevedo, R.L., Asfora, V.K., Mützenberg, D.S., Cisneiros, D., Sullasi, H.L., Kinoshita, A.M., Guzzo, P.L., Skinner, A.R., Baffa, O., Pessis, A.-M., Khoury, H.J., 2020. ESR dating of megafauna enamel teeth from

Lagoa Uri de Cima Archaeological Site (Pernambuco, Northeastern Brazil). Quaternary International 556, 38-48. http://doi.org/10.1016/j.quaint.2019.02.039

Bahain, J.-J., Duval, M., Voinchet, P., Tissoux, H., Falguères, C., Grün, R., Moreno, D., Shao, Q., Tombret, O., Jamet, G., Faivre, J.-P., Cliquet, D., 2020. ESR and ESR/U-series chronology of the Middle Pleistocene site of Tourville-la-Rivière (Normandy, France) - A multi-laboratory approach. Quaternary International 556, 58-70. http://doi.org/10.1016/j.quaint.2019.06.015

Ben Arous, E., Falguères, C., Tombret, O., El Hajraoui, M.A., Nespoulet, R., 2020. Combined US-ESR dating of fossil teeth from El Harhoura 2 cave (Morocco): New data about the end of the MSA in Temara region. Quaternary International 556, 88-95. http://doi.org/10.1016/j.quaint.2019.02.029

Benito-Calvo, A., Arnold, L.J., Mora, R., Martínez-Moreno, J., Demuro, M., 2020. Reconstructing Mousterian landscapes in the southeastern Pyrenees (Roca dels Bous site, Pre-Pyrenees ranges, Spain). Quaternary Research 97, 167-186. http://doi.org/10.1017/qua.2020.29

de Souza, J.J.L.L., de Souza, B.I., Xavier, R.A., Pacheco, A.A., Pessenda, L.C.R., dos Santos Brito, E., 2020. Archaeoanthrosol formation in the Brazilian semiarid. CATENA 193, 104603. http://doi.org/10.1016/j.catena.2020.104603

Demuro, M., Arnold, L.J., Duval, M., Méndez-Quintas, E., Santonja, M., Pérez-González, A., 2020. Refining the chronology of Acheulean deposits at Porto Maior in the River Miño basin (Galicia, Spain) using a comparative luminescence and ESR dating approach. Quaternary International 556, 96-112. http://doi.org/10.1016/j.quaint.2020.01.005

Duval, M., Voinchet, P., Arnold, L.J., Parés, J.M., Minnella, W., Guilarte, V., Demuro, M., Falguères, C., Bahain, J.-J., Despriée, J., 2020. A multi-technique dating study of two Lower Palaeolithic sites from the Cher Valley (Middle Loire Catchment, France): Lunery-la Terre-des-Sablons and Brinay-la Noira. Quaternary International 556, 71-87. http://doi.org/10.1016/j.quaint.2020.05.033

Falguères, C., 2020. The first human settlements out africa into Europe: A chronological perspective. Quaternary Science Reviews 247, 106551. http://doi.org/10.1016/j.quascirev.2020.106551

Fitzsimmons, K.E., Doboş, A., Probst, M., Iovita, R., 2020. Thinking outside the box at open-air archeological contexts: Examples from loess landscapes in southeast Romania. Frontiers in Earth Science 8, 561207. http://doi.org/10.3389/feart.2020.561207

Forget Brisson, L., Lamothe, M., Hardy, F., Graf, K.E., 2020. Exploring the use of a low temperature preheat in IRSL dating of feldspar in Beringian archaeological contexts. Radiation Measurements 136, 106387. http://doi.org/10.1016/j.radmeas.2020.106387

Guilarte, V., 2020. ESR dating in Archaeology, in: Shukla, A.K. (Ed.), Spectroscopic Techniques for Archaeological and Cultural Heritage Research. IOP Publishing, pp. 1-29. http://doi.org/10.1088/978-0-7503-2616-2ch2

Hein, M., Weiss, M., Otcherednoy, A., Lauer, T., 2020. Luminescence chronology of the key-Middle Paleolithic site Khotylevo I (Western Russia) - Implications for the timing of occupation, site formation and landscape evolution. Quaternary Science Advances 2, 100008. http://doi.org/10.1016/j.qsa.2020.100008

Hornak, J.P., 2020. The development of low frequency EPR spectroscopy for studying objects with cultural heritage significance, in: Shukla, A.K. (Ed.), Spectroscopic Techniques for Archaeological and Cultural Heritage Research. IOP Publishing, pp. 1-60. http://doi.org/10.1088/978-0-7503-2616-2ch3

Hu, G., Wang, P., Rahman, S.M., Li, D., Alam, M.M., Zhang, J., Jin, Z., Fan, A., Chen, J., Zhang, A., Yang, W., 2020. Vicissitudes experienced by the oldest urban center in Bangladesh in relation to the migration of the Brahmaputra River. Journal of Quaternary Science 35, 1089-1099. http://doi.org/10.1002/jqs.3240

