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## Bibliography

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### Various geological applications

#### *- aeolian*

- Buckland, C.E., Thomas, D.S.G., Bailey, R.M., 2019. Complex disturbance-driven reactivation of near-surface sediments in the largest dunefield in North America during the last 200 years. *Earth Surface Processes and Landforms* 44, 2794-2809. <http://doi.org/10.1002/esp.4708>
- Carr, A.S., Hay, A.S., Powell, D.M., Livingstone, I., 2019. Testing post-IR IRSL luminescence dating methods in the southwest Mojave Desert, California, USA. *Quaternary Geochronology* 49, 85-91. <http://doi.org/10.1016/j.quageo.2018.05.006>
- Chen, D., Pan, B., Hu, X., Wang, Y., Pan, X., Wang, W., Zhang, J., Pang, H., 2019. Formation age of Jiudong Sandy Land, in the western Hexi Corridor, NW China. *Quaternary International* 513, 47-55. <http://doi.org/10.1016/j.quaint.2019.02.026>
- ChongYi, E., Jing, Z., ZongYan, C., YongJuan, S., YaJuan, Z., Ping, L., ManPing, S., YunKun, S., 2019. High resolution OSL dating of aeolian activity at Qinghai Lake, Northeast Tibetan Plateau. *CATENA* 183, 104180. <http://doi.org/10.1016/j.catena.2019.104180>
- Ellerton, D., Rittenour, T., Miot da Silva, G., Gontz, A., Shulmeister, J., Hesp, P., Santini, T.C., Welsh, K.J., 2018. Late-Holocene cliff-top blowout activation and evolution in the Cooloola Sand Mass, south-east Queensland, Australia. *The Holocene* 28, 1697-1711. <http://doi.org/10.1177/0959683618788679>
- Fitzsimmons, K.E., Spry, C., Stern, N., 2019. Holocene and recent aeolian reactivation of the Willandra Lakes lunettes, semi-arid southeastern Australia. *The Holocene* 29, 606-621. <http://doi.org/10.1177/0959683618824790>
- Fuchs, M., Lomax, J., 2019. Stone pavements in arid environments: Reasons for De overdispersion and grain-size dependent OSL ages. *Quaternary Geochronology* 49, 191-198. <http://doi.org/10.1016/j.quageo.2018.05.013>
- Kalińska, E., 2019. Understanding a continuous inland aeolian deposition: a closer look into a chronological and sedimentary record of the north-eastern European Sand Belt. *Bulletin of Geography. Physical Geography Series* 16, 31-43. <http://doi.org/10.2478/bgeo-2019-0003>
- Kalińska, E., Hang, T., Jõeleht, A., Olo, S., Nartiss, M., Adamiec, G., 2019. Macro- and micro-scale study and chronology of Late Weichselian aeolian sediments in Estonia, north-eastern European Sand Belt. *International Journal of Earth Sciences* 108, 2021-2035. <http://doi.org/10.1007/s00531-019-01746-2>
- Kruczkowska, B., Błaszkiewicz, M., Jonczak, J., Uzarowicz, Ł., Moska, P., Brauer, A., Bonk, A., Słowiński, M., 2020. The Late Glacial pedogenesis interrupted by aeolian activity in Central Poland – records from the Lake Gościąż catchment. *CATENA* 185, 104286. <http://doi.org/10.1016/j.catena.2019.104286>
- Luo, W., Wang, Z., Lu, J., Yang, L., Qian, G., Dong, Z., Bateman, M.D., 2019. Mega-blowouts in Qinghai-Tibet Plateau: Morphology, distribution and initiation. *Earth Surface Processes and Landforms* 44, 449-458. <http://doi.org/10.1002/esp.4507>
- Luo, W., Wang, Z., Lu, J., Yang, L., Qian, G., Dong, Z., Bateman, M.D., 2019. Mega-blowouts in Qinghai-Tibet Plateau: Morphology, distribution and initiation. *Earth Surface Processes and Landforms* 44, 449-458. <http://doi.org/10.1002/esp.4507>
- Messineo, P.G., Tonello, M.S., Stutz, S., Tripaldi, A., Scheifler, N., Pal, N., Sánchez Vuichard, G., Navarro, D., 2019. Human occupation strategies and related environmental-climate during the middle and late Holocene in central Pampas of Argentina. *The Holocene* 29, 244-261. <http://doi.org/10.1177/0959683618810407>
- Neudorf, C.M., Lian, O.B., McIntosh, P.D., Gingerich, T.B., Augustinus, P.C., 2019. Investigation into the OSL and TT-OSL signal characteristics of ancient (>100 ka) Tasmanian aeolian quartz and its utility as a geochronometer for understanding long-term climate-driven landscape change. *Quaternary Geochronology* 53, 101005. <http://doi.org/10.1016/j.quageo.2019.101005>

- Rahimzadeh, N., Khormali, F., Gribenski, N., Tsukamoto, S., Kehl, M., Pint, A., Kiani, F., Frechen, M., 2019. Timing and development of sand dunes in the Golestan Province, northern Iran—Implications for the Late-Pleistocene history of the Caspian Sea. *Aeolian Research* 41, 100538.  
<http://doi.org/10.1016/j.aeolia.2019.07.004>
- Ritter, B., Wennrich, V., Medialdea, A., Brill, D., King, G., Schneiderwind, S., Niemann, K., Fernández-Galego, E., Diederich, J., Rolf, C., Bao, R., Melles, M., Dunai, T.J., 2019. "Climatic fluctuations in the hyperarid core of the Atacama Desert during the past 215 ka". *Scientific Reports* 9, 5270.  
<http://doi.org/10.1038/s41598-019-41743-8>
- Srivastava, A., Durcan, J.A., Thomas, D.S.G., 2019. Analysis of late Quaternary linear dune development in the Thar Desert, India. *Geomorphology* 344, 90-98. <http://doi.org/10.1016/j.geomorph.2019.07.013>
- Srivastava, A., Thomas, D.S.G., Durcan, J.A., 2019. Holocene dune activity in the thar desert, India. *Earth Surface Processes and Landforms* 44, 1407-1418. <http://doi.org/10.1002/esp.4583>
- Wacha, L., Montanari, A., Lomax, J., Fiebig, M., Lüthgens, C., Korbar, T., Koeberl, C., 2019. Last Glacial Maximum giant sand dunes on the island of Vis, Croatia, 542. in: Koeberl, C., Bice, D.M. (Eds.), 250 million years of earth history in central Italy: Celebrating 25 years of the geological observatory of Coldigioco. Geological Society of America, pp. 459-470. [http://doi.org/10.1130/2019.2542\(26\)](http://doi.org/10.1130/2019.2542(26))
- Yang, L., Long, H., Cheng, H., He, Z., Hu, G., 2019. OSL dating of a mega-dune in the eastern Lake Qinghai basin (northeastern Tibetan Plateau) and its implications for Holocene aeolian activities. *Quaternary Geochronology* 49, 165-171. <http://doi.org/10.1016/j.quageo.2018.02.005>
- Yang, X., Liang, P., Zhang, D., Li, H., Rioual, P., Wang, X., Xu, B., Ma, Z., Liu, Q., Ren, X., Hu, F., He, Y., Rao, G., Chen, N., 2019. Holocene aeolian stratigraphic sequences in the eastern portion of the desert belt (sand seas and sandy lands) in northern China and their palaeoenvironmental implications. *Science China Earth Sciences* 62, 1302-1315. <http://doi.org/10.1007/s11430-018-9304-y>
- Zhang, Y., Huang, C.C., Tan, Z., Qiu, H., Chen, Y., Cuan, Y., Zhao, H., Tan, Z., Zou, M., Wang, J., Zhang, Y., 2019. Palaeoclimatic and palaeoenvironmental implications of late-Pleistocene aeolian sand in the Jin-Shaan Gorges of the Yellow River valley revealed by luminescence chronology. *The Holocene* 29, 964-974. <http://doi.org/10.1177/0959683619831421>

- *cave*

- Arriolabengoa, M., Iriarte, E., Aranburu, A., Yusta, I., Arnold, L.J., Demuro, M., Arrizabalaga, A., 2018. Reconstructing the sedimentary history of Lezetxiki II cave (Basque Country, northern Iberian Peninsula) using micromorphological analysis. *Sedimentary Geology* 372, 96-111.  
<http://doi.org/10.1016/j.sedgeo.2018.05.006>
- Deák, J., Preusser, F., Cattin, M.I., Castel, J.C., Chauvière, F.X., 2019. New data from the Middle Palaeolithic Cotencher cave (Swiss Jura): site formation, environment, and chronology. *Quaternary Science Journal (Eiszeitalter & Gegenwart)* 67, 41-72. <http://doi.org/10.5194/egqsj-67-41-2019>
- Montanari, A., Lüthgens, C., Lomax, J., Mainiero, M., Mariani, S., Fiebig, M., 2019. Luminescence geochronology of Pleistocene slack-water deposits in the Frasassi hypogenic cave system, Italy, 542. in: Koeberl, C., Bice, D.M. (Eds.), 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco. Geological Society of America, pp. 411-428.  
[http://doi.org/10.1130/2019.2542\(23\)](http://doi.org/10.1130/2019.2542(23))

- *coastal*

- Carvalho, R.C., Oliver, T.S.N., Woodroffe, C.D., 2019. Transition from marine to fluvial-dominated sediment supply at Shoalhaven prograded barrier, southeastern Australia. *Geomorphology* 341, 65-78.  
<http://doi.org/10.1016/j.geomorph.2019.05.010>
- Erginal, A.E., Polymeris, G.S., Karataş, A., Giannoulatou, V., Şahiner, E., Meriç, N., Erenoğlu, O., Selim, H.H., Karabıyıkoglu, M., 2019. Raised braided stream gravels on Mount Keldağ, Hatay (Eastern Mediterranean coast, Turkey): implications of transformation to beachrock and ensuing tectonic uplift. *Mediterranean Geoscience Reviews* 1, 45-53. <http://doi.org/10.1007/s42990-019-00006-4>
- García, J.-L., Andrade, B., Calderón, M., Lüthgens, C., 2019. Multi-millennial scale climate variability during MIS 3 and MIS 2 inferred from luminescence dating of coastal sand dunes and buried paleosol sequences in central Chile, 32°S. *Journal of Quaternary Science* 34, 203-214. <http://doi.org/10.1002/jqs.3092>
- Ge, W., Li, C., Xing, H., Li, L., Li, Y.-X., Rittenour, T., Hu, Z., 2019. Examining the chronology of transgressions since the late Pleistocene in the Fujian coast, southeastern China. *Quaternary International* 527, 34-43. <http://doi.org/10.1016/j.quaint.2018.11.034>

