
Ancient TL

www.ancienttl.org · ISSN: 2693-0935

Ancient TL, 2019. *Bibliography*. Ancient TL 37(1): 26-37. <https://doi.org/10.26034/la.atl.2019.532>

This article is published under a *Creative Commons Attribution 4.0 International* (CC BY):
<https://creativecommons.org/licenses/by/4.0>



© Ancient TL, 2019

Bibliography

Compiled by Sebastien Huot

From 1st December 2018 to 15th May 2019

Various geological applications

- aeolian

- Baldauf, P.E., Burkhart, P.A., Hanson, P.R., Miles, M., Larsen, A., 2019. Chronology of dune development in the White River Badlands, northern Great Plains, USA. *Aeolian Research* 37, 14-24, <http://doi.org/10.1016/j.aeolia.2018.12.004>
- Barrineau, P., Dobrev, I., Bishop, M.P., Houser, C., Forman, S.L., 2019. Deconstructing aeolian landscapes. *CATENA* 174, 452-468, <http://doi.org/10.1016/j.catena.2018.11.038>
- Durcan, J.A., Thomas, D.S.G., Gupta, S., Pawar, V., Singh, R.N., Petrie, C.A., 2019. Holocene landscape dynamics in the Ghaggar-Hakra palaeochannel region at the northern edge of the Thar Desert, northwest India. *Quaternary International* 501, 317-327, <http://doi.org/10.1016/j.quaint.2017.10.012>
- Fulop, E.C.F., Johnson, B.G., Keen-Zebert, A., 2019. A geochronology-supported soil chronosequence for establishing the timing of shoreline parabolic dune stabilization. *CATENA* 178, 232-243, <http://doi.org/10.1016/j.catena.2019.03.018>
- Johnson, W.C., Halfen, A.F., Spencer, J.Q.G., Hanson, P.R., Mason, J.A., Young, A.R., 2019. Late MIS 3 stabilization of dunes in the eastern Central Great Plains, USA. *Aeolian Research* 36, 68-81, <http://doi.org/10.1016/j.aeolia.2018.12.002>
- Wang, X., Ma, J., Yi, S., Vandenberghe, J., Dai, Y., Lu, H., 2018. Interaction of fluvial and eolian sedimentation processes, and response to climate change since the last glacial in a semiarid environment along the Yellow River. *Quaternary Research* 91, 570-583, <http://doi.org/10.1017/qua.2018.22>
- Yan, D., Wünnemann, B., Zhang, Y., Long, H., Stauch, G., Sun, Q., Cao, G., 2018. Response of lake-catchment processes to Holocene climate variability: Evidences from the NE Tibetan Plateau. *Quaternary Science Reviews* 201, 261-279, <http://doi.org/10.1016/j.quascirev.2018.10.017>

- alluvial fan

- Yu, S.-Y., Du, J., Hou, Z., Shen, J., Colman, S.M., 2019. Late-Quaternary dynamics and palaeoclimatic implications of an alluvial fan-lake system on the southern Alxa Plateau, NW China. *Geomorphology* 327, 1-13, <http://doi.org/10.1016/j.geomorph.2018.10.012>

- coastal

- Carr, A.S., Bateman, M.D., Cawthra, H.C., Sealy, J., 2019. First evidence for onshore marine isotope stage 3 aeolianite formation on the southern Cape coastline of South Africa. *Marine Geology* 407, 1-15, <http://doi.org/10.1016/j.margeo.2018.10.003>
- Fruergaard, M., Kirkegaard, L., Østergaard, A.T., Murray, A.S., Andersen, T.J., 2019. Dune ridge progradation resulting from updrift coastal reconfiguration and increased littoral drift. *Geomorphology* 330, 69-80, <http://doi.org/10.1016/j.geomorph.2019.01.008>
- Makwana, N., Prizomwala, S.P., Chauhan, G., Phartiyal, B., Thakkar, M.G., 2019. Late Holocene palaeo-environmental change in the Banni Plains, Kachchh, Western India. *Quaternary International* 507, 197-205, <http://doi.org/10.1016/j.quaint.2018.11.028>

- colluvial

- Furbish, D.J., Roering, J.J., Keen-Zebert, A., Almond, P., Doane, T.H., Schumer, R., 2018. Soil Particle Transport and Mixing Near a Hillslope Crest: 2. Cosmogenic Nuclide and Optically Stimulated Luminescence Tracers. *Journal of Geophysical Research: Earth Surface* 123, 1078-1093, <http://doi.org/doi:10.1029/2017JF004316>
- 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>