Karimi Moayed, N., Vandenberghe, D.A.G., Deforce, K., Bastiaens, J., Ghyselbrecht, E., Debeer, A.E., De Smedt, P., De Clercq, W., De Grave, J., 2020. Bypassing the Suess-effect: Age determination of charcoal kiln remains using OSL dating. Journal of Archaeological Science 120, 105176. http://doi.org/10.1016/j.jas.2020.105176

Langewitz, T., Fülling, A., Klamm, M., Wiedner, K., 2020. Historical classification of ridge and furrow cultivation at selected locations in Northern and central Germany using a multi-dating approach and historical sources. Journal of Archaeological Science 123, 105248. http://doi.org/10.1016/j.jas.2020.105248

Ling, Z., Yang, X., Wang, Y., Wang, Y., Jin, J., Zhang, D., Chen, F., 2020. OSL chronology of the Liena archeological site in the Yarlung Tsangpo valley throws new light on human occupation of the Tibetan Plateau. The Holocene 30, 1043-1052. http://doi.org/10.1177/0959683620908643

Munyikwa, K., Gilliland, K., Plumb, E., Gibson, T., 2020. Investigating post-depositional sediment mixing at an archaeological site on the northern Plains using a portable optically stimulated luminescence (OSL) reader. Journal of Archaeological Science: Reports 33, 102508. http://doi.org/10.1016/j.jasrep.2020.102508

Niang, K., Blinkhorn, J., Ndiaye, M., Bateman, M., Seck, B., Sawaré, G., 2020. The Middle Stone Age occupations of Tiémassas, coastal West Africa, between 62 and 25 thousand years ago. Journal of Archaeological Science: Reports 34, 102658. http://doi.org/10.1016/j.jasrep.2020.102658

Ochando, J., Carrión, J.S., Blasco, R., Rivals, F., Rufà, A., Demuro, M., Arnold, L.J., Amorós, G., Munuera, M., Fernández, S., Rosell, J., 2020. Neanderthals in a highly diverse, mediterranean-Eurosiberian forest ecotone: The pleistocene pollen record of Teixoneres Cave, northeastern Spain. Quaternary Science Reviews 241, 106429. http://doi.org/10.1016/j.quascirev.2020.106429

Panzeri, L., Maspero, F., Galli, A., Sibilia, E., Martini, M., 2020. Luminescence and Radiocarbon Dating of Mortars at Milano-Bicocca Laboratories. Radiocarbon 62, 657-666. http://doi.org/10.1017/RDC.2020.6

Richard, M., Falguères, C., Pons-Branchu, E., Richter, D., Beutelspacher, T., Conard, N.J., Kind, C.J., 2020. The Middle to Upper Palaeolithic transition in Hohlenstein-Stadel cave (Swabian Jura, Germany): A comparison between ESR, U-series and radiocarbon dating. Quaternary International 556, 49-57. http://doi.org/10.1016/j.quaint.2019.04.009

Saos, T., Grégoire, S., Bahain, J.-J., Higham, T., Moigne, A.-M., Testu, A., Boulbes, N., Bachellerie, M., Chevalier, T., Becam, G., Duran, J.-P., Alladio, A., Ortega, M.I., Devièse, T., Shao, Q., 2020. The Middle and Upper Palaeolithic at La Crouzade cave (Gruissan, Aude, France): New excavations and a chronostratigraphic framework. Quaternary International 551, 85-104. http://doi.org/10.1016/j.quaint.2019.11.040

Stewart, M., Clark-Wilson, R., Breeze, P.S., Janulis, K., Candy, I., Armitage, S.J., Ryves, D.B., Louys, J., Duval, M., Price, G.J., Cuthbertson, P., Bernal, M.A., Drake, N.A., Alsharekh, A.M., Zahrani, B., Al-Omari, A., Roberts, P., Groucutt, H.S., Petraglia, M.D., 2020. Human footprints provide snapshot of last interglacial ecology in the Arabian interior. Science Advances 6, eaba8940. http://doi.org/10.1126/sciadv.aba8940

Tirelli, G., Lugli, S., Galli, A., Hajdas, I., Lindroos, A., Martini, M., Maspero, F., Olsen, J., Ringbom, Å., Sibilia, E., Caroselli, M., Silvestri, E., Panzeri, L., 2020. Integrated Dating of the Construction and Restoration of the Modena Cathedral Vaults (Northern Italy): Preliminary Results. Radiocarbon 62, 667-677. http://doi.org/10.1017/RDC.2020.10

Toyoda, S., 2020. Determination by ESR of the temperature of prehistoric lithic heat treatment, in: Shukla, A.K. (Ed.), Spectroscopic Techniques for Archaeological and Cultural Heritage Research. IOP Publishing, pp. 1-13. http://doi.org/10.1088/978-0-7503-2616-2ch4

Walker, M.J., Haber Uriarte, M., López Jiménez, A., López Martínez, M., Martín Lerma, I., Van der Made, J., Duval, M., Grün, R., 2020. Cueva Negra del Estrecho del Río Quípar: a Dated Late Early Pleistocene Palaeolithic Site in Southeastern Spain. Journal of Paleolithic Archaeologyhttp://doi.org/10.1007/s41982-020-00062-5