- Hein, C.J., Shawler, J.L., De Camargo, J.M., Klein, A.H.D.F., Tenebruso, C., Fenster, M.S., 2019. The role of coastal sediment sinks in modifying longshore sand fluxes: Examples from the coasts of southern Brazil and the mid-atlantic USA. *Coastal Sediments*. WORLD SCIENTIFIC, pp. 2330-2344.  
[http://doi.org/10.1142/9789811204487\\_0199](http://doi.org/10.1142/9789811204487_0199)
- Jin, J., Huang, Y., Li, Z., Fan, X., Ling, Z., Li, Z., Liu, X., 2019. Optically stimulated luminescence dating of coastal sediments at Funing Bay, Southeastern China. *Geochronometria* 46, 15-24.  
<http://doi.org/10.1515/geochr-2015-0103>
- Korsakova, O., Molodkov, A., Yelovicheva, Y., Kolka, V., 2019. Middle Pleistocene marine deposits on the Kola Peninsula (NW Russia). *Quaternary International* 509, 3-16.  
<http://doi.org/10.1016/j.quaint.2018.09.019>
- Muñiz, F., Cáceres, L.M., Rodríguez-Vidal, J., Neto de Carvalho, C., Belo, J., Finlayson, C., Finlayson, G., Finlayson, S., Izquierdo, T., Abad, M., Jiménez-Espejo, F.J., Sugisaki, S., Gómez, P., Ruiz, F., 2019. Following the last Neanderthals: Mammal tracks in Late Pleistocene coastal dunes of Gibraltar (S Iberian Peninsula). *Quaternary Science Reviews* 217, 297-309. <http://doi.org/10.1016/j.quascirev.2019.01.013>
- Mushkin, A., Katz, O., Porat, N., 2019. Overestimation of short-term coastal cliff retreat rates in the eastern Mediterranean resolved with a sediment budget approach. *Earth Surface Processes and Landforms* 44, 179-190. <http://doi.org/10.1002/esp.4490>
- Nian, X., Zhang, W., Qiu, F., Qin, J., Wang, Z., Sun, Q., Chen, J., Chen, Z., Liu, N., 2019. Luminescence characteristics of quartz from Holocene delta deposits of the Yangtze River and their provenance implications. *Quaternary Geochronology* 49, 131-137. <http://doi.org/10.1016/j.quageo.2018.04.010>
- Normand, R., Simpson, G., Herman, F., Biswas, R.H., Bahroudi, A., Schneider, B., 2019. Dating and morphostratigraphy of uplifted marine terraces in the Makran subduction zone (Iran). *Earth Surf. Dynam.* 7, 321-344. <http://doi.org/10.5194/esurf-7-321-2019>
- Oliver, T.S.N., Tamura, T., Short, A.D., Woodroffe, C.D., 2019. Rapid shoreline progradation followed by vertical foredune building at Pedro Beach, southeastern Australia. *Earth Surface Processes and Landforms* 44, 655-666. <http://doi.org/10.1002/esp.4510>
- Ott, R.F., Gallen, S.F., Wegmann, K.W., Biswas, R.H., Herman, F., Willett, S.D., 2019. Pleistocene terrace formation, Quaternary rock uplift rates and geodynamics of the Hellenic Subduction Zone revealed from dating of paleoshorelines on Crete, Greece. *Earth and Planetary Science Letters* 525, 115757.  
<http://doi.org/10.1016/j.epsl.2019.115757>
- Sherwood, J.E., Bowler, J.M., Carey, S.P., Hellstrom, J., McNiven, I.J., Murray-Wallace, C.V., Prescott, J.R., Questiaux, D.G., Spooner, N.A., Williams, F.M., Woodhead, J.D., 2019. The Moyjil site, south-west Victoria, Australia: chronology. *Proceedings of the Royal Society of Victoria* 130, 32-49.  
<http://doi.org/10.1071/RS18005>
- Surakiatchai, P., Songsangworn, E., Pailoplee, S., Choowong, M., Phantuwongraj, S., Chabangborn, A., Charusiri, P., 2019. Optically stimulated luminescence dating reveals rate of beach ridge and sand spit depositions from the upper Gulf of Thailand. *Songklanakarin Journal of Science and Technology* 41, 1136-1145. <https://rdo.psu.ac.th/sjstweb/journal/41-5/23.pdf>
- Tamura, T., Cunningham, A.C., Oliver, T.S.N., 2019. Two-dimensional chronostratigraphic modelling of OSL ages from recent beach-ridge deposits, SE Australia. *Quaternary Geochronology* 49, 39-44.  
<http://doi.org/10.1016/j.quageo.2018.03.003>
- Tamura, T., Oliver, T.S.N., Cunningham, A.C., Woodroffe, C.D., 2019. Recurrence of extreme coastal erosion in SE Australia beyond historical timescales inferred from beach ridge morphostratigraphy. *Geophysical Research Letters* 46, 4705-4714. <http://doi.org/10.1029/2019gl083061>
- van den Biggelaar, D.F.A.M., Wallinga, J., van Balen, R.T., Kasse, C., Troelstra, S., Kluiving, S.J., 2019. High-resolution optical dating of Late Holocene storm surge deposits – a showcase from Schokland (Noordoostpolder, the Netherlands). *Earth Surface Processes and Landforms* 44, 886-899.  
<http://doi.org/10.1002/esp.4542>

- colluvial

- Kanari, M., Katz, O., Weinberger, R., Porat, N., Marco, S., 2019. Evaluating earthquake-induced rockfall hazard near the Dead Sea Transform. *Natural Hazards And Earth System Sciences* 19, 889-906.  
<http://doi.org/10.5194/nhess-19-889-2019>
- Kołodyńska-Gawrysiak, R., 2019. Holocene evolution of closed depressions and its relation to landscape dynamics in the loess areas of Poland. *The Holocene* 29, 543-564.  
<http://doi.org/10.1177/0959683618824792>

van der Meij, W.M., Reimann, T., Vornehm, V.K., Temme, A.J.A.M., Wallinga, J., van Beek, R., Sommer, M., 2019. Reconstructing rates and patterns of colluvial soil redistribution in agrarian (hummocky) landscapes. *Earth Surface Processes and Landforms* 44, 2408-2422. <http://doi.org/10.1002/esp.4671>

- **earthquake (and fault related)**

- Arora, S., Malik, J.N., Sahoo, S., 2019. Paleoseismic evidence of a major earthquake event(s) along the hinterland faults: Pinjore Garden Fault (PGF) and Jhajra Fault (JF) in northwest Himalaya, India. *Tectonophysics* 757, 108-122. <http://doi.org/10.1016/j.tecto.2019.01.001>
- del Río, I., Sawakuchi, A.O., González, G., 2019. Luminescence dating of sediments from central Atacama Desert, northern Chile. *Quaternary Geochronology* 53, 101002. <http://doi.org/10.1016/j.quageo.2019.05.001>
- Gold, R.D., DuRoss, C.B., Delano, J.E., Jibson, R.W., Briggs, R.W., Mahan, S.A., Williams, R.A., Corbett, D.R., 2019. Four Major Holocene Earthquakes on the Reelfoot Fault Recorded by Sackungen in the New Madrid Seismic Zone, USA. *Journal of Geophysical Research: Solid Earth* 124, 3105-3126. <http://doi.org/10.1029/2018jb016806>
- Kim, J.H., Ree, J.-H., Choi, J.-H., Chauhan, N., Hirose, T., Kitamura, M., 2019. Experimental investigations on dating the last earthquake event using OSL signals of quartz from fault gouges. *Tectonophysics* 769, 228191. <http://doi.org/10.1016/j.tecto.2019.228191>
- Li, X., Feng, X., Li, X., Li, C., Zheng, W., Zhang, P., Pierce, I.K.D., Li, G., Li, C., Liu, Y., Ren, G., Luo, Q., 2019. Geological and geomorphological evidence for active faulting of the southern Liupanshan fault zone, NE Tibetan Plateau. *Geomorphology* 345, 106849. <http://doi.org/10.1016/j.geomorph.2019.106849>
- Li, X., Zhang, P., Zheng, W., Feng, X., Li, C., Pierce, I.K.D., Xu, H., Li, X., Ai, M., Chen, G., Dong, J., Liu, J., Ren, G., 2018. Kinematics of late Quaternary slip along the Qishan-Mazhao fault: Implications for tectonic deformation on the southwestern Ordos, China. *Tectonics* 37, 2983-3000. <http://doi.org/10.1029/2018tc005043>
- Little, T.A., Van Dissen, R., Kearse, J., Norton, K., Benson, A., Wang, N., 2018. Kekerengu Fault, New Zealand: Timing and size of Late Holocene surface ruptures. *Bulletin of the Seismological Society of America* 108, 1556-1572. <http://doi.org/10.1785/0120170152>
- Pucci, S., Villani, F., Civico, R., Di Nuccio, D., Porreca, M., Benedetti, L., Gueli, A., Stella, G., Baccheschi, P., Pantosti, D., 2019. Complexity of the 2009 L'Aquila earthquake causative fault system (Abruzzi Apennines, Italy) and effects on the Middle Aterno Quaternary basin arrangement. *Quaternary Science Reviews* 213, 30-66. <http://doi.org/10.1016/j.quascirev.2019.04.014>
- Ren, J., Xu, X., Zhang, S., Ding, R., Liu, H., Liang, O., Zhao, J., 2019. Late Quaternary slip rates and Holocene paleoearthquakes of the eastern Yumu Shan fault, northeast Tibet: Implications for kinematic mechanism and seismic hazard. *Journal of Asian Earth Sciences* 176, 42-56. <http://doi.org/10.1016/j.jseas.2019.02.006>
- Shao, Y., Yuan, D., Osokin, M.E., Wang, P., Liu-Zeng, J., Li, C., Wu, Z., 2017. Historical (Yuan Dynasty) earthquake on the north Danghe Nanshan thrust, western Qilian Shan, China. *Bulletin of the Seismological Society of America* 107, 1175-1184. <http://doi.org/10.1785/0120160289>
- Van Balen, R.T., Bakker, M.A.J., Kasse, C., Wallinga, J., Woolderink, H.A.G., 2019. A Late Glacial surface rupturing earthquake at the Peel Boundary fault zone, Roer Valley Rift System, the Netherlands. *Quaternary Science Reviews* 218, 254-266. <http://doi.org/10.1016/j.quascirev.2019.06.033>
- Yang, H.L., Chen, J., Yao, L., Liu, C.R., Shimamoto, T., Thompson Jobe, J.A., 2019. Resetting of OSL/TL/ESR signals by frictional heating in experimentally sheared quartz gouge at seismic slip rates. *Quaternary Geochronology* 49, 52-56. <http://doi.org/10.1016/j.quageo.2018.05.005>
- Zhang, Y.-P., Zheng, W.-J., Zhang, D.-L., Zhang, P.-Z., Yuan, D.-Y., Tian, Q.-Y., Zhang, B.-X., Liang, S.-M., 2019. Late Pleistocene left-lateral slip rates of the Gulang Fault and its tectonic implications in eastern Qilian Shan (NE Tibetan Plateau), China. *Tectonophysics* 756, 97-111. <http://doi.org/10.1016/j.tecto.2019.02.013>
- Zinke, R., Dolan, J.F., Rhodes, E.J., Van Dissen, R., McGuire, C.P., Hatem, A.E., Brown, N.D., Langridge, R.M., 2019. Multimillennial Incremental Slip Rate Variability of the Clarence Fault at the Tophouse Road Site, Marlborough Fault System, New Zealand. *Geophysical Research Letters* 46, 717-725. <http://doi.org/10.1029/2018gl080688>

- fluvial

- Alderson, D.M., Evans, M.G., Rothwell, J.J., Rhodes, E.J., Boult, S., 2019. Geomorphological controls on fluvial carbon storage in headwater peatlands. *Earth Surface Processes and Landforms* 44, 1675-1693. <http://doi.org/10.1002/esp.4602>
- Aslan, A., Karlstrom, K.E., Kirby, E., Heizler, M.T., Granger, D.E., Feathers, J.K., Hanson, P.R., Mahan, S.A., 2019. Resolving time-space histories of Late Cenozoic bedrock incision along the Upper Colorado River, USA. *Geomorphology* 347, 106855. <http://doi.org/10.1016/j.geomorph.2019.106855>
- Bender, A.M., Lease, R.O., Haeussler, P.J., Rittenour, T., Corbett, L.B., Bierman, P.R., Caffee, M.W., 2019. Pace and process of active folding and fluvial incision across the Kantishna Hills anticline, Central Alaska. *Geophysical Research Letters* 46, 3235-3244. <http://doi.org/10.1029/2018gl081509>
- Carling, P.A., Leclair, S.F., 2019. Alluvial stratification styles in a large, flash-flood influenced dryland river: The Luni River, Thar Desert, north-west India. *Sedimentology* 66, 102-128. <http://doi.org/10.1111/sed.12487>
- Chamberlain, E.L., Wallinga, J., 2019. Seeking enlightenment of fluvial sediment pathways by optically stimulated luminescence signal bleaching of river sediments and deltaic deposits. *Earth Surface Dynamics* 7, 723-736. <http://doi.org/10.5194/esurf-7-723-2019>
- Dave, A.K., Courty, M.-A., Fitzsimmons, K.E., Singhvi, A.K., 2019. Revisiting the contemporaneity of a mighty river and the Harappans: Archaeological, stratigraphic and chronometric constraints. *Quaternary Geochronology* 49, 230-235. <http://doi.org/10.1016/j.quageo.2018.05.002>
- del Val, M., Duval, M., Medialdea, A., Bateman, M.D., Moreno, D., Arriolabengoa, M., Aranburu, A., Iriarte, E., 2019. First chronostratigraphic framework of fluvial terrace systems in the eastern Cantabrian margin (Bay of Biscay, Spain). *Quaternary Geochronology* 49, 108-114. <http://doi.org/10.1016/j.quageo.2018.07.001>
- Dutta, S., Mujtaba, S.A.I., Bhavani, R., Raza, M.A., Chuncekhar, R., Sadiq, M., 2020. Responses of Indian Summer Monsoon Dynamics and Late Quaternary Fluvial Development: Records from Yamuna River Valley, NW-Himalaya, in: Goel, P.S., Ravindra, R., Chattopadhyay, S. (Eds.), *Climate Change and the White World*. Springer International Publishing, Cham, pp. 187-218. [http://doi.org/10.1007/978-3-030-21679-5\\_13](http://doi.org/10.1007/978-3-030-21679-5_13)
- Erturaç, M.K., Şahiner, E., Zabıcı, C., Okur, H., Polymeris, G.S., Meriç, N., İkiel, C., 2019. Fluvial response to rising levels of the Black Sea and to climate changes during the Holocene: Luminescence geochronology of the Sakarya terraces. *The Holocene* 29, 941-952. <http://doi.org/10.1177/0959683619831428>
- Fu, X., Cohen, T.J., Fryirs, K., 2019. Single-grain OSL dating of fluvial terraces in the upper Hunter catchment, southeastern Australia. *Quaternary Geochronology* 49, 115-122. <http://doi.org/10.1016/j.quageo.2018.06.002>
- Gao, H., Li, Z., Liu, F., Wu, Y., Li, P., Zhao, X., Li, F., Guo, J., Liu, C., Pan, B., Jia, H., 2020. Terrace formation and river valley development along the lower Taohe River in central China. *Geomorphology* 348, 106885. <http://doi.org/10.1016/j.geomorph.2019.106885>
- Gao, L., Long, H., Zhang, P., Tamura, T., Feng, W., Mei, Q., 2019. The sedimentary evolution of Yangtze River delta since MIS3: A new chronology evidence revealed by OSL dating. *Quaternary Geochronology* 49, 153-158. <http://doi.org/10.1016/j.quageo.2018.03.010>
- Garon, H., Voinchet, P., Bahain, J.J., Despriée, J., Courcimault, G., Tissoux, H., Falguères, C., 2017. Datation ESR de quartz fluviatiles : nouvelles données chronologiques pour le secteur « intermédiaire » de la vallée de la Creuse (Indre, région Centre, France). *Quaternaire* 28, 73-85. <http://doi.org/10.4000/quaternaire.7838>
- Graves, B.P., Ralph, T.J., Hesse, P.P., Westaway, K.E., Kobayashi, T., Gadd, P.S., Mazumder, D., 2019. Macro-charcoal accumulation in floodplain wetlands: Problems and prospects for reconstruction of fire regimes and environmental conditions. *PLOS ONE* 14, e0224011. <http://doi.org/10.1371/journal.pone.0224011>
- Gutiérrez, F., Sevil, J., Silva, P.G., Roca, E., Escosa, F., 2019. Geomorphic and stratigraphic evidence of Quaternary diapiric activity enhanced by fluvial incision. Navarrés salt wall and graben system, SE Spain. *Geomorphology* 342, 176-195. <http://doi.org/10.1016/j.geomorph.2019.06.002>
- He, Z., Long, H., Yang, L., Zhou, J., 2019. Luminescence dating of a fluvial sequence using different grain size fractions and implications on Holocene flooding activities in Weihe Basin, central China. *Quaternary Geochronology* 49, 123-130. <http://doi.org/10.1016/j.quageo.2018.05.007>
- Huang, M., Zhu, C., Ma, C., Yang, Z., Liu, Y., Jia, T., 2020. The Hongqiaocun Site: The earliest evidence of ancient flood sedimentation of the water conservancy facilities in the Chengdu Plain, China. *CATENA* 185, 104296. <http://doi.org/10.1016/j.catena.2019.104296>
- Larsen, A., May, J.-H., Carah, X., 2019. Late Quaternary biotic and abiotic controls on long-term sediment flux in a northern Australian tropical river system. *Earth Surface Processes and Landforms* 44, 2494-2509. <http://doi.org/10.1002/esp.4652>