- Poręba, G., Śnieszko, Z., Moska, P., Mroczek, P., 2019. Deposits of Neolithic water soil erosion in the loess region of the Małopolska Upland (S Poland) – A case study of the settlement micro-region in Bronocice. *Quaternary International* 502, 45-59, <http://doi.org/10.1016/j.quaint.2018.09.018>
- Poręba, G., Śnieszko, Z., Moska, P., Mroczek, P., Malik, I., 2019. Interpretation of soil erosion in a polish loess area using OSL, ¹³⁷Cs, ²¹⁰Pbex, dendrochronology and micromorphology - case study: Biedrzykowice site (s Poland). *Geochronometria* 46, 57-78, <http://doi.org/10.1515/geochr-2015-0109>

- earthquake (and fault related)

- Hindle, D., Sedov, B., Lindauer, S., Mackey, K., 2019. The Ulakhan fault surface rupture and the seismicity of the Okhotsk–North America plate boundary. *Solid Earth* 10, 561-580, <http://doi.org/10.5194/se-10-561-2019>
- van Vliet-Lanoë, B., Authemayou, C., Molliex, S., Field, M.H., Frechen, M., Le Roy, P., Perrot, J., Andrieu-Ponel, V., Grégoire, G., Hallégouët, B., 2018. Middle Pleistocene seismically induced clay diapirism in an intraplate zone, western Brittany, France. *Quaternary Research* 91, 301-324, <http://doi.org/10.1017/qua.2018.63>

- fluvial

- Abotalib, A.Z., Sultan, M., Jimenez, G., Crossey, L., Karlstrom, K., Forman, S., Krishnamurthy, R.V., Elkadiri, R., Polyak, V., 2019. Complexity of Saharan paleoclimate reconstruction and implications for modern human migration. *Earth and Planetary Science Letters* 508, 74-84, <http://doi.org/10.1016/j.epsl.2018.12.015>
- Armaş, I., Necea, D., Miclăuş, C., 2019. Fluvial terrace formation and controls in the Lower River Danube, SE Romania. *Quaternary International* 504, 5-23, <http://doi.org/10.1016/j.quaint.2018.03.031>
- Avşin, N., Vandenbergh, J., van Balen, R., Kıyak, N.G., Öztürk, T., 2019. Tectonic and climatic controls on Quaternary fluvial processes and river terrace formation in a Mediterranean setting, the Göksu River, southern Turkey. *Quaternary Research* 91, 533-547, <http://doi.org/10.1017/qua.2018.129>
- Cunha, P.P., Martins, A.A., Buylaert, J.-P., Murray, A.S., Gouveia, M.P., Font, E., Pereira, T., Figueiredo, S., Ferreira, C., Bridgland, D.R., Yang, P., Stevaux, J.C., Mota, R., 2019. The Lowermost Tejo River Terrace at Foz do Enxarrique, Portugal: A Palaeoenvironmental Archive from c. 60–35 ka and Its Implications for the Last Neanderthals in Westernmost Iberia. *Quaternary* 2, 3, <http://doi.org/10.3390/quat2010003>
- Durcan, J.A., Thomas, D.S.G., Gupta, S., Pawar, V., Singh, R.N., Petrie, C.A., 2019. Holocene landscape dynamics in the Ghaggar-Hakra palaeochannel region at the northern edge of the Thar Desert, northwest India. *Quaternary International* 501, 317-327, <http://doi.org/10.1016/j.quaint.2017.10.012>
- Ghosh, R., Srivastava, P., Shukla, U.K., Sehgal, R.K., Singh, I.B., 2019. 100 kyr sedimentary record of Marginal Gangetic Plain: Implications for forebulge tectonics. *Palaeogeography, Palaeoclimatology, Palaeoecology* 520, 78-95, <http://doi.org/10.1016/j.palaeo.2019.01.035>
- Kothyari, G.C., Shirvalkar, P., Kandregula, R.S., Rawat, Y., Dumka, R.K., Joshi, N., 2019. Holocene tectonic activity along Kachchh Mainland Fault: Impact on late mature Harappan civilization, Kachchh, western India. *Quaternary International* 507, 274-287, <http://doi.org/10.1016/j.quaint.2018.10.032>
- McCalpin, J.P., Corominas, J., 2019. Postglacial deformation history of sackungen on the northern slope of Pic d'Encampadana, Andorra. *Geomorphology* 337, 134-150, <http://doi.org/10.1016/j.geomorph.2019.04.007>
- McCool, J.-P., 2019. Carbonates as evidence for groundwater discharge to the Nile River during the Late Pleistocene and Holocene. *Geomorphology* 331, 4-21, <http://doi.org/10.1016/j.geomorph.2018.09.026>
- Ocañoğlu, F., Akkiraz, M.S., 2019. A Lower Pleistocene to Holocene terrestrial record from the Eskişehir Graben (Central Anatolia): Paleoclimatic and morphotectonic implications. *Quaternary International* 510, 88-99, <http://doi.org/10.1016/j.quaint.2018.12.026>
- Prizomwala, S.P., Yadav, G., Solanki, T., Das, A., Chauhan, G., Makwana, N., 2019. Style and stages of valley fill aggradation-incision cycles in the Northern Hill Range, Kachchh, Western India. *Quaternary International* 510, 18-27, <http://doi.org/10.1016/j.quaint.2018.11.020>
- Pupim, F.N., Sawakuchi, A.O., Almeida, R.P., Ribas, C.C., Kern, A.K., Hartmann, G.A., Chiessi, C.M., Tamura, L.N., Mineli, T.D., Savian, J.F., Grohmann, C.H., Bertassoli, D.J., Stern, A.G., Cruz, F.W., Cracraft, J., 2019. Chronology of Terra Firme formation in Amazonian lowlands reveals a dynamic Quaternary landscape. *Quaternary Science Reviews* 210, 154-163, <http://doi.org/10.1016/j.quascirev.2019.03.008>
- Rossetti, D.d.F., Gribel, R., Cohen, M.C.L., Valeriano, M.d.M., Tatumi, S.H., Yee, M., 2019. The role of Late Pleistocene-Holocene tectono-sedimentary history on the origin of patches of savanna vegetation in the middle Madeira River, southwest of the Amazonian lowlands. *Palaeogeography, Palaeoclimatology, Palaeoecology* 526, 136-156, <http://doi.org/10.1016/j.palaeo.2019.04.017>