Xiaoqi, G., Xuefeng, S., Xiaobo, F., Shuangwen, Y., Xinying, Z., Deyin, L., Qiqi, T., 2020. Luminescence dating of the Jigongshan Paleolithic site in Hubei Province, southern China. Quaternary International 554, 36-44. http://doi.org/10.1016/j.quaint.2020.08.014

Yao, Y., Liao, W., Bae, C.J., Sun, X., Feng, Y., Tian, C., Li, J., Wei, S., Wang, W., 2020. New discovery of Late Pleistocene modern human teeth from Chongzuo, Guangxi, southern China. Quaternary International 563, 5-12. http://doi.org/10.1016/j.quaint.2020.02.002

Zeitoun, V., Chinnawut, W., Arnaud, L., Bochaton, C., Burdette, K., Thompson, J., Mallye, J.-B., Frère, S., Debruyne, R., Antoine, P.-O., William, J.R., Prasit, A., 2019. Dating, stratigraphy and taphonomy of the Pleistocene site of Ban Fa Suai II (Northern Thailand): Contributions to the study of paleobiodiversity in Southeast Asia. Annales de Paléontologie 105, 275-285. http://doi.org/10.1016/j.annpal.2019.03.005

Various ESR applications

Azevedo, R.L., Asfora, V.K., Mützenberg, D.S., Cisneiros, D., Sullasi, H.L., Kinoshita, A.M., Guzzo, P.L., Skinner, A.R., Baffa, O., Pessis, A.-M., Khoury, H.J., 2020. ESR dating of megafauna enamel teeth from Lagoa Uri de Cima Archaeological Site (Pernambuco, Northeastern Brazil). Quaternary International 556, 38-48. http://doi.org/10.1016/j.quaint.2019.02.039

Bahain, J.-J., Duval, M., Voinchet, P., Tissoux, H., Falguères, C., Grün, R., Moreno, D., Shao, Q., Tombret, O., Jamet, G., Faivre, J.-P., Cliquet, D., 2020. ESR and ESR/U-series chronology of the Middle Pleistocene site of Tourville-la-Rivière (Normandy, France) - A multi-laboratory approach. Quaternary International 556, 58-70. http://doi.org/10.1016/j.quaint.2019.06.015

Bartz, M., Duval, M., Brill, D., Zander, A., King, G.E., Rhein, A., Walk, J., Stauch, G., Lehmkuhl, F., Brückner, H., 2020. Testing the potential of K-feldspar pIR-IRSL and quartz ESR for dating coastal alluvial fan

complexes in arid environments. Quaternary International 556, 124-143. http://doi.org/10.1016/j.quaint.2020.03.037

Beerten, K., Verbeeck, K., Laloy, E., Vanacker, V., Vandenberghe, D., Christl, M., De Grave, J., Wouters, L., 2020. Electron spin resonance (ESR), optically stimulated luminescence (OSL) and terrestrial cosmogenic radionuclide (TCN) dating of quartz from a Plio-Pleistocene sandy formation in the Campine area, NE Belgium. Quaternary International 556, 144-158. http://doi.org/10.1016/j.quaint.2020.06.011

Ben Arous, E., Falguères, C., Tombret, O., El Hajraoui, M.A., Nespoulet, R., 2020. Combined US-ESR dating of fossil teeth from El Harhoura 2 cave (Morocco): New data about the end of the MSA in Temara region. Quaternary International 556, 88-95. http://doi.org/10.1016/j.quaint.2019.02.029

Demuro, M., Arnold, L.J., Duval, M., Méndez-Quintas, E., Santonja, M., Pérez-González, A., 2020. Refining the chronology of Acheulean deposits at Porto Maior in the River Miño basin (Galicia, Spain) using a comparative luminescence and ESR dating approach. Quaternary International 556, 96-112. http://doi.org/10.1016/j.quaint.2020.01.005

Demuro, M., Duval, M., Arnold, L.J., Spooner, N.A., Creighton, D.F., Méndez-Quintas, E., Santonja, M., Pérez-González, A., 2020. Insights into the relationship between luminescence and ESR dating signals from Spanish sedimentary quartz samples of different geologic origins. Quaternary International 556, 165-179. http://doi.org/10.1016/j.quaint.2020.05.037

Duval, M., Arnold, L.J., Rixhon, G., 2020. Electron spin resonance (ESR) dating in Quaternary studies: evolution, recent advances and applications. Quaternary International 556, 1-10. http://doi.org/10.1016/j.quaint.2020.07.044

Duval, M., Voinchet, P., Arnold, L.J., Parés, J.M., Minnella, W., Guilarte, V., Demuro, M., Falguères, C., Bahain, J.-J., Despriée, J., 2020. A multi-technique dating study of two Lower Palaeolithic sites from the Cher Valley (Middle Loire Catchment, France): Lunery-la Terre-des-Sablons and Brinay-la Noira. Quaternary International 556, 71-87. http://doi.org/10.1016/j.quaint.2020.05.033