- Lauer, T., Frechen, M., Fischer, P., 2017. Luminescence dating of the Lower Middle Terrace site at Brühl, southern Lower Rhine Embayment – a first dating approach. *Zeitschrift der Deutschen Gesellschaft für Geowissenschaften* 168, 105-114. <http://doi.org/10.1127/zdgg/2017/0109>
- Lichtenberger, A., Raja, R., Seland, E.H., Kinnaird, T., Simpson, I.A., 2019. Urban-Riverine Hinterland Synergies in Semi-Arid Environments: Millennial-Scale Change, Adaptations, and Environmental Responses at Gerasa/Jerash. *Journal of Field Archaeology* 44, 333-351. <http://doi.org/10.1080/00934690.2019.1625619>
- Lu, H., Cheng, L., Wang, Z., Zhang, T., Lü, Y., Zhao, J., Li, Y., Zheng, X., 2018. Latest Quaternary rapid river incision across an inactive fold in the northern Chinese Tian Shan foreland. *Quaternary Science Reviews* 179, 167-181. <http://doi.org/10.1016/j.quascirev.2017.10.017>
- Lüthgens, C., Neuhuber, S., Grupe, S., Payer, T., Peresson, M., Fiebig, M., 2017. Geochronological investigations using a combination of luminescence and cosmogenic nuclide burial dating of drill cores from the Vienna Basin. *Zeitschrift der Deutschen Gesellschaft für Geowissenschaften* 168, 115-140. <http://doi.org/10.1127/zdgg/2017/0081>
- Mahadev, Singh, A.K., Jaiswal, M.K., 2019. Application of luminescence age models to heterogeneously bleached quartz grains from flood deposits in Tamilnadu, southern India: Reconstruction of past flooding. *Quaternary International* 513, 95-106. <http://doi.org/10.1016/j.quaint.2019.02.037>
- Murton, J.B., Bateman, M.D., Telka, A.M., Waller, R., Whiteman, C., Kuzmina, S., 2017. Early to mid Wisconsin fluvial deposits and palaeoenvironment of the Kidluit Formation, Tuktoyaktuk Coastlands, western Arctic Canada. *Permafrost and Periglacial Processes* 28, 523-533. <http://doi.org/10.1002/ppp.1946>
- Ramírez-Herrera, M.T., Gaidzik, K., Forman, S., Kostoglodov, V., Bürgmann, R., Johnson, C.W., 2018. Relating the long-term and short-term vertical deformation across a transect of the forearc in the central Mexican subduction zone. *Geosphere* 14, 419-439. <http://doi.org/10.1130/ges01446.1>
- Resmi, M.R., Achyuthan, H., 2018. Northeast monsoon variations during the Holocene inferred from palaeochannels and active channels of the Palar River basin, Southern Peninsular India. *The Holocene* 28, 895-913. <http://doi.org/10.1177/0959683617752839>
- Storozum, M.J., Mo, D., Wang, H., Ren, X., Zhang, Y., Kidder, T.R., 2017. Anthropogenic origins of a late Holocene, basin-wide unconformity in the middle reaches of the Yellow River, the Luoyang Basin, Henan Province, China. *Quaternary Research* 87, 423-441. <http://doi.org/10.1017/qua.2017.10>
- Townsend, K.F., Nelson, M.S., Rittenour, T.M., Pederson, J.L., 2019. Anatomy and evolution of a dynamic arroyo system, Kanab Creek, southern Utah, USA. *GSA Bulletin* 131, 2094-2109. <http://doi.org/10.1130/B35195.1>
- Vayssiére, A., Rué, M., Recq, C., Gardère, P., Thamó-Bozsó, E., Castanet, C., Virmoux, C., Gautier, E., 2019. Lateglacial changes in river morphologies of northwestern Europe: An example of a smooth response to climate forcing (Cher River, France). *Geomorphology* 342, 20-36. <http://doi.org/10.1016/j.geomorph.2019.05.019>
- Viveen, W., Zevallos-Valdivia, L., Sanjurjo-Sánchez, J., 2019. The influence of centennial-scale variations in the South American summer monsoon and base-level fall on Holocene fluvial systems in the Peruvian Andes. *Global and Planetary Change* 176, 1-22. <http://doi.org/10.1016/j.gloplacha.2019.03.001>
- Voinchet, P., Yin, G., Falguères, C., Liu, C., Han, F., Sun, X., Bahain, J.-J., 2019. Dating of the stepped quaternary fluvial terrace system of the Yellow River by electron spin resonance (ESR). *Quaternary Geochronology* 49, 278-282. <http://doi.org/10.1016/j.quageo.2018.08.001>
- Wang, F., Nian, X., Wang, J., Zhang, W., Peng, G., Ge, C., Dong, C., Qu, J., Li, D., 2018. Multiple dating approaches applied to the recent sediments in the Yangtze River (Changjiang) subaqueous delta. *The Holocene* 28, 858-866. <http://doi.org/10.1177/0959683617752847>
- Xiang, F., Huang, H., Ogg, J.G., Zhu, H., Kang, D., 2020. Quaternary sediment characteristics and paleoclimate implications of deposits in the Three Gorges and Yichang areas of the Yangtze River. *Geomorphology* 351, 106981. <http://doi.org/10.1016/j.geomorph.2019.106981>
- Yang, H., Yang, X., Huang, W., Li, A., Hu, Z., Huang, X., Yang, H., 2020. 10Be and OSL dating of Pleistocene fluvial terraces along the Hongshuiba River: Constraints on tectonic and climatic drivers for fluvial downcutting across the NE Tibetan Plateau margin, China. *Geomorphology* 348, 106884. <http://doi.org/10.1016/j.geomorph.2019.106884>
- Zhao, H., Liu, Z., Song, L., Wang, C., Li, S.-H., 2019. OSL dating of flood sediments in the North China Plain. *Quaternary Geochronology* 49, 101-107. <http://doi.org/10.1016/j.quageo.2018.07.010>

- glacial and periglacial

- Fisher, T.G., Horton, J., Lepper, K., Loope, H., 2018. Aeolian activity during Late Glacial time, with an example from Mongo, Indiana, USA. Canadian Journal of Earth Sciences 56, 175-182.  
<http://doi.org/10.1139/cjes-2018-0127>
- Gaar, D., Graf, H.R., Preusser, F., 2019. New chronological constraints on the timing of Late Pleistocene glacier advances in northern Switzerland. Quaternary Science Journal (Eiszeitalter & Gegenwart) 68, 53-73.  
<http://doi.org/10.5194/egqsj-68-53-2019>
- Levy, J.S., Rittenour, T.M., Fountain, A.G., O'Connor, J.E., 2017. Luminescence dating of paleolake deltas and glacial deposits in Garwood Valley, Antarctica: Implications for climate, Ross ice sheet dynamics, and paleolake duration. Geological Society of America Bulletin 129, 1071-1084.  
<http://doi.org/10.1130/B31539.1>
- Mendelová, M., Hein, A.S., Rodés, Á., Smedley, R.K., Xu, S., 2020. Glacier expansion in central Patagonia during the Antarctic Cold Reversal followed by retreat and stabilisation during the Younger Dryas. Quaternary Science Reviews 227, 106047. <http://doi.org/10.1016/j.quascirev.2019.106047>
- Möller, P., Benediktsson, Í.Ö., Anjar, J., Bennike, O., Bernhardson, M., Funder, S., Håkansson, L.M., Lemdahl, G., Licciardi, J.M., Murray, A.S., Seidenkrantz, M.-S., 2019. Data set on sedimentology, palaeoecology and chronology of Middle to Late Pleistocene deposits on the Taimyr Peninsula, Arctic Russia. Data in Brief 25, 104267. <http://doi.org/10.1016/j.dib.2019.104267>
- Nawaz Ali, S., Dubey, J., Morthekai, P., Sharma, A., Singh, R., Prizomwala, S., 2019. Climate forcing and the initiation of glacier advance during MIS-2 in the North Sikkim Himalaya, India. Journal of Asian Earth Sciences 174, 381-388. <http://doi.org/10.1016/j.jseaes.2019.02.005>
- Rana, N., Sharma, S., Ali, S.N., Singh, S., Shukla, A.D., 2019. Investigating the sensitivity of glaciers to climate variability since the MIS-2 in the upper Ganga catchment (Saraswati valley), Central Himalaya. Geomorphology 346, 106854. <http://doi.org/10.1016/j.geomorph.2019.106854>
- Rice, J.M., Ross, M., Paulen, R.C., Kelley, S.E., Briner, J.P., Neudorf, C.M., Lian, O.B., 2019. Refining the ice flow chronology and subglacial dynamics across the migrating Labrador Divide of the Laurentide Ice Sheet with age constraints on deglaciation. Journal of Quaternary Science 34, 519-535.  
<http://doi.org/10.1002/jqs.3138>
- Smedley, R.K., Buylaert, J.P., Ujvári, G., 2019. Comparing the accuracy and precision of luminescence ages for partially-bleached sediments using single grains of K-feldspar and quartz. Quaternary Geochronology 53, 101007. <http://doi.org/10.1016/j.quageo.2019.101007>
- Vandenbergh, J., French, H.M., Jin, H., Wang, X., Yi, S., He, R., 2019. The extent of permafrost during the Last Permafrost Maximum (LPM) on the Ordos Plateau, north China. Quaternary Science Reviews 214, 87-97. <http://doi.org/10.1016/j.quascirev.2019.04.019>