- Sokołowski, R.J., Janowski, Ł., Hrynowiecka, A., Molodkov, A., 2019. Evolution of fluvial system during the Pleistocene warm stage (Marine Isotope Stage 7) – A case study from the Bładzikowo Formation, N Poland. *Quaternary International* 501, 109-119, <http://doi.org/10.1016/j.quaint.2017.09.042>
- Štor, T., Schaller, M., Merchel, S., Martínek, K., Rittenour, T., Rugel, G., Scharf, A., 2019. Quaternary evolution of the Ploučnice River system (Bohemian Massif) based on fluvial deposits dated with optically stimulated luminescence and in situ produced cosmogenic nuclides. *Geomorphology* 329, 152-169, <http://doi.org/10.1016/j.geomorph.2018.12.019>
- Vandenberghe, J., Kasse, C., Popov, D., Markovic, S.B., Vandenberghe, D., Bohncke, S., Gabris, G., 2018. Specifying the External Impact on Fluvial Lowland Evolution: The Last Glacial Tisza (Tisa) Catchment in Hungary and Serbia. *Quaternary* 1, 14, <http://doi.org/10.3390/quat1020014>
- Wang, X., Ma, J., Yi, S., Vandenberghe, J., Dai, Y., Lu, H., 2018. Interaction of fluvial and eolian sedimentation processes, and response to climate change since the last glacial in a semiarid environment along the Yellow River. *Quaternary Research* 91, 570-583, <http://doi.org/10.1017/qua.2018.22>
- Zieliński, P., Sokołowski, R.J., Jankowski, M., Standzikowski, K., Fedorowicz, S., 2019. The climatic control of sedimentary environment changes during the Weichselian – An example from the Middle Vistula Region (eastern Poland). *Quaternary International* 501, 120-134, <http://doi.org/10.1016/j.quaint.2018.04.036>