Falguères, C., 2020. A French story of the ESR dating method for Quaternary samples. Quaternary International 556, 11-19. http://doi.org/10.1016/j.quaint.2019.09.047

Grün, R., 2020. A very personal, 35 years long journey in ESR dating. Quaternary International 556, 20-37. http://doi.org/10.1016/j.quaint.2018.11.038

Guilarte, V., 2020. ESR dating in Archaeology, in: Shukla, A.K. (Ed.), Spectroscopic Techniques for Archaeological and Cultural Heritage Research. IOP Publishing, pp. 1-29. http://doi.org/10.1088/978-0-7503-2616-2ch2

Hornak, J.P., 2020. The development of low frequency EPR spectroscopy for studying objects with cultural heritage significance, in: Shukla, A.K. (Ed.), Spectroscopic Techniques for Archaeological and Cultural Heritage Research. IOP Publishing, pp. 1-60. http://doi.org/10.1088/978-0-7503-2616-2ch3

Hu, C., Li, W., Cao, L., Xu, G., Zhou, Y., 2019. Evidence for wetter climate recorded in the Jingxian red clay section since approximately 840 ka ago and its relationship with the East Asian summer monsoon intensity. Quaternary International 532, 57-65. http://doi.org/10.1016/j.quaint.2019.09.031

Marra, F., Bahain, J.-J., Jicha, B.R., Nomade, S., Palladino, D.M., Pereira, A., Tolomei, C., Voinchet, P., Anzidei, M., Aureli, D., Ceruleo, P., Falguères, C., Florindo, F., Gatta, M., Ghaleb, B., La Rosa, M., Peretto, C., Petronio, C., Rocca, R., Rolfo, M.F., Salari, L., Smedile, A., Tombret, O., 2019. Reconstruction of the MIS 5.5, 5.3 and 5.1 coastal terraces in Latium (central Italy): A re-evaluation of the sea-level history in the Mediterranean Sea during the last interglacial. Quaternary International 525, 54-77. http://doi.org/10.1016/j.quaint.2019.09.001

Molodkov, A., 2020. The Late Pleistocene palaeoenvironmental evolution in Northern Eurasia through the prism of the mollusc shell-based ESR dating evidence. Quaternary International 556, 180-197. http://doi.org/10.1016/j.quaint.2019.05.031

Oka, T., Takahashi, A., Koarai, K., Mitsuyasu, Y., Kino, Y., Sekine, T., Shimizu, Y., Chiba, M., Suzuki, T., Osaka, K., Sasaki, K., Urushihara, Y., Endo, S., Suzuki, M., Shinoda, H., Fukumoto, M., 2020. External exposure dose estimation by electron spin resonance technique for wild Japanese macaque captured in Fukushima Prefecture. Radiation Measurements 134, 106315. http://doi.org/10.1016/j.radmeas.2020.106315

Rashad, A.M., Helal, A.E.I., Ahmed, G., Kassem, S., Fahim, R., Salem, S., Mohamed, S.E.-D., Gamal, A., 2020. Spectroscopic analysis of irradiated natural quartz and ESR dating aspects. Arab Journal of Nuclear Sciences and Applications 53, 197-209. http://doi.org/10.21608/ajnsa.2020.22502.1321

Richard, M., Falguères, C., Pons-Branchu, E., Richter, D., Beutelspacher, T., Conard, N.J., Kind, C.J., 2020. The Middle to Upper Palaeolithic transition in Hohlenstein-Stadel cave (Swabian Jura, Germany): A comparison between ESR, U-series and radiocarbon dating. Quaternary International 556, 49-57. http://doi.org/10.1016/j.quaint.2019.04.009

Richter, M., Tsukamoto, S., Long, H., 2020. ESR dating of Chinese loess using the quartz Ti centre: A comparison with independent age control. Quaternary International 556, 159-164. http://doi.org/10.1016/j.quaint.2019.04.003

Saos, T., Grégoire, S., Bahain, J.-J., Higham, T., Moigne, A.-M., Testu, A., Boulbes, N., Bachellerie, M., Chevalier, T., Becam, G., Duran, J.-P., Alladio, A., Ortega, M.I., Devièse, T., Shao, Q., 2020. The Middle and Upper Palaeolithic at La Crouzade cave (Gruissan, Aude, France): New excavations and a chronostratigraphic framework. Quaternary International 551, 85-104. http://doi.org/10.1016/j.quaint.2019.11.040

Schellmann, G., Schielein, P., Burow, C., Radtke, U., 2020. Accuracy of ESR dating of small gastropods from loess and fluvial deposits in the Bavarian Alpine Foreland. Quaternary International 556, 198-215. http://doi.org/10.1016/j.quaint.2019.07.026

Schielein, P., Burow, C., Pajon, J., Rojas Consuegra, R., Zhao, J.-x., Schellmann, G., 2020. ESR and U-Th dating results for Last Interglacial coral reef terraces at the northern coast of Cuba. Quaternary International 556, 216-229. http://doi.org/10.1016/j.quaint.2019.11.041