- lacustrine

- Adams, K.D., Rhodes, E.J., 2019. Late Holocene paleohydrology of Walker Lake and the Carson Sink in the western Great Basin, Nevada, USA. Quaternary Research 92, 165-182. <http://doi.org/10.1017/qua.2018.151>
- An, F., Lai, Z., Liu, X., Wang, Y., Chang, Q., Lu, B., Yang, X., 2018. Luminescence chronology and radiocarbon reservoir age determination of lacustrine sediments from the Hehai lake, Ne Qinghai-Tibetan Plateau and its paleoclimate implications. Journal of Earth Science 29, 695-706.  
<http://doi.org/10.1007/s12583-017-0972-9>
- Carr, A.S., Hay, A.S., Powell, D.M., Livingstone, I., 2019. Testing post-IR IRSL luminescence dating methods in the southwest Mojave Desert, California, USA. Quaternary Geochronology 49, 85-91.  
<http://doi.org/10.1016/j.quageo.2018.05.006>
- Chen, F., Feng, J.-L., Hu, H.-P., Zhang, J.-F., Gao, S.-P., Liu, X.-M., 2017. Potential forcing mechanisms of Holocene lake-level changes at Nam Co, Tibetan Plateau: Inferred from the stable isotopic composition of shells of the gastropod Radix. The Holocene 27, 594-604. <http://doi.org/10.1177/0959683616670247>
- Chen, T., Lai, Z., Liu, S., Wang, Y., Wang, Z.-t., Miao, X., An, F., Yu, L., Han, F., 2019. Luminescence chronology and palaeoenvironmental significance of limnic relics from the Badain Jaran Desert, northern China. Journal of Asian Earth Sciences 177, 240-249. <http://doi.org/10.1016/j.jseaes.2019.03.024>
- Cohen, T.J., Meyer, M.C., May, J.-H., 2018. Identifying extreme pluvials in the last millennia using optical dating of single grains of quartz from shorelines on Australia's largest lake. The Holocene 28, 150-165.  
<http://doi.org/10.1177/0959683617715700>
- Diaz, N., Armitage, S.J., Verrecchia, E.P., Herman, F., 2019. OSL dating of a carbonate island in the Chobe Enclave, NW Botswana. Quaternary Geochronology 49, 172-176.  
<http://doi.org/10.1016/j.quageo.2018.03.001>

- Lapointe, F., Francus, P., Stoner, J.S., Abbott, M.B., Balascio, N.L., Cook, T.L., Bradley, R.S., Forman, S.L., Besonen, M., St-Onge, G., 2019. Chronology and sedimentology of a new 2.9 ka annually laminated record from South Sawtooth Lake, Ellesmere Island. *Quaternary Science Reviews* 222, 105875. <http://doi.org/10.1016/j.quascirev.2019.105875>
- Long, H., Tsukamoto, S., Buylaert, J.-P., Murray, A.S., Jain, M., Frechen, M., 2019. Late Quaternary OSL chronologies from the Qinghai Lake (NE Tibetan Plateau): Inter-comparison of quartz and K-feldspar ages to assess the pre-depositional bleaching. *Quaternary Geochronology* 49, 159-164. <http://doi.org/10.1016/j.quageo.2018.05.003>
- Nowacki, D., Langan, C.C.M., Kadereit, A., Pint, A., Wunderlich, J., 2019. 'Lake Gorgana' - A paleolake in the Lower Danube Valley revealed using multi-proxy and regionalisation approaches. *Quaternary International* 511, 107-123. <http://doi.org/10.1016/j.quaint.2018.09.021>
- Pišková, A., Roman, M., Bulínová, M., Pokorný, M., Sanderson, D., Cresswell, A., Lirio, J.M., Coria, S.H., Nedbalová, L., Lami, A., Musazzi, S., Van de Vijver, B., Nývlt, D., Kopalová, K., 2019. Late-Holocene palaeoenvironmental changes at Lake Esmeralda (Vega Island, Antarctic Peninsula) based on a multi-proxy analysis of laminated lake sediment. *The Holocene* 29, 1155-1175. <http://doi.org/10.1177/0959683619838033>
- Valero-Garcés, B.L., González-Sampériz, P., Gil-Romera, G., Benito, B.M., Moreno, A., Oliva-Urcia, B., Aranbarri, J., García-Prieto, E., Frugone, M., Morellón, M., Arnold, L.J., Demuro, M., Hardiman, M., Blockley, S.P.E., Lane, C.S., 2019. A multi-dating approach to age-modelling long continental records: The 135 ka El Cañizar de Villarquemado sequence (NE Spain). *Quaternary Geochronology* 54, 101006. <http://doi.org/10.1016/j.quageo.2019.101006>
- Zhang, Y., Huang, C.C., Shulmeister, J., Guo, Y., Liu, T., Kemp, J., Patton, N.R., Liu, L., Chen, Y., Zhou, Q., Cuan, Y., Zhao, H., Wang, N., 2019. Formation and evolution of the Holocene massive landslide-dammed lakes in the Jishixia Gorges along the upper Yellow River: No relation to China's Great Flood and the Xia Dynasty. *Quaternary Science Reviews* 218, 267-280. <http://doi.org/10.1016/j.quascirev.2019.06.011>

- loess

- Barta, G., Bradák, B., Novothny, Á., Markó, A., Szeberényi, J., Kiss, K., Kovács, J., 2018. The influence of paleogeomorphology on the stable isotope signals of paleosols. *Geoderma* 330, 221-231. <http://doi.org/10.1016/j.geoderma.2018.05.033>
- Constantin, D., Veres, D., Panaiotu, C., Anechitei-Deacu, V., Groza, S.M., Begy, R., Kelemen, S., Buylaert, J.P., Hambach, U., Marković, S.B., Gerasimenko, N., Timar-Gabor, A., 2019. Luminescence age constraints on the Pleistocene-Holocene transition recorded in loess sequences across SE Europe. *Quaternary Geochronology* 49, 71-77. <http://doi.org/10.1016/j.quageo.2018.07.011>
- Li, X., Han, Z., Lu, H., Chen, Y., Li, Y., Yuan, X., Zhou, Y., Jiang, M., Lv, C., 2018. Onset of Xiashu loess deposition in southern China by 0.9 Ma and its implications for regional aridification. *Science China Earth Sciences* 61, 256-269. <http://doi.org/10.1007/s11430-017-9134-2>
- Li, Y., Song, Y., Yin, Q., Han, L., Wang, Y., 2019. Orbital and millennial northern mid-latitude westerlies over the last glacial period. *Climate Dynamics* 53, 3315-3324. <http://doi.org/10.1007/s00382-019-04704-5>
- Lü, T., Sun, J., Gong, Z., 2018. Optical dating of eolian deposits since the last interglacial along the northern margin of the Chinese Loess Plateau. *Journal of Asian Earth Sciences* 155, 154-163. <http://doi.org/10.1016/j.jseaes.2017.11.017>
- Qin, J., Zhou, L., 2018. Luminescence dating of the Zeketai loess section in the Ili Basin, northwestern China: Methodological considerations. *Journal of Asian Earth Sciences* 155, 146-153. <http://doi.org/10.1016/j.jseaes.2017.11.018>
- Su, Q., Kirby, E., Ren, Z., Zhang, P., Zhang, H., Manopkawee, P., Lei, Q., 2020. Chronology of the Yellow River terraces at Qingtong Gorge (NE Tibet): Insights into evolution of the Yellow River since the Middle Pleistocene. *Geomorphology* 349, 106889. <http://doi.org/10.1016/j.geomorph.2019.106889>
- Tian, S., Sun, J., Lü, L., Cao, M., Zhang, Z., Lü, T., 2019. Optically stimulated luminescence dating of late Quaternary loess deposits in the coastal region of North China: Provenance and paleoclimatic implications. *Quaternary Science Reviews* 218, 160-177. <http://doi.org/10.1016/j.quascirev.2019.06.022>
- Torre, G., Gaiero, D.M., Sawakuchi, A.O., Río, I.d., Coppo, R., 2019. Revisiting the chronology and environmental conditions for the accretion of late Pleistocene-early Holocene Pampean loess (Argentina). *Quaternary Science Reviews* 213, 105-119. <http://doi.org/10.1016/j.quascirev.2019.04.018>
- Wang, H., 2019. First preliminary evidence of Holocene loess in the Illinois River valley. *Quaternary Science Reviews* 216, 124-126. <http://doi.org/10.1016/j.quascirev.2019.06.018>

- Wang, L., Jia, J., Li, G., Li, Z., Wang, X., Chen, F., 2018. Fine-grained quartz OSL dating chronology of loess sequence from southern Tajikistan: Implications for climate change in arid central Asia during MIS 2. *Journal of Asian Earth Sciences* 155, 116-123. <http://doi.org/10.1016/j.jseas.2017.11.001>
- Wang, L., Jia, J., Zhao, H., Liu, H., Duan, Y., Xie, H., Zhang, D.D., Chen, F., 2019. Optical dating of Holocene paleosol development and climate changes in the Yili Basin, arid central Asia. *The Holocene* 29, 1068-1077. <http://doi.org/10.1177/0959683619831432>
- Wu, J., Lu, H., Yi, S., Xu, Z., Gu, Y., Liang, C., Cui, M., Sun, X., 2019. Establishing a high-resolution luminescence chronology for the Zhenbeitai sand-loess section at Yulin, North-Central China. *Quaternary Geochronology* 49, 78-84. <http://doi.org/10.1016/j.quageo.2018.03.013>
- Zha, X., Huang, C., Pang, J., Li, Y., Liu, J., Cuan, Y., Wang, N., 2019. Sedimentary records of holocene palaeomudflow events in Tianshui basin of the western Loess Plateau, China. *Quaternary International* 521, 129-137. <http://doi.org/10.1016/j.quaint.2019.06.027>
- Zhang, J., Li, S.-H., Sun, J., Hao, Q., 2018. Fake age hiatus in a loess section revealed by OSL dating of calcrete nodules. *Journal of Asian Earth Sciences* 155, 139-145. <http://doi.org/10.1016/j.jseas.2017.11.016>
- Zhang, Y., Chang Huang, C., Tan, Z., Chen, Y., Qiu, H., Huang, C., Li, Y., Zhang, Y., Li, X., Shulmeister, J., Patton, N., Liu, L., Zhu, Y., Wang, N., 2019. Prehistoric and historic overbank floods in the Luoyang Basin along the Luohe River, middle Yellow River basin, China. *Quaternary International* 521, 118-128. <http://doi.org/10.1016/j.quaint.2019.06.023>
- Zhao, Q., Ding, M., Peng, S., Zhang, W., Song, B., Zhou, R., Yue, J., Liang, M., Zhang, D., 2019. High resolution OSL dating of the late Quaternary loess from Central Shandong Mountains in eastern China and the paleoclimatic implications. *IOP Conference Series: Earth and Environmental Science* 349, 012037. <http://doi.org/10.1088/1755-1315/349/1/012037>

#### - marine

- López, G.I., Goodman-Tchernov, B.N., Porat, N., 2018. OSL over-dispersion: A pilot study for the characterisation of extreme events in the shallow marine realm. *Sedimentary Geology* 378, 35-51. <http://doi.org/10.1016/j.sedgeo.2018.09.002>

#### - meteorites

- Sears, D.W.G., Sehlke, A., Friedrich, J.M., Rivers, M.L., Ebel, D.S., 2018. X-ray computed tomography of extraterrestrial rocks eradicates their natural radiation record and the information it contains. *Meteoritics & Planetary Science* 53, 2624-2631. <http://doi.org/10.1111/maps.13183>

#### - soil

- Larsen, A., May, J.-H., Carah, X., 2019. Late Quaternary biotic and abiotic controls on long-term sediment flux in a northern Australian tropical river system. *Earth Surface Processes and Landforms* 44, 2494-2509. <http://doi.org/10.1002/esp.4652>
- Rashidi, Z., Sohbati, R., Karimi, A., Farpoor, M.H., Khormali, F., Thompson, W., Murray, A., 2019. Constraining the timing of palaeosol development in Iranian arid environments using OSL dating. *Quaternary Geochronology* 49, 92-100. <http://doi.org/10.1016/j.quageo.2018.04.006>
- Román-Sánchez, A., Reimann, T., Wallinga, J., Vanwalleghem, T., 2019. Bioturbation and erosion rates along the soil-hillslope conveyor belt, part 1: Insights from single-grain feldspar luminescence. *Earth Surface Processes and Landforms* 44, 2051-2065. <http://doi.org/10.1002/esp.4628>
- von Suchodoletz, H., Tinapp, C., Lauer, T., Glaser, B., Stäuble, H., Kühn, P., Zielhofer, C., 2019. Distribution of Chernozems and Phaeozems in Central Germany during the Neolithic period. *Quaternary International* 511, 166-184. <http://doi.org/10.1016/j.quaint.2017.10.041>

#### - surface exposure dating

- al Khasawneh, S., Murray, A., Abudanah, F., 2019. A first radiometric chronology for the Khatt Shebib megalithic structure in Jordan using the luminescence dating of rock surfaces. *Quaternary Geochronology* 49, 205-210. <http://doi.org/10.1016/j.quageo.2018.02.007>
- al Khasawneh, S., Murray, A., Thomsen, K., AbuAzizeh, W., Tarawneh, M., 2019. Dating a near eastern desert hunting trap (kite) using rock surface luminescence dating. *Archaeological and Anthropological Sciences* 11, 2109-2119. <http://doi.org/10.1007/s12520-018-0661-3>