- glacial and periglacial

- Bradwell, T., Small, D., Fabel, D., Smedley, R.K., Clark, C.D., Saher, M.H., Callard, S.L., Chiverrell, R.C., Dove, D., Moreton, S.G., Roberts, D.H., Duller, G.A.T., Ó Cofaigh, C., 2019. Ice-stream demise dynamically conditioned by trough shape and bed strength. *Science Advances* 5, eaau1380, <http://doi.org/10.1126/sciadv.aau1380>
- García, J.-L., Maldonado, A., de Porras, M.E., Nuevo Delaunay, A., Reyes, O., Ebensperger, C.A., Binnie, S.A., Lüthgens, C., Méndez, C., 2018. Early deglaciation and paleolake history of Río Cisnes Glacier, Patagonian Ice Sheet (44°S). *Quaternary Research* 91, 194-217, <http://doi.org/10.1017/qua.2018.93>
- Gromig, R., Wagner, B., Wennrich, V., Fedorov, G., Savelieva, L., Lebas, E., Krastel, S., Brill, D., Andreev, A., Subetto, D., Melles, M., 2019. Deglaciation history of Lake Ladoga (northwestern Russia) based on varved sediments. *Boreas* 48, 330-348, <http://doi.org/10.1111/bor.12379>
- Roberts, D.H., Grimaldi, E., Callard, L., Evans, D.J.A., Clark, C.D., Stewart, H.A., Dove, D., Saher, M., Ó Cofaigh, C., Chiverrell, R.C., Bateman, M.D., Moreton, S.G., Bradwell, T., Fabel, D., Medialdea, A., 2019. The mixed-bed glacial landform imprint of the North Sea Lobe in the western North Sea. *Earth Surface Processes and Landforms* 44, 1233-1258, <http://doi.org/10.1002/esp.4569>
- Rother, H., Lorenz, S., Börner, A., Kenzler, M., Siermann, N., Fülling, A., Hrynowiecka, A., Forler, D., Kuznetsov, V., Maksimov, F., Starikova, A., 2019. The terrestrial Eemian to late Weichselian sediment record at Beckentin (NE-Germany): First results from lithostratigraphic, palynological and geochronological analyses. *Quaternary International* 501, 90-108, <http://doi.org/10.1016/j.quaint.2017.08.009>
- Sharma, S., Shukla, A.D., 2018. Factors governing the pattern of glacier advances since the Last Glacial Maxima in the transitional climate zone of the Southern Zaskar Ranges, NW Himalaya. *Quaternary Science Reviews* 201, 223-240, <http://doi.org/10.1016/j.quascirev.2018.10.006>
- Shulmeister, J., Thackray, G.D., Rittenour, T.M., Fink, D., Patton, N.R., 2019. The timing and nature of the last glacial cycle in New Zealand. *Quaternary Science Reviews* 206, 1-20, <http://doi.org/10.1016/j.quascirev.2018.12.020>
- Small, D., Smedley, R.K., Chiverrell, R.C., Scourse, J.D., Cofaigh, C.Ó., Duller, G.A.T., McCarron, S., Burke, M.J., Evans, D.J.A., Fabel, D., Gheorghiu, D.M., Thomas, G.S.P., Xu, S., Clark, C.D., 2018. Trough geometry was a greater influence than climate-ocean forcing in regulating retreat of the marine-based Irish-Sea Ice Stream. *GSA Bulletin* 130, 1981-1999, <http://doi.org/10.1130/b31852.1>
- Zhang, W., Chai, L., Evans, I.S., Liu, L., Li, Y.-p., Qiao, J.-r., Tang, Q.-y., Sun, B., 2019. Geomorphic features of Quaternary glaciation in the Taniantaweng Mountain, on the southeastern Qinghai-Tibet Plateau. *Journal of Mountain Science* 16, 256-274, <http://doi.org/10.1007/s11629-018-4977-3>

- lacustrine

- Andreev, A.A., Shumilovskikh, L.S., Savelieva, L.A., Gromig, R., Fedorov, G.B., Ludikova, A., Wagner, B., Wennrich, V., Brill, D., Melles, M., 2019. Environmental conditions in northwestern Russia during MIS 5 inferred from the pollen stratigraphy in a sediment core from Lake Ladoga. *Boreas* 48, 377-386, <http://doi.org/10.1111/bor.12382>

- Cadd, H.R., Tibby, J., Barr, C., Tyler, J., Unger, L., Leng, M.J., Marshall, J.C., McGregor, G., Lewis, R., Arnold, L.J., Lewis, T., Baldock, J., 2018. Development of a southern hemisphere subtropical wetland (Welsby Lagoon, south-east Queensland, Australia) through the last glacial cycle. *Quaternary Science Reviews* 202, 53-65, <http://doi.org/10.1016/j.quascirev.2018.09.010>
- Jacobs, Z., Li, B., Karkanas, P., Tourloukis, V., Thompson, N., Panagopoulou, E., Harvati, K., 2018. Optical dating of K-feldspar grains from Middle Pleistocene lacustrine sediment at Marathousa 1 (Greece). *Quaternary International* 497, 170-177, <http://doi.org/10.1016/j.quaint.2018.06.029>
- Roberts, H.M., Bryant, C.L., Huws, D.G., Lamb, H.F., 2018. Generating long chronologies for lacustrine sediments using luminescence dating: a 250,000 year record from Lake Tana, Ethiopia. *Quaternary Science Reviews* 202, 66-77, <http://doi.org/10.1016/j.quascirev.2018.10.037>
- Viehberg, F.A., Just, J., Dean, J.R., Wagner, B., Franz, S.O., Klasen, N., Kleinen, T., Ludwig, P., Asrat, A., Lamb, H.F., Leng, M.J., Rethemeyer, J., Milodowski, A.E., Claussen, M., Schäbitz, F., 2018. Environmental change during MIS4 and MIS 3 opened corridors in the Horn of Africa for *Homo sapiens* expansion. *Quaternary Science Reviews* 202, 139-153, <http://doi.org/10.1016/j.quascirev.2018.09.008>
- Yu, S.-Y., Du, J., Hou, Z., Shen, J., Colman, S.M., 2019. Late-Quaternary dynamics and palaeoclimatic implications of an alluvial fan-lake system on the southern Alxa Plateau, NW China. *Geomorphology* 327, 1-13, <http://doi.org/10.1016/j.geomorph.2018.10.012>