Stewart, M., Clark-Wilson, R., Breeze, P.S., Janulis, K., Candy, I., Armitage, S.J., Ryves, D.B., Louys, J., Duval, M., Price, G.J., Cuthbertson, P., Bernal, M.A., Drake, N.A., Alsharekh, A.M., Zahrani, B., Al-Omari, A., Roberts, P., Groucutt, H.S., Petraglia, M.D., 2020. Human footprints provide snapshot of last interglacial ecology in the Arabian interior. Science Advances 6, eaba8940. http://doi.org/10.1126/sciadv.aba8940

Todaka, A., Toyoda, S., Natsuhori, M., Okada, K., Sato, I., Sato, H., Sasaki, J., 2020. ESR assessment of tooth enamel dose from cattle bred in areas contaminated due to the Fukushima Dai-ichi nuclear power plant accident. Radiation Measurements 136, 106357. http://doi.org/10.1016/j.radmeas.2020.106357

Toyoda, S., 2020. Determination by ESR of the temperature of prehistoric lithic heat treatment, in: Shukla, A.K. (Ed.), Spectroscopic Techniques for Archaeological and Cultural Heritage Research. IOP Publishing, pp. 1-13. http://doi.org/10.1088/978-0-7503-2616-2ch4

Toyoda, S., Murahashi, M., Ivannikov, A., 2020. ESR tooth enamel retrospective dosimetry quoted as spin numbers. Radiation Measurements 135, 106333. http://doi.org/10.1016/j.radmeas.2020.106333

Tugulan, L., Secu, M., Bercu, V., Cotrubinis, M., Duliu, O.G., 2020. Concordant ESR and TL depositional age of Romanian Plane loess, in: Shukla, A.K. (Ed.), Spectroscopic Techniques for Archaeological and Cultural Heritage Research. IOP Publishing, pp. 1-9. http://doi.org/10.1088/978-0-7503-2616-2ch5

Voinchet, P., Pereira, A., Nomade, S., Falguères, C., Biddittu, I., Piperno, M., Moncel, M.H., Bahain, J.J., 2020. ESR dating applied to optically bleached quartz - A comparison with 40Ar/39Ar chronologies on Italian Middle Pleistocene sequences. Quaternary International 556, 113-123. http://doi.org/10.1016/j.quaint.2020.03.012

Walker, M.J., Haber Uriarte, M., López Jiménez, A., López Martínez, M., Martín Lerma, I., Van der Made, J., Duval, M., Grün, R., 2020. Cueva Negra del Estrecho del Río Quípar: a Dated Late Early Pleistocene Palaeolithic Site in Southeastern Spain. Journal of Paleolithic Archaeologyhttp://doi.org/10.1007/s41982-020-00062-5

Yuxin, F., Zhenjun, L., Guangliang, Y., Shuangwen, Y., Qingsong, Z., Wenhao, L., Xuesong, M., 2020. Sedimentary evidence and luminescence and ESR dating of Early Pleistocene high lake levels of Megalake Tengger, northwestern China. Journal of Quaternary Science 35, 994-1006. http://doi.org/10.1002/jqs.3246

Zeitoun, V., Chinnawut, W., Arnaud, L., Bochaton, C., Burdette, K., Thompson, J., Mallye, J.-B., Frère, S., Debruyne, R., Antoine, P.-O., William, J.R., Prasit, A., 2019. Dating, stratigraphy and taphonomy of the Pleistocene site of Ban Fa Suai II (Northern Thailand): Contributions to the study of paleobiodiversity in Southeast Asia. Annales de Paléontologie 105, 275-285. http://doi.org/10.1016/j.annpal.2019.03.005

Zhang, D., Wang, G., Pullen, A., Abell, J.T., Ji, J., Shen, T., 2020. Landscape evolution and development of eolian-modified unconsolidated gravel surfaces and yardangs in the Hami Basin, China. Geomorphology 368, 107355. http://doi.org/10.1016/j.geomorph.2020.107355

Basic research

Angeli, V., Kitis, G., Pagonis, V., Polymeris, G.S., 2020. Sequential two-step optical stimulation in K-feldspars: Correlation among the luminescence signals and implications for modeling parameters. Journal of Luminescence 226, 117425. http://doi.org/10.1016/j.jlumin.2020.117425

Autzen, M., Hansen, V., Murray, A.S., 2020. Reply to "Further considerations on 'Towards the origins of over-dispersion in beta source calibration' by Hansen et al., radiation measurements, 2018" by Munish Kumar. Radiation Measurements 138, 106446. http://doi.org/10.1016/j.radmeas.2020.106446

Brown, N.D., 2020. Which geomorphic processes can be informed by luminescence measurements? Geomorphology 367, 107296. http://doi.org/10.1016/j.geomorph.2020.107296