- Brown, N.D., Moon, S., 2019. Revisiting erosion rate estimates from luminescence profiles in exposed bedrock surfaces using stochastic erosion simulations. *Earth and Planetary Science Letters* 528, 115842. <http://doi.org/10.1016/j.epsl.2019.115842>
- Gliganic, L.A., Meyer, M.C., Sohbati, R., Jain, M., Barrett, S., 2019. OSL surface exposure dating of a lithic quarry in Tibet: Laboratory validation and application. *Quaternary Geochronology* 49, 199-204. <http://doi.org/10.1016/j.quageo.2018.04.012>
- Lehmann, B., Herman, F., Valla, P.G., King, G.E., Biswas, R.H., 2019. Evaluating post-glacial bedrock erosion and surface exposure duration by coupling in situ optically stimulated luminescence and 10Be dating. *Earth Surface Dynamics* 7, 633-662. <http://doi.org/10.5194/esurf-7-633-2019>
- Liu, J., Cui, F., Murray, A.S., Sohbati, R., Jain, M., Gao, H., Li, W., Li, C., Li, P., Zhou, T., Chen, J., 2019. Resetting of the luminescence signal in modern riverbed cobbles along the course of the Shiyang River, China. *Quaternary Geochronology* 49, 184-190. <http://doi.org/10.1016/j.quageo.2018.04.004>
- Sellwood, E.L., Guralnik, B., Kook, M., Prasad, A.K., Sohbati, R., Hippe, K., Wallinga, J., Jain, M., 2019. Optical bleaching front in bedrock revealed by spatially-resolved infrared photoluminescence. *Scientific Reports* 9, 2611. <http://doi.org/10.1038/s41598-019-38815-0>
- Souza, P.E., Sohbati, R., Murray, A.S., Kroon, A., Clemmensen, L.B., Hede, M.U., Nielsen, L., 2019. Luminescence dating of buried cobble surfaces from sandy beach ridges: a case study from Denmark. *Boreas* 48, 841-855. <http://doi.org/10.1111/bor.12402>

- **tephra**

- K, G., Achyuthan, H., Jaiswal, M.K., 2019. The Toba tephra as a late Quaternary stratigraphic marker: Investigations in the Sagileru river basin, Andhra Pradesh, India. *Quaternary International* 513, 107-123. <http://doi.org/10.1016/j.quaint.2019.03.032>

- **volcanic**

- Ayala-Arenas, J.S., Cano, N.F., Rivera-Porras, M., Gonzales-Lorenzo, C.D., Watanabe, S., 2019. Dating volcanic ash and pumice stones from volcano El Misti, Peru, by thermoluminescence. *Quaternary International* 512, 1-5. <http://doi.org/10.1016/j.quaint.2018.11.013>
- Zawacki, E.E., Clarke, A.B., Arrowsmith, J.R., Bonadonna, C., Lynch, D.J., 2019. Tecolote volcano, Pinacate volcanic field (Sonora, Mexico): A case of highly explosive basaltic volcanism and shifting eruptive styles. *Journal of Volcanology and Geothermal Research* 379, 23-44. <http://doi.org/10.1016/j.jvolgeores.2019.04.011>

**Archaeology applications**

- al Khasawneh, S., Murray, A., Khalil, L., 2019. Luminescence dating of a transitional Chalcolithic/Bronze Age site in Jordan. *Archaeological and Anthropological Sciences* 11, 4347-4353. <http://doi.org/10.1007/s12520-019-00813-8>
- al Khasawneh, S., Murray, A., Thomsen, K., AbuAzizeh, W., Tarawneh, M., 2019. Dating a near eastern desert hunting trap (kite) using rock surface luminescence dating. *Archaeological and Anthropological Sciences* 11, 2109-2119. <http://doi.org/10.1007/s12520-018-0661-3>
- Anderson, S.L., Feathers, J.K., 2019. Applying luminescence dating of ceramics to the problem of dating Arctic archaeological sites. *Journal of Archaeological Science* 112, 105030. <http://doi.org/10.1016/j.jas.2019.105030>
- Antoine, P., Moncel, M.-H., Voinchet, P., Locht, J.-L., Amselem, D., Hérisson, D., Hurel, A., Bahain, J.-J., 2019. The earliest evidence of Acheulian occupation in Northwest Europe and the rediscovery of the Moulin Quignon site, Somme valley, France. *Scientific Reports* 9, 13091. <http://doi.org/10.1038/s41598-019-49400-w>
- Armitage, S.J., Krishna, A., Parker, L.E., King, G.E., 2019. Optically stimulated luminescence dating of heat retainer hearths from the Sahara: Insights into signal accumulation and measurement. *Quaternary Geochronology* 49, 249-253. <http://doi.org/10.1016/j.quageo.2018.03.004>
- Atlıhan, M.A., Koralay, T., Sahiner, E., 2018. Luminescence dating and mineralogical investigations of bricks from Erikli basilica in Stratonikeia ancient city (SW-Turkey). *Mediterranean Archaeology and Archaeometry* 18, 77-91. <http://doi.org/10.5281/zenodo.1069527>

- Bailiff, I.K., Jankowski, N., Gerrard, C.M., Gutiérrez, A., Wilkinson, K.N., 2019. Luminescence dating of sediment mounds associated with shaft and gallery irrigation systems. *Journal of Arid Environments* 165, 34-45. <http://doi.org/10.1016/j.jaridenv.2019.02.004>
- Bartz, M., Arnold, L.J., Demuro, M., Duval, M., King, G.E., Rixhon, G., Álvarez Posada, C., Parés, J.M., Brückner, H., 2019. Single-grain TT-OSL dating results confirm an Early Pleistocene age for the lower Moulouya River deposits (NE Morocco). *Quaternary Geochronology* 49, 138-145. <http://doi.org/10.1016/j.quageo.2018.04.007>
- Carter, T., Contreras, D.A., Holcomb, J., Mihailović, D.D., Karkanas, P., Guérin, G., Taffin, N., Athanasoulis, D., Lahaye, C., 2019. Earliest occupation of the Central Aegean (Naxos), Greece: Implications for hominin and *Homo sapiens*' behavior and dispersals. *Science Advances* 5, eaax0997. <http://doi.org/10.1126/sciadv.aax0997>
- Crassard, R., Hilbert, Y.H., Preusser, F., Wulf, G., Schiettecatte, J., 2019. Middle Palaeolithic occupations in central Saudi Arabia during MIS 5 and MIS 7: new insights on the origins of the peopling of Arabia. *Archaeological and Anthropological Sciences* 11, 3101-3120. <http://doi.org/10.1007/s12520-018-0743-2>
- Davis, L.G., Madsen, D.B., Becerra-Valdivia, L., Higham, T., Sisson, D.A., Skinner, S.M., Stueber, D., Nyers, A.J., Keen-Zebert, A., Neudorf, C., Cheyney, M., Izuhara, M., Iizuka, F., Burns, S.R., Epps, C.W., Willis, S.C., Buvit, I., 2019. Late Upper Paleolithic occupation at Cooper's Ferry, Idaho, USA, ~16,000 years ago. *Science* 365, 891-897. <http://doi.org/10.1126/science.aax9830>
- Demuro, M., Arnold, L.J., Aranburu, A., Gómez-Olivencia, A., Arsuaga, J.-L., 2019. Single-grain OSL dating of the Middle Palaeolithic site of Galería de las Estatuas, Atapuerca (Burgos, Spain). *Quaternary Geochronology* 49, 254-261. <http://doi.org/10.1016/j.quageo.2018.02.006>
- Duval, M., Fang, F., Suraprasit, K., Jaeger, J.-J., Benammi, M., Chaimanee, Y., Cibanal, J.I., Grün, R., 2019. Direct ESR dating of the Pleistocene vertebrate assemblage from Khok Sung locality, Nakhon Ratchasima Province, Northeast Thailand. *Palaeontologia Electronica* 22.3.69, 1-25. <http://doi.org/10.26879/941>
- Falguères, C., Ghaleb, B., Tombret, O., Ben Arous, E., Richard, M., Moigne, A.M., Saos, T., Frouin, M., Caparros, M., Barroso-Ruiz, C., 2019. ESR/U-series dates on Equus teeth from the Middle Pleistocene Acheulean site of Cueva del Angel, Spain. *Quaternary Geochronology* 49, 297-302. <http://doi.org/10.1016/j.quageo.2018.02.003>
- Feathers, J., More, G.M., Quinteros, P.S., Burkholder, J.E., 2019. IRSL dating of rocks and sediments from desert geoglyphs in coastal Peru. *Quaternary Geochronology* 49, 177-183. <http://doi.org/10.1016/j.quageo.2018.07.009>
- Groza, S.M., Hambach, U., Veres, D., Vulpoi, A., Händel, M., Einwögerer, T., Simon, U., Neugebauer-Maresch, C., Timar-Gabor, A., 2019. Optically stimulated luminescence ages for the Upper Palaeolithic site Krems-Wachtberg, Austria. *Quaternary Geochronology* 49, 242-248. <http://doi.org/10.1016/j.quageo.2018.04.005>
- Gueli, A.M., Garro, V., Pasquale, S., Stella, G., 2018. Chronology of the crypt of Sant'Agata La Vetere In Catania obtained by thermoluminescence. *Mediterranean Archaeology and Archaeometry* 18, 27-35. <http://doi.org/10.5281/zenodo.1069516>
- Guibert, P., Urbanová, P., Lanos, P., Prigent, D., 2018. The detection of material reuse in ancient construction What is the role of dating methods? *Ædificare: Revue internationale d'histoire de la construction* 2, 89-117. <http://doi.org/10.15122/isbn.978-2-406-09276-6.p.0089>
- Han, F., Shao, Q., Bahain, J.-J., Sun, X., Yin, G., 2019. Coupled ESR and U-series dating of Middle Pleistocene hominin site Bailongdong cave, China. *Quaternary Geochronology* 49, 291-296. <http://doi.org/10.1016/j.quageo.2018.02.004>
- Hu, Y., Marwick, B., Zhang, J.-F., Rui, X., Hou, Y.-M., Yue, J.-P., Chen, W.-R., Huang, W.-W., Li, B., 2019. Late Middle Pleistocene Levallois stone-tool technology in southwest China. *Nature* 565, 82-85. <http://doi.org/10.1038/s41586-018-0710-1>
- Jacobs, Z., Li, B., Shunkov, M.V., Kozlikin, M.B., Bolikhovskaya, N.S., Agadjanian, A.K., Uliyanov, V.A., Vasiliev, S.K., O'Gorman, K., Derevianko, A.P., Roberts, R.G., 2019. Timing of archaic hominin occupation of Denisova Cave in southern Siberia. *Nature* 565, 594-599. <http://doi.org/10.1038/s41586-018-0843-2>
- Javel, J.-B., Urbanová, P., Guibert, P., Gaillard, H., 2019. Chronological study of the Saint-Jean-Baptiste de la Cité chapel in Périgueux, France: the contribution of mortar luminescence dating to the history of local Christianity, in: Vecchiattini, R. (Ed.), *Archeologia dell'Architettura*, XXIV, 2019 – La datazione delle malte in architettura tra archeologia e archeometria. All'Insegna del Giglio, pp. 97-114. [www.insegnadelgiglio.it](http://www.insegnadelgiglio.it)
- Jin, J., Huang, Y., Zhang, Y., Li, Z., Fan, X., Ling, Z., Zheng, F., Cheng, Y., Xu, X., Li, Z., Zhang, W., 2019. Optically stimulated luminescence ages of the Hengyu site and their implications for anthropogenic