- loess

- Antoine, P., Lagroix, F., Jordanova, D., Jordanova, N., Lomax, J., Fuchs, M., Debret, M., Rousseau, D.-D., Hatté, C., Gauthier, C., Moine, O., Taylor, S.N., Till, J.L., Coutard, S., 2019. A remarkable Late Saalian (MIS 6) loess (dust) accumulation in the Lower Danube at Harletz (Bulgaria). *Quaternary Science Reviews* 207, 80-100, <http://doi.org/10.1016/j.quascirev.2019.01.005>
- Bösken, J., Obrecht, I., Zeeden, C., Klasen, N., Hambach, U., Sümegi, P., Lehmkuhl, F., 2019. High-resolution paleoclimatic proxy data from the MIS3/2 transition recorded in northeastern Hungarian loess. *Quaternary International* 502, 95-107, <http://doi.org/10.1016/j.quaint.2017.12.008>
- Fischer, P., Hambach, U., Klasen, N., Schulte, P., Zeeden, C., Steininger, F., Lehmkuhl, F., Gerlach, R., Radtke, U., 2019. Landscape instability at the end of MIS 3 in western Central Europe: evidence from a multi proxy study on a Loess-Palaeosol-Sequence from the eastern Lower Rhine Embayment, Germany. *Quaternary International* 502, 119-136, <http://doi.org/10.1016/j.quaint.2017.09.008>
- Lomax, J., Fuchs, M., Antoine, P., Rousseau, D.-D., Lagroix, F., Hatté, C., Taylor, S.N., Till, J.L., Debret, M., Moine, O., Jordanova, D., 2019. A luminescence-based chronology for the Harletz loess sequence, Bulgaria. *Boreas* 48, 179-194, <http://doi.org/doi:10.1111/bor.12348>
- Moska, P., Jary, Z., Adamiec, G., Bluszcz, A., 2019. Chronostratigraphy of a loess-palaeosol sequence in Biały Kościół, Poland using OSL and radiocarbon dating. *Quaternary International* 502, 4-17, <http://doi.org/10.1016/j.quaint.2018.05.024>
- Moska, P., Jary, Z., Adamiec, G., Bluszcz, A., 2019. High resolution dating of loess profile from Strzyżów (Horodło Plateau-Ridge, Volhynia Upland). *Quaternary International* 502, 18-29, <http://doi.org/10.1016/j.quaint.2018.02.016>
- Perić, Z., Lagerbäck Adolphi, E., Stevens, T., Újvári, G., Zeeden, C., Buylaert, J.-P., Marković, S.B., Hambach, U., Fischer, P., Schmidt, C., Schulte, P., Huayu, L., Shuangwen, Y., Lehmkuhl, F., Obrecht, I., Veres, D., Thiel, C., Frechen, M., Jain, M., Vött, A., Zöller, L., Gavrilov, M.B., 2019. Quartz OSL dating of late quaternary Chinese and Serbian loess: A cross Eurasian comparison of dust mass accumulation rates. *Quaternary International* 502, 30-44, <http://doi.org/10.1016/j.quaint.2018.01.010>
- Poręba, G., Śnieszko, Z., Moska, P., Mroczek, P., 2019. Deposits of Neolithic water soil erosion in the loess region of the Małopolska Upland (S Poland) – A case study of the settlement micro-region in Bronocice. *Quaternary International* 502, 45-59, <http://doi.org/10.1016/j.quaint.2018.09.018>
- Wang, L., Jia, J., Xia, D., Liu, H., Gao, F., Duan, Y., Wang, Q., Xie, H., Chen, F., 2019. Climate change in arid central Asia since MIS 2 revealed from a loess sequence in Yili Basin, Xinjiang, China. *Quaternary International* 502, 258-266, <http://doi.org/10.1016/j.quaint.2018.02.032>
- Zhou, Y., Han, Z., Li, X., Wang, Y., Lv, C., Jiang, M., Yang, Q., Xu, Z., Yi, S., Lu, H., 2018. Sandy Loess Records of Precipitation Changes and Monsoon Migrations in the Hunshandake Sandy Land Since the Last Glacial Maximum. *Paleoceanography and Paleoclimatology* 33, 945-957, <http://doi.org/10.1029/2018pa003339>