Chen, R., Lawless, J.L., Pagonis, V., 2020. Competition between long time excitation and fading of thermoluminescence (TL) and optically stimulated luminescence (OSL). Radiation Measurements 136, 106422. http://doi.org/10.1016/j.radmeas.2020.106422

Chruścińska, A., Palczewski, P., Rerek, T., 2020. Slow OSL component in quartz separated by TM-OSL method. Radiation Measurements 134, 106316. http://doi.org/10.1016/j.radmeas.2020.106316

Chruścińska, A., Palczewski, P., Rerek, T., Biernacka, M., Lefrais, Y., 2021. Measurement of the paleodose in luminescence dating using the TM-OSL of quartz. Measurement 167, 108448. http://doi.org/10.1016/j.measurement.2020.108448

Colarossi, D., Duller, G.A.T., Roberts, H.M., Tooth, S., Botha, G.A., 2020. A comparison of multiple luminescence chronometers at Voordrag, South Africa. Quaternary Geochronology 60, 101094. http://doi.org/10.1016/j.quageo.2020.101094

Fu, X., Li, B., Jacobs, Z., Jankowski, N.R., Cohen, T.J., Roberts, R.G., 2020. Establishing standardised growth curves (SGCs) for OSL signals from individual grains of quartz: A continental-scale case study. Quaternary Geochronology 60, 101107. http://doi.org/10.1016/j.quageo.2020.101107

Jain, M., Kumar, R., Kook, M., 2020. A novel coupled RPL/OSL system to understand the dynamics of the metastable states. Scientific Reports 10, 15565. http://doi.org/10.1038/s41598-020-72434-4

Kalita, J.M., Chithambo, M.L., 2021. Blue- and infrared-light stimulated luminescence of microcline and the effect of optical bleaching on its thermoluminescence. Journal of Luminescence 229, 117712. http://doi.org/10.1016/j.jlumin.2020.117712

Lawless, J.L., Chen, R., Pagonis, V., 2020. Inherent statistics of glow curves from small samples and single grains. Journal of Luminescence 226, 117389. http://doi.org/10.1016/j.jlumin.2020.117389

Mandowska, E., Majgier, R., Mandowski, A., 2020. Influence of optical bleaching on spectrally resolved thermoluminescence in beta irradiated potassium chloride pellets. Radiation Physics and Chemistry 173, 108876. http://doi.org/10.1016/j.radphyschem.2020.108876

Merezhnikov, A.S., Nikiforov, S.V., Pagonis, V., 2020. Simulation of thermoluminescence dose response in cluster systems with deep traps. Radiation Measurements 134, 106307. http://doi.org/10.1016/j.radmeas.2020.106307

Pagonis, V., Kitis, G., Chen, R., 2020. Superlinearity revisited: A new analytical equation for the dose response of defects in solids, using the Lambert W function. Journal of Luminescence 227, 117553. http://doi.org/10.1016/j.jlumin.2020.117553

Pagonis, V., Kitis, G., Polymeris, G.S., 2020. Quantum tunneling processes in feldspars: Using thermoluminescence signals in thermochronometry. Radiation Measurements 134, 106325. http://doi.org/10.1016/j.radmeas.2020.106325

Peng, J., Li, B., Jacobs, Z., 2020. Modelling heterogeneously bleached single-grain equivalent dose distributions: Implications for the reliability of burial dose determination. Quaternary Geochronology 60, 101108. http://doi.org/10.1016/j.quageo.2020.101108

Peng, J., Wang, X., 2020. On the production of the medium component in quartz OSL: Experiments and simulations. Radiation Measurements 138, 106448. http://doi.org/10.1016/j.radmeas.2020.106448

Polymeris, G.S., 2020. Optimization of OSL/IRSL experimental measurement parameters on various types of naturally occurring CaSO4 samples; sensitization pattern versus temperature, bleaching properties and slurry zeroing effect. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms 480, 38-44. http://doi.org/10.1016/j.nimb.2020.08.004

Rajapara, H.M., Kumar, V., Chauhan, N., Gajjar, P.N., Singhvi, A.K., 2020. Bleaching of blue light stimulated luminescence of quartz by moonlight. Journal of Earth System Science 129, 212. http://doi.org/10.1007/s12040-020-01474-1

Skuja, L., Ollier, N., Kajihara, K., 2020. Luminescence of non-bridging oxygen hole centers as a marker of particle irradiation of α-quartz. Radiation Measurements 135, 106373. http://doi.org/10.1016/j.radmeas.2020.106373

Tudyka, K., Bluszcz, A., Poręba, G., Miłosz, S., Adamiec, G., Kolarczyk, A., Kolb, T., Lomax, J., Fuchs, M., 2020. Increased dose rate precision in combined α and β counting in the μDose system - a probabilistic approach to data analysis. Radiation Measurements 134, 106310. http://doi.org/10.1016/j.radmeas.2020.106310

Van der Heggen, D., Vandenberghe, D., Moayed, N.K., De Grave, J., Smet, P.F., Joos, J.J., 2020. The almost hidden role of deep traps when measuring afterglow and thermoluminescence of persistent phosphors. Journal of Luminescence 226, 117496. http://doi.org/10.1016/j.jlumin.2020.117496