- activities in the Fuzhou Basin, South China. *Journal of Quaternary Science* 34, 548-557. <http://doi.org/10.1002/jqs.3143>
- Kadowaki, S., Tamura, T., Sano, K., Kurozumi, T., Maher, L.A., Wakano, J.Y., Omori, T., Kida, R., Hirose, M., Massadeh, S., Henry, D.O., 2019. Lithic technology, chronology, and marine shells from Wadi Aghar, southern Jordan, and Initial Upper Paleolithic behaviors in the southern inland Levant. *Journal of Human Evolution* 135, 102646. <http://doi.org/10.1016/j.jhevol.2019.102646>
- Kang, P.-Y., 2019. Age determination of the Neolithic Joohyondong Cave site in the Democratic People's Republic of Korea. *Journal of Archaeological Science: Reports* 24, 796-803. <http://doi.org/10.1016/j.jasrep.2019.02.014>
- Lahaye, C., Guérin, G., Gluchy, M., Hatté, C., Fontugne, M., Clemente-Conte, I., Santos, J.C., Villagran, X.S., Da Costa, A., Borges, C., Guidon, N., Boëda, E., 2019. Another site, same old song: The Pleistocene-Holocene archaeological sequence of Toca da Janela da Barra do Antonião-North, Piauí, Brazil. *Quaternary Geochronology* 49, 223-229. <http://doi.org/10.1016/j.quageo.2018.03.006>
- Łanczont, M., Madeyska, T., Hohub, B., Komar, M., Mroczek, P., Standzikowski, K., Valde-Nowak, P., Kraszewska, A., Cieśla, M., Skłucki, J., 2019. Late Glacial environment and human settlement of the Central Western Carpathians: A case study of the Nowa Biała 1 open-air site (Podhale Region, southern Poland). *Quaternary International* 512, 113-132. <http://doi.org/10.1016/j.quaint.2019.02.036>
- Lukich, V., Porat, N., Faershstein, G., Cowling, S., Chazan, M., 2019. New chronology and stratigraphy for Kathu Pan 6, South Africa. *Journal of Paleolithic Archaeology* 2, 235-257. <http://doi.org/10.1007/s41982-019-00031-7>
- Maíllo-Fernández, J.-M., Marín, J., Solano-Megías, I., Uribelarrea, D., Martín-Perea, D., Aramendi, J., Medialdea, A., Arteaga, C., Pernas-Hernández, M., Gidna, A., Neogi, S., Baudot, E., Narváez, C., Mabulla, A., 2019. Victoria Cabrera Site: A Middle Stone Age site at Olduvai Gorge, Tanzania. *Quaternary International* 526, 129-154. <http://doi.org/10.1016/j.quaint.2019.07.032>
- Mejia-Bernal, J.R., Ayala-Arenas, J.S., Cano, N.F., Rios-Orihuela, J.F., Gonzales-Lorenzo, C.D., Watanabe, S., 2020. Dating and determination of firing temperature of ancient potteries from Yumina archaeological site, Arequipa, Peru. *Applied Radiation and Isotopes* 155, 108930. <http://doi.org/10.1016/j.apradiso.2019.108930>
- Méndez-Quintas, E., Demuro, M., Arnold, L.J., Duval, M., Pérez-González, A., Santonja, M., 2019. Insights into the late stages of the Acheulean technocomplex of Western Iberia from the Arbo site (Galicia, Spain). *Journal of Archaeological Science: Reports* 27, 101934. <http://doi.org/10.1016/j.jasrep.2019.101934>
- Mercier, N., Martin, L., Kreutzer, S., Moineau, V., Cliquet, D., 2019. Dating the palaeolithic footprints of 'Le Rozel' (Normandy, France). *Quaternary Geochronology* 49, 271-277. <http://doi.org/10.1016/j.quageo.2017.12.005>
- Mien, N.Q., Bac, N.Q., Loat, B.V., Hung, V.A., 2019. Thermoluminescence and Radiocarbon Dates in the Brick Structures of GoThap Site in the Lower Mekong Delta Basin. *International Journal of Archaeology* 7, 17-23. <http://doi.org/10.11648/j.ija.20190701.13>
- Moreno, D., Duval, M., Rubio-Jara, S., Panera, J., Bahain, J.J., Shao, Q., Pérez-González, A., Falguères, C., 2019. ESR dating of Middle Pleistocene archaeo-paleontological sites from the Manzanares and Jarama river valleys (Madrid basin, Spain). *Quaternary International* 520, 23-38. <http://doi.org/10.1016/j.quaint.2017.09.003>
- Moroni, A., Boschian, G., Crezzini, J., Montanari-Canini, G., Marciani, G., Capecchi, G., Arrighi, S., Aureli, D., Berto, C., Freguglia, M., Araujo, A., Scaramucci, S., Hublin, J.J., Lauer, T., Benazzi, S., Parenti, F., Bonato, M., Ricci, S., Talamo, S., Segre, A.G., Boschin, F., Spagnolo, V., 2019. Late Neandertals in central Italy. High-resolution chronicles from Grotta dei Santi (Monte Argentario - Tuscany). *Quaternary Science Reviews* 217, 130-151. <http://doi.org/10.1016/j.quascirev.2018.11.021>
- Nasab, H.V., Berillon, G., Jamet, G., Hashemi, M., Jayez, M., Khaksar, S., Anvari, Z., Guérin, G., Heydari, M., Kharazian, M.A., Puaud, S., Bonilauri, S., Zeitoun, V., Sévêque, N., Khatoonji, J.D., Khaneghah, A.A., 2019. The open-air Paleolithic site of Mirak, northern edge of the Iranian Central Desert (Semnan, Iran): Evidence of repeated human occupations during the late Pleistocene. *Comptes Rendus Palevol* 18, 465-478. <http://doi.org/10.1016/j.crpv.2019.02.005>
- Noppradit, P., Symanczyk, A., Zöller, L., Brückner, H., Stock, F., 2019. Methodological approach for dating harbor sediments by using luminescence dating—a case study in Ephesus, Western Turkey. *Archaeological and Anthropological Sciences* 11, 3143-3153. <http://doi.org/10.1007/s12520-018-0739-y>
- Panzeri, L., Caroselli, M., Galli, A., Lugli, S., Martini, M., Sibilia, E., 2019. Mortar OSL and brick TL dating: The case study of the UNESCO world heritage site of Modena. *Quaternary Geochronology* 49, 236-241. <http://doi.org/10.1016/j.quageo.2018.03.005>

- Puttagan, T., Chawchai, S., Surakiatchai, P., Chalorsantisakul, S., Preusser, F., 2019. Luminescence dating of brick constructions being part of Songkhla City Wall, Southern Thailand. Archaeological and Anthropological Sciences 11, 5393-5403. <http://doi.org/10.1007/s12520-019-00878-5>
- Real, C., Eixea, A., Sanchis, A., Morales, J.V., Klasen, N., Zilhão, J., Villaverde, V., 2018. Abrigo de la Quebrada Level IV (Valencia, Spain): Interpreting a Middle Palaeolithic Palimpsest from a Zooarchaeological and Lithic Perspective. Journal of Paleolithic Archaeology <http://doi.org/10.1007/s41982-018-0012-z>
- Richard, M., Falguères, C., Pons-Branchu, E., Foliot, L., Guillem, P.M., Martínez-Valle, R., Eixea, A., Villaverde, V., 2019. ESR/U-series chronology of early Neanderthal occupations at Cova Negra (Valencia, Spain). Quaternary Geochronology 49, 283-290. <http://doi.org/10.1016/j.quageo.2018.05.004>
- Richard, M., Falguères, C., Valladas, H., Ghaleb, B., Pons-Branchu, E., Mercier, N., Richter, D., Conard, N.J., 2019. New electron spin resonance (ESR) ages from Geißenklösterle Cave: A chronological study of the Middle and early Upper Paleolithic layers. Journal of Human Evolution 133, 133-145. <http://doi.org/10.1016/j.jhevol.2019.05.014>
- Rodrigues, A.L., Dias, M.I., Valera, A.C., Rocha, F., Prudêncio, M.I., Marques, R., Cardoso, G., Russo, D., 2019. Geochemistry, luminescence and innovative dose rate determination of a Chalcolithic calcite-rich negative feature. Journal of Archaeological Science: Reports 26, 101887. <http://doi.org/10.1016/j.jasrep.2019.101887>
- Sahnouni, M., Parés, J.M., Duval, M., Cáceres, I., Harichane, Z., van der Made, J., Pérez-González, A., Abdessadok, S., Kandi, N., Derradji, A., Medig, M., Boulaghraif, K., Semaw, S., 2018. 1.9-million- and 2.4-million-year-old artifacts and stone tool-cutmarked bones from Ain Boucherit, Algeria. Science 362, 1297-1301. <http://doi.org/10.1126/science.aau0008>
- Sánchez-Pardo, J.C., Blanco-Rotea, R., Sanjurjo-Sánchez, J., Barrientos-Rodríguez, V., 2019. Reusing stones in medieval churches: a multidisciplinary approach to San Martiño de Armental (NW Spain). Archaeological and Anthropological Sciences 11, 2073-2096. <http://doi.org/10.1007/s12520-018-0655-1>
- Scerri, E.M.L., Shipton, C., Clark-Balzan, L., Frouin, M., Schwenninger, J.-L., Groucutt, H.S., Breeze, P.S., Parton, A., Blinkhorn, J., Drake, N.A., Jennings, R., Cuthbertson, P., Omari, A.A., Alsharekh, A.M., Petraglia, M.D., 2018. The expansion of later Acheulean hominins into the Arabian Peninsula. Scientific Reports 8, 17165. <http://doi.org/10.1038/s41598-018-35242-5>
- Schaarschmidt, M., Fu, X., Li, B., Marwick, B., Khaing, K., Douka, K., Roberts, R.G., 2019. pIRIR and IR-RF dating of archaeological deposits at Badahlin and Gu Myaung Caves – First luminescence ages for Myanmar. Quaternary Geochronology 49, 262-270. <http://doi.org/10.1016/j.quageo.2018.01.001>
- Schmidt, C., Anghelinu, M., Hambach, U., Veres, D., Lehmkühl, F., 2020. Reassessing the timeframe of Upper Palaeolithic deposits in the Ceahlău Basin (Eastern Carpathians, Romania): Geochronological and archaeological implications. Quaternary Geochronology 55, 101020. <http://doi.org/10.1016/j.quageo.2019.101020>
- Strebler, D., Brill, D., Richter, J., Brückner, H., 2019. Using DRAC in complex geometries - TL dating of heated flints from Taibeh, Jordan. Quaternary Geochronology 49, 4-7. <http://doi.org/10.1016/j.quageo.2018.07.002>
- Theodorakopoulou, K., Kyriopoulos, K., Stamoulis, K., Rizza, M., Athanassas, C.D., Sulpizio, R., Alçıçek, M.C., 2019. Chronological evidence for a pre-Minoan age of pyroclastic deposits on Anafi Island, Cyclades, Greece. Mediterranean Geoscience Reviews 1, 17-24. <http://doi.org/10.1007/s42990-019-00005-5>
- Urbanová, P., 2019. Luminescence dating of mortars by “single grain” procedure and its potential for building archaeology, in: Vecchiattini, R. (Ed.), Archeologia dell'Architettura, XXIV, 2019 – La datazione delle malte in architettura tra archeologia e archeometria. All’Insegna del Giglio, pp. 81-96. [www.insegnadelgiglio.it](http://www.insegnadelgiglio.it)
- Vejrostová, L., Lisá, L., Parma, D., Bajer, A., Hajnalová, M., Kočárová, R., Moska, P., Pacina, J., 2019. Human-induced prehistoric soil buried in the flood plain of Svratka River, Czech Republic. The Holocene 29, 565-577. <http://doi.org/10.1177/0959683618824785>
- Weiss, M., Lauer, T., Wimmer, R., Pop, C.M., 2018. The variability of the Keilmesser-concept: A case study from central Germany. Journal of Paleolithic Archaeology 1, 202-246. <http://doi.org/10.1007/s41982-018-0013-y>
- Wiśniewski, A., Lauer, T., Chłoń, M., Pyżewicz, K., Weiss, M., Badura, J., Kalicki, T., Zarzecka-Szubińska, K., 2019. Looking for provisioning places of shaped tools of the late Neanderthals: A study of a Micoquian open-air site, Pietraszyn 49a (southwestern Poland). Comptes Rendus Palevol 18, 367-389. <http://doi.org/10.1016/j.crpv.2019.01.003>

- Zander, A., Strebler, D., Classen, E., Rethemeyer, J., Brückner, H., 2019. Roman traces in Germania magna: New thermoluminescence and pIRIR290 data from a lime kiln at Bergisch Gladbach, Germany. *Archaeometry* 61, 506-518. <http://doi.org/10.1111/arcm.12435>
- Zhang, H., Chang, F., Li, H., Peng, G., Duan, L., Meng, H., Yang, X., Wei, Z., 2018. OSL and AMS 14C age of the most complete mammoth fossil skeleton from northeastern China and its paleoclimate significance. *Radiocarbon* 61, 347-358. <http://doi.org/10.1017/RDC.2018.48>
- Zhang, J.-F., Li, Y.-Y., Han, Y.-S., Wang, J.-K., 2019. Luminescence dating of weathered sediments from the Paleolithic site of Fengshuzui in northern Hunan province, China. *Quaternary Geochronology* 49, 211-217. <http://doi.org/10.1016/j.quageo.2018.07.003>
- Zhang, X.L., Ha, B.B., Wang, S.J., Chen, Z.J., Ge, J.Y., Long, H., He, W., Da, W., Nian, X.M., Yi, M.J., Zhou, X.Y., Zhang, P.Q., Jin, Y.S., Bar-Yosef, O., Olsen, J.W., Gao, X., 2018. The earliest human occupation of the high-altitude Tibetan Plateau 40 thousand to 30 thousand years ago. *Science* 362, 1049-1051. <http://doi.org/10.1126/science.aat8824>