- marine

- De Deckker, P., Arnold, L.J., van der Kaars, S., Bayon, G., Stuut, J.-B.W., Perner, K., Lopes dos Santos, R., Uemura, R., Demuro, M., 2019. Marine Isotope Stage 4 in Australasia: A full glacial culminating 65,000 years ago – Global connections and implications for human dispersal. *Quaternary Science Reviews* 204, 187-207, <http://doi.org/10.1016/j.quascirev.2018.11.017>
- Kim, J.C., Chang, T.S., Yi, S., 2019. OSL chronology of the Huksan Mud Belt, south-eastern Yellow Sea, and its paleoenvironmental implications. *Quaternary International* 503, 170-177, <http://doi.org/10.1016/j.quaint.2018.12.001>

- surface exposure dating

- Liritzis, I., Bednarik, R.G., Kumar, G., Polymeris, G., Iliopoulos, I., Xanthopoulou, V., Zacharias, N., Vafiadou, A., Bratitsi, M., 2019. Daraki-Chattan rock art constrained osl chronology and multianalytical techniques: A first pilot investigation. *Journal of Cultural Heritage* 37, 29-43, <http://doi.org/10.1016/j.culher.2018.09.018>
- Luo, M., Chen, J., Liu, J., Qin, J., Owen, L.A., Han, F., Yang, H., Wang, H., Zhang, B., Yin, J., Li, Y., 2018. A test of rock surface luminescence dating using glaciofluvial boulders from the Chinese Pamir. *Radiation Measurements* 120, 290-297, <http://doi.org/10.1016/j.radmeas.2018.07.017>
- Meyer, M.C., Gliganic, L.A., Jain, M., Sohbati, R., Schmidmair, D., 2018. Lithological controls on light penetration into rock surfaces – Implications for OSL and IRSL surface exposure dating. *Radiation Measurements* 120, 298-304, <http://doi.org/10.1016/j.radmeas.2018.03.004>
- Ou, X.J., Roberts, H.M., Duller, G.A.T., Gunn, M.D., Perkins, W.T., 2018. Attenuation of light in different rock types and implications for rock surface luminescence dating. *Radiation Measurements* 120, 305-311, <http://doi.org/10.1016/j.radmeas.2018.06.027>
- Rades, E.F., Sohbati, R., Luthgens, C., Jain, M., Murray, A.S., 2018. First luminescence-depth profiles from boulders from moraine deposits: Insights into glaciation chronology and transport dynamics in Malta valley, Austria. *Radiation Measurements* 120, 281-289, <http://doi.org/10.1016/j.radmeas.2018.08.011>

- thermochronology

- Pagonis, V., Brown, N., 2019. On the unchanging shape of thermoluminescence peaks in preheated feldspars: Implications for temperature sensing and thermochronometry. *Radiation Measurements* 124, 19-28, <http://doi.org/10.1016/j.radmeas.2019.01.021>
- Yukihara, E.G., Coleman, A.C., Biswas, R.H., Lambert, R., Herman, F., King, G.E., 2018. Thermoluminescence analysis for particle temperature sensing and thermochronometry: Principles and fundamental challenges. *Radiation Measurements* 120, 274-280, <http://doi.org/10.1016/j.radmeas.2018.05.007>

Archaeology applications

- Alpers-Afil, N., Richter, D., Goren-Inbar, N., 2017. Evaluating the intensity of fire at the Acheulian site of Gesher Benot Ya'aqov—Spatial and thermoluminescence analyses. *PLOS ONE* 12, e0188091, <http://doi.org/10.1371/journal.pone.0188091>
- Anderson, A., 2019. Was there mid Holocene habitation in Madagascar? A reconsideration of the OSL dates from Lakaton'i Anja. *Antiquity* 93, 478-487, <http://doi.org/10.15184/aqy.2018.161>
- Demuro, M., Arnold, L.J., Aranburu, A., Sala, N., Arsuaga, J.-L., 2019. New bracketing luminescence ages constrain the Sima de los Huesos hominin fossils (Atapuerca, Spain) to MIS 12. *Journal of Human Evolution* 131, 76-95, <http://doi.org/10.1016/j.jhevol.2018.12.003>
- Doerschner, N., Fitzsimmons, K.E., Blasco, R., Finlayson, G., Rodríguez-Vidal, J., Rosell, J., Hublin, J.-J., Finlayson, C., 2019. Chronology of the Late Pleistocene archaeological sequence at Vanguard Cave, Gibraltar: Insights from quartz single and multiple grain luminescence dating. *Quaternary International* 501, 289-302, <http://doi.org/10.1016/j.quaint.2018.02.020>
- Hérisson, D., Airvaux, J., Lenoble, A., Richter, D., Claud, E., Primault, J., 2016. Between the northern and southern regions of Western Europe: The Acheulean site of La Grande Vallée (Colombiers, Vienne, France). *Quaternary International* 411, 108-131, <http://doi.org/10.1016/j.quaint.2015.12.100>
- Kehl, M., Álvarez-Alonso, D., de Andrés-Herrero, M., Díez-Herrero, A., Klasen, N., Rethemeyer, J., Weniger, G.-C., 2018. The rock shelter Abrigo del Molino (Segovia, Spain) and the timing of the late Middle Paleolithic in Central Iberia. *Quaternary Research* 90, 180-200, <http://doi.org/10.1017/qua.2018.13>