Yin, L., Townsend, P., Wang, Y., Reza Khanlary, M., Yang, M., 2020. Comparisons of thermoluminescence signals between crystal and powder samples. Radiation Measurements 135, 106380. http://doi.org/10.1016/j.radmeas.2020.106380

Dose rate issues

Tudyka, K., Bluszcz, A., Poręba, G., Miłosz, S., Adamiec, G., Kolarczyk, A., Kolb, T., Lomax, J., Fuchs, M., 2020. Increased dose rate precision in combined α and β counting in the μDose system - a probabilistic approach to data analysis. Radiation Measurements 134, 106310. http://doi.org/10.1016/j.radmeas.2020.106310

Dosimetry

Bassinet, C., Le Bris, W., 2020. TL investigation of glasses from mobile phone screen protectors for radiation accident dosimetry. Radiation Measurements 136, 106384. http://doi.org/10.1016/j.radmeas.2020.106384

Bossin, L., Bailiff, I., Terry, I., 2020. Radiological emergency dosimetry – The use of luminescent mineral fillers in polymer-based fabrics. Radiation Measurements 134, 106318. http://doi.org/10.1016/j.radmeas.2020.106318

Goto, S., Hayashi, H., Asahara, T., Kimoto, N., Tomita, E., Takegami, K., Asakawa, T., Kanazawa, Y., Okazaki, T., Hashizume, T., 2020. An idea to reduce angular dependence of dosimeter having a disk-shaped detection region. Radiation Measurements 137, 106323. http://doi.org/10.1016/j.radmeas.2020.106323

Kim, H., Kim, M.C., Lee, J., Discher, M., Woda, C., Lim, S., Chang, I., Lee, S.K., Kim, J.-L., Chung, K., 2020. Characterization of thermoluminescence of chip cards for emergency dosimetry. Radiation Measurements 134, 106321. http://doi.org/10.1016/j.radmeas.2020.106321

Mafodda, A., Woda, C., 2020. External dose-rate measurements based on smartphone CMOS sensors. Radiation Measurements 137, 106403. http://doi.org/10.1016/j.radmeas.2020.106403

Mandowska, E., Majgier, R., Mandowski, A., 2020. Influence of optical bleaching on spectrally resolved thermoluminescence in beta irradiated potassium chloride pellets. Radiation Physics and Chemistry 173, 108876. http://doi.org/10.1016/j.radphyschem.2020.108876

Mentzel, F., Kröninger, K., Röhrig, L., Speicher, L., Steil, M.-L., Theinert, R., Walbersloh, J., 2020. Extending information relevant for personal dose monitoring obtained from glow curves of thermoluminescence dosimeters using artificial neural networks. Radiation Measurements 136, 106375. http://doi.org/10.1016/j.radmeas.2020.106375

Mrozik, A., Bilski, P., Gieszczyk, W., Zorenko, Y., Gorbenko, V., 2020. Investigations of the influence of Am-241 photons on the measured alpha particle response of luminescent materials. Radiation Measurements 134, 106331. http://doi.org/10.1016/j.radmeas.2020.106331

Ogundare, F.O., Chithambo, M.L., Akintunde, B.O., 2021. Optically stimulated luminescence of cowrie shells. Applied Radiation and Isotopes 167, 109463. http://doi.org/10.1016/j.apradiso.2020.109463

Oka, T., Takahashi, A., Koarai, K., Mitsuyasu, Y., Kino, Y., Sekine, T., Shimizu, Y., Chiba, M., Suzuki, T., Osaka, K., Sasaki, K., Urushihara, Y., Endo, S., Suzuki, M., Shinoda, H., Fukumoto, M., 2020. External exposure dose estimation by electron spin resonance technique for wild Japanese macaque captured in Fukushima Prefecture. Radiation Measurements 134, 106315. http://doi.org/10.1016/j.radmeas.2020.106315

Sholom, S., McKeever, S.W.S., Chandler, J.R., 2020. OSL dosimetry with protective glasses of modern smartphones: A fiber-optic, non-destructive approach. Radiation Measurements 136, 106382. http://doi.org/10.1016/j.radmeas.2020.106382

Shrestha, N., Yukihara, E.G., Cusumano, D., Placidi, L., 2020. Al2O3:C and Al2O3:C,Mg optically stimulated luminescence 2D dosimetry applied to magnetic resonance guided radiotherapy. Radiation Measurements 138, 106439. http://doi.org/10.1016/j.radmeas.2020.106439

Todaka, A., Toyoda, S., Natsuhori, M., Okada, K., Sato, I., Sato, H., Sasaki, J., 2020. ESR assessment of tooth enamel dose from cattle bred in areas contaminated due to the Fukushima Dai-ichi nuclear power plant accident. Radiation Measurements 136, 106357. http://doi.org/10.1016/j.radmeas.2020.106357