### **Various ESR applications**

- Antoine, P., Moncel, M.-H., Voinchet, P., Locht, J.-L., Amselem, D., Hérisson, D., Hurel, A., Bahain, J.-J., 2019. The earliest evidence of Acheulian occupation in Northwest Europe and the rediscovery of the Moulin Quignon site, Somme valley, France. *Scientific Reports* 9, 13091. <http://doi.org/10.1038/s41598-019-49400-w>
- del Val, M., Duval, M., Medialdea, A., Bateman, M.D., Moreno, D., Arriolabengoa, M., Aranburu, A., Iriarte, E., 2019. First chronostratigraphic framework of fluvial terrace systems in the eastern Cantabrian margin (Bay of Biscay, Spain). *Quaternary Geochronology* 49, 108-114. <http://doi.org/10.1016/j.quageo.2018.07.001>
- Duval, M., Fang, F., Suraprasit, K., Jaeger, J.-J., Benammi, M., Chaimanee, Y., Cibanal, J.I., Grün, R., 2019. Direct ESR dating of the Pleistocene vertebrate assemblage from Khok Sung locality, Nakhon Ratchasima Province, Northeast Thailand. *Palaeontologia Electronica* 22.3.69, 1-25. <http://doi.org/10.26879/941>
- Falguères, C., Ghaleb, B., Tombret, O., Ben Arous, E., Richard, M., Moigne, A.M., Saos, T., Frouin, M., Caparros, M., Barroso-Ruiz, C., 2019. ESR/U-series dates on Equus teeth from the Middle Pleistocene Acheulean site of Cueva del Angel, Spain. *Quaternary Geochronology* 49, 297-302. <http://doi.org/10.1016/j.quageo.2018.02.003>
- Gao, H., Li, Z., Liu, F., Wu, Y., Li, P., Zhao, X., Li, F., Guo, J., Liu, C., Pan, B., Jia, H., 2020. Terrace formation and river valley development along the lower Taohe River in central China. *Geomorphology* 348, 106885. <http://doi.org/10.1016/j.geomorph.2019.106885>
- Garon, H., Voinchet, P., Bahain, J.-J., Despriée, J., Courcimault, G., Tissoux, H., Falguères, C., 2017. Datation ESR de quartz fluviatiles : nouvelles données chronologiques pour le secteur « intermédiaire » de la vallée de la Creuse (Indre, région Centre, France). *Quaternaire* 28, 73-85. <http://doi.org/10.4000/quaternaire.7838>
- Han, F., Shao, Q., Bahain, J.-J., Sun, X., Yin, G., 2019. Coupled ESR and U-series dating of Middle Pleistocene hominin site Bailongdong cave, China. *Quaternary Geochronology* 49, 291-296. <http://doi.org/10.1016/j.quageo.2018.02.004>
- Kaya-Keleş, Ş., Polymeris, G.S., Meriç, N., 2019. A component resolved study on the stable signal of Merck  $\alpha$ -quartz: Tentative correlation among TL peaks, OSL components and EPR signals. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 458, 44-56. <http://doi.org/10.1016/j.nimb.2019.07.029>
- Korsakova, O., Molodkov, A., Yelovicheva, Y., Kolka, V., 2019. Middle Pleistocene marine deposits on the Kola Peninsula (NW Russia). *Quaternary International* 509, 3-16. <http://doi.org/10.1016/j.quaint.2018.09.019>
- Mejia-Bernal, J.R., Ayala-Arenas, J.S., Cano, N.F., Rios-Orihuela, J.F., Gonzales-Lorenzo, C.D., Watanabe, S., 2020. Dating and determination of firing temperature of ancient potteries from Yumina archaeological site, Arequipa, Peru. *Applied Radiation and Isotopes* 155, 108930. <http://doi.org/10.1016/j.apradiso.2019.108930>
- Méndez-Quintas, E., Demuro, M., Arnold, L.J., Duval, M., Pérez-González, A., Santonja, M., 2019. Insights into the late stages of the Acheulean technocomplex of Western Iberia from the Arbo site (Galicia, Spain). *Journal of Archaeological Science: Reports* 27, 101934. <http://doi.org/10.1016/j.jasrep.2019.101934>
- Möller, P., Benediktsson, I.Ö., Anjar, J., Bennike, O., Bernhardson, M., Funder, S., Häkansson, L.M., Lemdahl, G., Licciardi, J.M., Murray, A.S., Seidenkrantz, M.-S., 2019. Data set on sedimentology, palaeoecology and chronology of Middle to Late Pleistocene deposits on the Taimyr Peninsula, Arctic Russia. *Data in Brief* 25, 104267. <http://doi.org/10.1016/j.dib.2019.104267>

- Moreno, D., Duval, M., Rubio-Jara, S., Panera, J., Bahain, J.J., Shao, Q., Pérez-González, A., Falguères, C., 2019. ESR dating of Middle Pleistocene archaeo-paleontological sites from the Manzanares and Jarama river valleys (Madrid basin, Spain). Quaternary International 520, 23-38.  
<http://doi.org/10.1016/j.quaint.2017.09.003>
- Richard, M., Falguères, C., Pons-Branchu, E., Foliot, L., Guillem, P.M., Martínez-Valle, R., Eixea, A., Villaverde, V., 2019. ESR/U-series chronology of early Neanderthal occupations at Cova Negra (Valencia, Spain). Quaternary Geochronology 49, 283-290. <http://doi.org/10.1016/j.quageo.2018.05.004>
- Richard, M., Falguères, C., Valladas, H., Ghaleb, B., Pons-Branchu, E., Mercier, N., Richter, D., Conard, N.J., 2019. New electron spin resonance (ESR) ages from Geißenklösterle Cave: A chronological study of the Middle and early Upper Paleolithic layers. Journal of Human Evolution 133, 133-145.  
<http://doi.org/10.1016/j.jhevol.2019.05.014>
- Sahnouni, M., Parés, J.M., Duval, M., Cáceres, I., Harichane, Z., van der Made, J., Pérez-González, A., Abdessadok, S., Kandi, N., Derradji, A., Medig, M., Boulaghraif, K., Semaw, S., 2018. 1.9-million- and 2.4-million-year-old artifacts and stone tool-cutmarked bones from Ain Boucherit, Algeria. Science 362, 1297-1301. <http://doi.org/10.1126/science.aau0008>
- Voinchet, P., Yin, G., Falguères, C., Liu, C., Han, F., Sun, X., Bahain, J.-J., 2019. Dating of the stepped quaternary fluvial terrace system of the Yellow River by electron spin resonance (ESR). Quaternary Geochronology 49, 278-282. <http://doi.org/10.1016/j.quageo.2018.08.001>
- Xiang, F., Huang, H., Ogg, J.G., Zhu, H., Kang, D., 2020. Quaternary sediment characteristics and paleoclimate implications of deposits in the Three Gorges and Yichang areas of the Yangtze River. Geomorphology 351, 106981. <http://doi.org/10.1016/j.geomorph.2019.106981>
- Yang, H.L., Chen, J., Yao, L., Liu, C.R., Shimamoto, T., Thompson Jobe, J.A., 2019. Resetting of OSL/TL/ESR signals by frictional heating in experimentally sheared quartz gouge at seismic slip rates. Quaternary Geochronology 49, 52-56. <http://doi.org/10.1016/j.quageo.2018.05.005>

### **Basic research**

- Arnold, L.J., Demuro, M., Spooner, N.A., Prideaux, G.J., McDowell, M.C., Camens, A.B., Reed, E.H., Parés, J.M., Arsuaga, J.L., Bermúdez de Castro, J.M., Carbonell, E., 2019. Single-grain TT-OSL bleaching characteristics: Insights from modern analogues and OSL dating comparisons. Quaternary Geochronology 49, 45-51. <http://doi.org/10.1016/j.quageo.2018.01.004>
- Chauhan, N., Singhvi, A.K., 2019. Changes in the optically stimulated luminescence (OSL) sensitivity of single grains of quartz during the measurement of natural OSL: Implications for the reliability of optical ages. Quaternary Geochronology 53, 101004. <http://doi.org/10.1016/j.quageo.2019.101004>
- Correcher, V., Garcia-Guinea, J., Boronat, C., Gómez-Ros, J.M., 2019. Radiation effect on the UV-green thermally stimulated luminescence emission of a natural Na-rich aluminosilicate. Radiation Physics and Chemistry 164, 108383. <http://doi.org/10.1016/j.radphyschem.2019.108383>
- Correcher, V., Garcia-Guinea, J., Rodriguez-Lazcano, Y., 2018. Thermally stimulated luminescence of a natural layered double hydroxide. Journal of Thermal Analysis and Calorimetry 133, 1253-1257.  
<http://doi.org/10.1007/s10973-018-7205-z>
- del Río, I., Sawakuchi, A.O., Giordano, D., Mineli, T.D., Nogueira, L., Abede, T., Atencio, D., 2019. Athermal stability, bleaching behavior and dose response of luminescence signals from almandine and kyanite. Ancient TL 37, 11-21. [http://ancienttl.org/ATL\\_37-1\\_2019/ATL\\_37-1\\_delRio\\_p11-1.pdf](http://ancienttl.org/ATL_37-1_2019/ATL_37-1_delRio_p11-1.pdf)
- Faershtein, G., Guralnik, B., Lambert, R., Matmon, A., Porat, N., 2018. Investigating the thermal stability of TT-OSL main source trap. Radiation Measurements 119, 102-111.  
<http://doi.org/10.1016/j.radmeas.2018.09.010>
- Faershtein, G., Porat, N., Matmon, A., 2019. Natural saturation of OSL and TT-OSL signals of quartz grains from Nilotic origin. Quaternary Geochronology 49, 146-152. <http://doi.org/10.1016/j.quageo.2018.04.002>
- Fiorentino, S., Vandini, M., Chinni, T., Caccia, M., Martini, M., Galli, A., 2019. Colourants and opacifiers of mosaic glass tesserae from Khirbet al-Mafjar (Jericho, Palestine): addressing technological issues by a multi-analytical approach and evaluating the potentialities of thermoluminescence and optically stimulated luminescence dating. Archaeological and Anthropological Sciences 11, 337-359.  
<http://doi.org/10.1007/s12520-017-0555-9>
- Friedrich, J., Kreutzer, S., Schmidt, C., 2018. Making the invisible visible: observing the UV-reversal effect in quartz using radiofluorescence. Journal of Physics D: Applied Physics 51, 335105.  
<http://doi.org/10.1088/1361-6463/aacfd0>