- Liritzis, I., Bednarik, R.G., Kumar, G., Polymeris, G., Iliopoulos, I., Xanthopoulou, V., Zacharias, N., Vafiadou, A., Bratitsi, M., 2019. Daraki-Chattan rock art constrained osl chronology and multianalytical techniques: A first pilot investigation. *Journal of Cultural Heritage* 37, 29-43, <http://doi.org/10.1016/j.culher.2018.09.018>
- Liritzis, I., Polymeris, G.S., Vafiadou, A., Sideris, A., Levy, T.E., 2019. Luminescence dating of stone wall, tomb and ceramics of Kastrouli (Phokis, Greece) Late Helladic settlement: Case study. *Journal of Cultural Heritage* 35, 76-85, <http://doi.org/10.1016/j.culher.2018.07.009>
- Masojć, M., Nassr, A., Kim, J.Y., Krupa-Kurzynowska, J., Sohn, Y.K., Szmit, M., Kim, J.C., Kim, J.S., Choi, H.W., Wiczorek, M., Timmermann, A., 2019. Saharan green corridors and Middle Pleistocene hominin dispersals across the Eastern Desert, Sudan. *Journal of Human Evolution* 130, 141-150, <http://doi.org/10.1016/j.jhevol.2019.01.004>
- Ocañoğlu, F., Dinçer, B., Akkiraz, M.S., Şahiner, E., Brook, G.A., 2018. Palaeolithic occupation of the Anatolian High Plateau during a cold period: An MIS 6 aged artifact from the Avlamiş Valley, Eskişehir, NW Turkey. *Geoarchaeology* 33, 605-619, <http://doi.org/10.1002/gea.21679>
- Rui, X., Guo, Y.-J., Zhang, J.-F., Hu, Y., Mei, H.-J., Wang, Y.-P., Xie, F., Li, B., 2019. Luminescence chronology of the Palaeolithic–Neolithic transition in the Yujiagou site at the Nihewan Basin, northern China. *Journal of Quaternary Science* 34, 125-137, <http://doi.org/10.1002/jqs.3086>
- Sanjurjo-Sánchez, J., Montero Fenollós, J.L., Polymeris, G.S., 2018. Technological aspects of Mesopotamian Uruk pottery: estimating firing temperatures using mineralogical methods, thermal analysis and luminescence techniques. *Archaeological and Anthropological Sciences* 10, 849-864, <http://doi.org/10.1007/s12520-016-0409-x>
- Williams, A.N., Toms, P.S., Marcus, D., Yousif, A., McGuinness, J., O'Sullivan, A., Barry, L., Bryant, T., Wood, J.C., 2019. The first successful application of Optically Stimulated Luminescence dating to a colonial era (<0.25 ka) archaeological site in Australia. *Journal of Archaeological Science: Reports* 24, 993-1002, <http://doi.org/10.1016/j.jasrep.2019.03.020>
- Williams, T.J., Collins, M.B., Rodrigues, K., Rink, W.J., Velchhoff, N., Keen-Zebert, A., Gilmer, A., Frederick, C.D., Ayala, S.J., Prewitt, E.R., 2018. Evidence of an early projectile point technology in North America at the Gault Site, Texas, USA. *Science Advances* 4, eaar5954, <http://doi.org/10.1126/sciadv.aar5954>