Toyoda, S., Murahashi, M., Ivannikov, A., 2020. ESR tooth enamel retrospective dosimetry quoted as spin numbers. Radiation Measurements 135, 106333. http://doi.org/10.1016/j.radmeas.2020.106333

Trindade, N.M., Cruz, M.R., Yoshimura, E.M., 2020. Correlation between thermoluminescence and optically stimulated luminescence responses of natural alexandrite. Applied Radiation and Isotopes 166, 109402. http://doi.org/10.1016/j.apradiso.2020.109402

Yukihara, E.G., 2020. A review on the OSL of BeO in light of recent discoveries: The missing piece of the puzzle? Radiation Measurements 134, 106291. http://doi.org/10.1016/j.radmeas.2020.106291

Instruments

Lim, K.T., Kim, H., 2021. Feasibility assessment of an SiPM for implementation in an OSL reader. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment 986, 164746. http://doi.org/10.1016/j.nima.2020.164746

Portable instruments

Castillo, M., Muñoz-Salinas, E., Sanderson, D.C.W., Cresswell, A., 2020. Landscape evolution of Punta Arena sand spit (SE Baja California Peninsula, NW Mexico): Implications of ENSO on landscape erosion rates. CATENA 193, 104601. http://doi.org/10.1016/j.catena.2020.104601

Muñoz-Salinas, E., Castillo, M., Franco-Ramos, O., Arce, J.L., Sanderson, D.C.W., Cresswell, A.C., 2020. Assessing paraglacial processes at Nexpayantla Gorge (Popocatépetl volcano, Central Mexico) using OSL and 14C. Earth Surface Processes and Landforms 45, 2450-2462. http://doi.org/10.1002/esp.4890

Munyikwa, K., Gilliland, K., Plumb, E., Gibson, T., 2020. Investigating post-depositional sediment mixing at an archaeological site on the northern Plains using a portable optically stimulated luminescence (OSL) reader. Journal of Archaeological Science: Reports 33, 102508. http://doi.org/10.1016/j.jasrep.2020.102508

Sanderson, D.C.W., Kinnaird, T.C., 2019. Optically stimulated luminescence dating as a geochronological tool for Late Quaternary sediments in the Red Sea region, in: Rasul, N.M.A., Stewart, I.C.F. (Eds.), Geological Setting, Palaeoenvironment and Archaeology of the Red Sea. Springer International Publishing, Cham, pp. 685-707. http://doi.org/10.1007/978-3-319-99408-6_31

Computer coding

Brown, N.D., 2020. Which geomorphic processes can be informed by luminescence measurements? Geomorphology 367, 107296. http://doi.org/10.1016/j.geomorph.2020.107296

Saha, S., Owen, L.A., Orr, E.N., Caffee, M.W., 2020. A statistical and numerical modeling approach for spatiotemporal reconstruction of glaciations in the Central Asian mountains. MethodsX 7, 100820. http://doi.org/10.1016/j.mex.2020.100820

Review

Duval, M., Arnold, L.J., Rixhon, G., 2020. Electron spin resonance (ESR) dating in Quaternary studies: evolution, recent advances and applications. Quaternary International 556, 1-10. http://doi.org/10.1016/j.quaint.2020.07.044

Falguères, C., 2020. The first human settlements out africa into Europe: A chronological perspective. Quaternary Science Reviews 247, 106551. http://doi.org/10.1016/j.quascirev.2020.106551

Falguères, C., 2020. A French story of the ESR dating method for Quaternary samples. Quaternary International 556, 11-19. http://doi.org/10.1016/j.quaint.2019.09.047

Grün, R., 2020. A very personal, 35 years long journey in ESR dating. Quaternary International 556, 20-37. http://doi.org/10.1016/j.quaint.2018.11.038

Guilarte, V., 2020. ESR dating in Archaeology, in: Shukla, A.K. (Ed.), Spectroscopic Techniques for Archaeological and Cultural Heritage Research. IOP Publishing, pp. 1-29. http://doi.org/10.1088/978-0-7503-2616-2ch2

Hornak, J.P., 2020. The development of low frequency EPR spectroscopy for studying objects with cultural heritage significance, in: Shukla, A.K. (Ed.), Spectroscopic Techniques for Archaeological and Cultural Heritage Research. IOP Publishing, pp. 1-60. http://doi.org/10.1088/978-0-7503-2616-2ch3

Moska, P., 2019. Luminescence dating of Quaternary sediments – some practical aspects. Studia Quaternaria 36, 161-169. http://doi.org/10.24425/sq.2019.126387

Toyoda, S., 2020. Determination by ESR of the temperature of prehistoric lithic heat treatment, in: Shukla, A.K. (Ed.), Spectroscopic Techniques for Archaeological and Cultural Heritage Research. IOP Publishing, pp. 1-13. http://doi.org/10.1088/978-0-7503-2616-2ch4

Yukihara, E.G., 2020. A review on the OSL of BeO in light of recent discoveries: The missing piece of the puzzle? Radiation Measurements 134, 106291. http://doi.org/10.1016/j.radmeas.2020.106291