- Galli, A., Caccia, M., Martini, M., Panzeri, L., Maspero, F., Fiorentino, S., Vandini, M., Sibilia, E., 2019. Applying the “pre-bleached with blue LEDs” protocol to date Umayyad mosaic tesserae by thermoluminescence. Quaternary Geochronology 49, 218-222. <http://doi.org/10.1016/j.quageo.2018.05.014>
- Hu, G., Li, S.-H., 2019. Simplified procedures for optical dating of young sediments using quartz. Quaternary Geochronology 49, 31-38. <http://doi.org/10.1016/j.quageo.2018.03.009>
- Kaya-Keleş, Ş., Polymeris, G.S., Meriç, N., 2019. A component resolved study on the stable signal of Merck  $\alpha$ -quartz: Tentative correlation among TL peaks, OSL components and EPR signals. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms 458, 44-56. <http://doi.org/10.1016/j.nimb.2019.07.029>
- King, G.E., Burow, C., Roberts, H.M., Pearce, N.J.G., 2018. Age determination using feldspar: Evaluating fading-correction model performance. Radiation Measurements 119, 58-73. <http://doi.org/10.1016/j.radmeas.2018.07.013>
- Majgier, R., Biernacka, M., Palczewski, P., Mandowski, A., Polymeris, G.S., 2019. Investigation on thermally assisted optically stimulated luminescence (TA – OSL) signal in various sodium chloride samples. Applied Radiation and Isotopes 143, 98-106. <http://doi.org/10.1016/j.apradiso.2018.10.019>
- Mesady, I.A.E., 2019. Investigation on bleaching of infrared radiofluorescence signal with optimized power of LEDs to match the standard solar spectrum. International Journal of Advanced Research and Publications 3, 227-233. <http://www.ijarp.org/published-research-papers/june2019/Investigation-On-Bleaching-Of-Infrared-Radiofluorescence-Signal-With-Optimized-Power-Of-Leds-To-Match-The-Standard-Solar-Spectrum.pdf>
- Monti, A.M., Fasoli, M., Panzeri, L., Martini, M., 2019. Investigation of the spectrally resolved TL peaks of quartz in the 70°C–220°C temperature region. Radiation Measurements 127, 106141. <http://doi.org/10.1016/j.radmeas.2019.106141>
- Mortheikai, P., Biswas, R.H., Singhvi, A.K., 2019. Charge transport in band-tail states of irradiated alkali feldspar I: Super-Arrhenius kinetics. Physica B: Condensed Matter 561, 103-110. <http://doi.org/10.1016/j.physb.2019.03.002>
- Polymeris, G.S., Şahiner, E., Aşlar, E., Kıtış, G., Meriç, N., 2018. Deconvolution of isothermal TA – OSL decay curves from sedimentary quartz using combinations of various contemporary models. Radiation Measurements 119, 93-101. <http://doi.org/10.1016/j.radmeas.2018.09.009>
- Rui, X., Li, B., Guo, Y.J., Zhang, J.F., Yuan, B.Y., Xie, F., 2019. Variability in the thermal stability of OSL signal of single-grain quartz from the Nihewan Basin, North China. Quaternary Geochronology 49, 25-30. <http://doi.org/10.1016/j.quageo.2018.04.011>
- Schmidt, C., Simmank, O., Kreutzer, S., 2019. Time-resolved optically stimulated luminescence of quartz in the nanosecond time domain. Journal of Luminescence 213, 376-387. <http://doi.org/10.1016/j.jlumin.2019.05.042>
- Schmidt, C., Woda, C., 2019. Quartz thermoluminescence spectra in the high-dose range. Physics and Chemistry of Minerals 46, 861-875. <http://doi.org/10.1007/s00269-019-01046-w>
- Sellwood, E.L., Guralnik, B., Kook, M., Prasad, A.K., Sohbati, R., Hippe, K., Wallinga, J., Jain, M., 2019. Optical bleaching front in bedrock revealed by spatially-resolved infrared photoluminescence. Scientific Reports 9, 2611. <http://doi.org/10.1038/s41598-019-38815-0>
- Sfampa, I.K., Polymeris, G.S., Pagonis, V., Kıtış, G., 2019. Correlation between isothermal Tl and Irsl in K-Feldspars of various types. Radiation Physics and Chemistry 165, 108386. <http://doi.org/10.1016/j.radphyschem.2019.108386>
- Singh, L.L., Singh, A.N., 2017. An expression for the lifetime in second order kinetics. International Journal of Electronics, Electrical and Computational System 6, 524-528.
- Tribolo, C., Kreutzer, S., Mercier, N., 2019. How reliable are our beta-source calibrations? Ancient TL 37, 1-10. [http://ancienttl.org/ATL\\_37-1\\_2019/ATL\\_37-1\\_Tribolo\\_p1-10.pdf](http://ancienttl.org/ATL_37-1_2019/ATL_37-1_Tribolo_p1-10.pdf)
- Williams, O.M., Spooner, N.A., Smith, B.W., Moffatt, J.E., 2018. Extended duration optically stimulated luminescence in quartz. Radiation Measurements 119, 42-51. <http://doi.org/10.1016/j.radmeas.2018.09.005>
- Yang, H.L., Chen, J., Yao, L., Liu, C.R., Shimamoto, T., Thompson Jobe, J.A., 2019. Resetting of OSL/TL/ESR signals by frictional heating in experimentally sheared quartz gouge at seismic slip rates. Quaternary Geochronology 49, 52-56. <http://doi.org/10.1016/j.quageo.2018.05.005>
- Zhang, J., Li, S.-H., 2019. Constructions of standardised growth curves (SGCs) for IRSL signals from K-feldspar, plagioclase and polymineral fractions. Quaternary Geochronology 49, 8-15. <http://doi.org/10.1016/j.quageo.2018.05.015>

### **Dose rate issues**

- Diaz, N., Armitage, S.J., Verrecchia, E.P., Herman, F., 2019. OSL dating of a carbonate island in the Chobe Enclave, NW Botswana. *Quaternary Geochronology* 49, 172-176.  
<http://doi.org/10.1016/j.quageo.2018.03.001>
- Duval, M., Fang, F., Suraprasit, K., Jaeger, J.-J., Benammi, M., Chaimanee, Y., Cibanal, J.I., Grün, R., 2019. Direct ESR dating of the Pleistocene vertebrate assemblage from Khok Sung locality, Nakhon Ratchasima Province, Northeast Thailand. *Palaeontologia Electronica* 22.3.69, 1-25. <http://doi.org/10.26879/941>
- Moreno, D., Duval, M., Rubio-Jara, S., Panera, J., Bahain, J.J., Shao, Q., Pérez-González, A., Falguères, C., 2019. ESR dating of Middle Pleistocene archaeo-paleontological sites from the Manzanares and Jarama river valleys (Madrid basin, Spain). *Quaternary International* 520, 23-38.  
<http://doi.org/10.1016/j.quaint.2017.09.003>
- Rodrigues, A.L., Dias, M.I., Valera, A.C., Rocha, F., Prudêncio, M.I., Marques, R., Cardoso, G., Russo, D., 2019. Geochemistry, luminescence and innovative dose rate determination of a Chalcolithic calcite-rich negative feature. *Journal of Archaeological Science: Reports* 26, 101887.  
<http://doi.org/10.1016/j.jasrep.2019.101887>
- Strebler, D., Brill, D., Richter, J., Brückner, H., 2019. Using DRAC in complex geometries - TL dating of heated flints from Taibeh, Jordan. *Quaternary Geochronology* 49, 4-7.  
<http://doi.org/10.1016/j.quageo.2018.07.002>

### **Dosimetry**

- Jakathamani, S., Annalakshmi, O., Menon, S.N., Kadam, S.Y., Jose, M.T., Venkatraman, B., 2019. Ceramic resistors as optically stimulated luminescent retrospective dosimeters. *Radiation Physics and Chemistry* 165, 108436. <http://doi.org/10.1016/j.radphyschem.2019.108436>
- Majgier, R., Rääf, C.L., Mandowski, A., Bernhardsson, C., 2019. OSL properties in various forms of KCl and NaCl samples after exposure to ionizing radiation. *Radiation Protection Dosimetry* 184, 90-97.  
<http://doi.org/10.1093/rpd/ncy189>
- Waldner, L., Bernhardsson, C., 2018. Physical and dosimetric properties of NaCl pellets made in-house for the use in prospective optically stimulated luminescence dosimetry applications. *Radiation Measurements* 119, 52-57. <http://doi.org/10.1016/j.radmeas.2018.09.001>

### **Beyond quartz and K-feldspar: non-traditional minerals**

#### ***- almandine and kyanite***

- del Río, I., Sawakuchi, A.O., Giordano, D., Mineli, T.D., Nogueira, L., Abede, T., Atencio, D., 2019. Athermal stability, bleaching behavior and dose response of luminescence signals from almandine and kyanite. *Ancient TL* 37, 11-21. [http://ancienttl.org/ATL\\_37-1\\_2019/ATL\\_37-1\\_delRio\\_p11-1.pdf](http://ancienttl.org/ATL_37-1_2019/ATL_37-1_delRio_p11-1.pdf)

#### ***- flint***

- Schmidt, C., Anghelinu, M., Hambach, U., Veres, D., Lehmkuhl, F., 2020. Reassessing the timeframe of Upper Palaeolithic deposits in the Ceahlău Basin (Eastern Carpathians, Romania): Geochronological and archaeological implications. *Quaternary Geochronology* 55, 101020.  
<http://doi.org/10.1016/j.quageo.2019.101020>
- Strebler, D., Brill, D., Richter, J., Brückner, H., 2019. Using DRAC in complex geometries - TL dating of heated flints from Taibeh, Jordan. *Quaternary Geochronology* 49, 4-7.  
<http://doi.org/10.1016/j.quageo.2018.07.002>

### **Instruments**

- Autzen, M., Poolton, N.R.J., Murray, A.S., Kook, M., Buylaert, J.P., 2019. A new automated system for combined luminescence and exo-electron measurements. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 443, 90-99.  
<http://doi.org/10.1016/j.nimb.2019.01.030>
- Drew, S.M., Gross, D.S., Hollingsworth, W.E., Baraniak, T., Zall, C.M., Mann, K.R., 2019. Overdriven pulsed light emitting diodes: An inexpensive excitation source for time-resolved luminescence lifetime measurements. *Journal of Chemical Education* 96, 1046-1050.  
<http://doi.org/10.1021/acs.jchemed.8b01024>

- França, L.V.S., Oliveira, L.C., Baffa, O., 2019. Development of a thermoluminescence and radioluminescence integrated spectrometer. Measurement 134, 492-499. <http://doi.org/10.1016/j.measurement.2018.10.101>
- Pawlita, J., Tudyka, K., Bluszcz, A., Adamiec, G., 2019. A method of testing the uniformity of planar radioactive  $\alpha$  and  $\beta$  sources used in luminescence readers. Radiation Measurements 129, 106201. <http://doi.org/10.1016/j.radmeas.2019.106201>
- Prajapati, M.K., Singh, U., 2018. Theoretical study of laser stimulated thermoluminescence using CO<sub>2</sub> laser. International Journal of Current Engineering And Scientific Research 5, 456-459. <http://troindia.in/journal/ijcesr/vol5iss1part2/456-459.pdf>

**- portable instruments**

- Lichtenberger, A., Raja, R., Seland, E.H., Kinnaird, T., Simpson, I.A., 2019. Urban-Riverine Hinterland Synergies in Semi-Arid Environments: Millennial-Scale Change, Adaptations, and Environmental Responses at Gerasa/Jerash. Journal of Field Archaeology 44, 333-351. <http://doi.org/10.1080/00934690.2019.1625619>
- Porat, N., López, G.I., Lensky, N., Elinson, R., Avni, Y., Elgart-Sharon, Y., Faershstein, G., Gadot, Y., 2019. Using portable OSL reader to obtain a time scale for soil accumulation and erosion in archaeological terraces, the Judean Highlands, Israel. Quaternary Geochronology 49, 65-70. <http://doi.org/10.1016/j.quageo.2018.04.001>
- Rodrigues, A.L., Dias, M.I., Valera, A.C., Rocha, F., Prudêncio, M.I., Marques, R., Cardoso, G., Russo, D., 2019. Geochemistry, luminescence and innovative dose rate determination of a Chalcolithic calcite-rich negative feature. Journal of Archaeological Science: Reports 26, 101887. <http://doi.org/10.1016/j.jasrep.2019.101887>
- Stone, A., Bateman, M.D., Burrough, S.L., Garzanti, E., Limonta, M., Radeff, G., Telfer, M.W., 2019. Using a portable luminescence reader for rapid age assessment of aeolian sediments for reconstructing dunefield landscape evolution in southern Africa. Quaternary Geochronology 49, 57-64. <http://doi.org/10.1016/j.quageo.2018.03.002>
- Turner, S., Bolòs, J., Kinnaird, T., 2018. Changes and continuities in a Mediterranean landscape: a new interdisciplinary approach to understanding historic character in western Catalonia. Landscape Research 43, 922-938. <http://doi.org/10.1080/01426397.2017.1386778>

**Computer coding**

- Codilean, A.T., Munack, H., Cohen, T.J., Saktura, W.M., Gray, A., Mudd, S.M., 2018. OCTOPUS: an open cosmogenic isotope and luminescence database. Earth System Science Data 10, 2123-2139. <http://doi.org/10.5194/essd-10-2123-2018>
- Philippe, A., Guérin, G., Kreutzer, S., 2019. BayLum - An R package for Bayesian analysis of OSL ages: An introduction. Quaternary Geochronology 49, 16-24. <http://doi.org/10.1016/j.quageo.2018.05.009>
- Strebler, D., Riedesel, S., King, G., Brill, D., Brückner, H., 2019. LumReader: Designing your luminescence experiment with R. Radiation Measurements 129, 106143. <http://doi.org/10.1016/j.radmeas.2019.106143>

**Review**

- Chamberlain, E.L., Wallinga, J., 2019. Seeking enlightenment of fluvial sediment pathways by optically stimulated luminescence signal bleaching of river sediments and deltaic deposits. Earth Surface Dynamics 7, 723-736. <http://doi.org/10.5194/esurf-7-723-2019>
- Smedley, R.K., Skirrow, G.K.A., 2020. Luminescence Dating in Fluvial Settings: Overcoming the Challenge of Partial Bleaching, in: Herget, J., Fontana, A. (Eds.), Palaeohydrology: Traces, Tracks and Trails of Extreme Events. Springer International Publishing, Cham, pp. 155-168. [http://doi.org/10.1007/978-3-030-23315-0\\_8](http://doi.org/10.1007/978-3-030-23315-0_8)
- Urbanová, P., 2019. Luminescence dating of mortars by “single grain” procedure and its potential for building archaeology, in: Vecchiattini, R. (Ed.), Archeologia dell’Architettura, XXIV, 2019 – La datazione delle malte in architettura tra archeologia e archeometria. All’Insegna del Giglio, pp. 81-96. [www.insegnadelgiglio.it](http://www.insegnadelgiglio.it)

**Books**

- Handbook of Luminescence Dating. Edited by Mark D. Bateman. Whittles Publishing. 416pp. 2019. ISBN 978-184995-395-5