Various ESR applications

- Ahadova, A.S., Mammadov, S.G., Bayramov, M.A., 2019. Spectral Deconvolution of Fossil Tooth Enamel Electron Paramagnetic Resonance Spectrum. *World Scientific Research* 6, 1-4, <http://doi.org/10.20448/>
- Bi, W., Yi, C., Yang, H., 2018. Quantitative relation between the ESR signal intensities in Ge and E' centers and quartz mass. *Radiation Measurements* 120, 66-72, <http://doi.org/10.1016/j.radmeas.2018.04.007>
- Gonzales, C.A.B., Yasuda, H., Hirota, S., Miki, K., Saito, A., Taño, J.E., Nagata, Y., 2019. Investigation of the applicability of the ESR nail dosimetry for assessment of accidental exposure in medical facilities. *Radiation Measurements* 124, 91-97, <http://doi.org/10.1016/j.radmeas.2019.03.015>
- Mashkovtsev, R.I., Pan, Y., 2018. EPR study of new E' centers in neutron-irradiated α -quartz. *EPL (Europhysics Letters)* 124, 54001, <http://doi.org/10.1209/0295-5075/124/54001>
- Meriç, N., Aşlar, E., Şahiner, E., Kadioğlu, Y.K., Polymeris, G.S., 2018. Step annealing and fading studies on EPR signals of Durango apatite for various grain size fractions at the edge of the nano-scale; comparison with the corresponding luminescence results. *Radiation Measurements* 120, 241-246, <http://doi.org/10.1016/j.radmeas.2018.05.001>
- Timar-Gabor, A., 2018. Electron spin resonance characterisation of sedimentary quartz of different grain sizes. *Radiation Measurements* 120, 59-65, <http://doi.org/10.1016/j.radmeas.2018.06.023>
- Tsukamoto, S., Long, H., Richter, M., Li, Y., King, G.E., He, Z., Yang, L., Zhang, J., Lambert, R., 2018. Quartz natural and laboratory ESR dose response curves: A first attempt from Chinese loess. *Radiation Measurements* 120, 137-142, <http://doi.org/10.1016/j.radmeas.2018.09.008>
- Zhang, W., Chai, L., Evans, I.S., Liu, L., Li, Y.-p., Qiao, J.-r., Tang, Q.-y., Sun, B., 2019. Geomorphic features of Quaternary glaciation in the Taniantaweng Mountain, on the southeastern Qinghai-Tibet Plateau. *Journal of Mountain Science* 16, 256-274, <http://doi.org/10.1007/s11629-018-4977-3>

Basic research

- Anechitei-Deacu, V., Timar-Gabor, A., Thomsen, K.J., Buylaert, J.P., Jain, M., Bailey, M., Murray, A.S., 2018. Single and multi-grain OSL investigations in the high dose range using coarse quartz. *Radiation Measurements* 120, 124-130, <http://doi.org/10.1016/j.radmeas.2018.06.008>

- Ankjærgaard, C., 2019. Exploring multiple-aliquot methods for quartz violet stimulated luminescence dating. *Quaternary Geochronology* 51, 99-109, <http://doi.org/10.1016/j.quageo.2019.02.001>
- Antohi-Trandafir, O., Timar-Gabor, A., Vulpoi, A., Bălc, R., Longman, J., Veres, D., Simon, S., 2018. Luminescence properties of natural muscovite relevant to optical dating of contaminated quartz samples. *Radiation Measurements* 109, 1-7, <http://doi.org/10.1016/j.radmeas.2017.12.004>
- Autzen, M., Murray, A.S., Guérin, G., Baly, L., Ankjærgaard, C., Bailey, M., Jain, M., Buylaert, J.P., 2018. Luminescence dosimetry: Does charge imbalance matter? *Radiation Measurements* 120, 26-32, <http://doi.org/10.1016/j.radmeas.2018.08.001>
- Bailiff, I.K., 2018. An examination of beta dose attenuation effects in coarse grains located in sliced samples. *Radiation Measurements* 120, 188-194, <http://doi.org/10.1016/j.radmeas.2018.07.015>
- Bi, W., Yi, C., Yang, H., 2018. Quantitative relation between the ESR signal intensities in Ge and E' centers and quartz mass. *Radiation Measurements* 120, 66-72, <http://doi.org/10.1016/j.radmeas.2018.04.007>
- Bossin, L., Bailiff, I.K., Terry, I., 2018. Phototransferred TL properties of alumina substrates. *Radiation Measurements* 120, 41-46, <http://doi.org/10.1016/j.radmeas.2018.07.018>
- Bu, M., Murray, A.S., Kook, M., Helsted, L.M., Buylaert, J.-P., Thomsen, K.J., 2018. Characterisation of scintillator-based gamma spectrometers for determination of sample dose rate in OSL dating applications. *Radiation Measurements* 120, 253-259, <http://doi.org/10.1016/j.radmeas.2018.07.003>
- Buylaert, J.P., Újvári, G., Murray, A.S., Smedley, R.K., Kook, M., 2018. On the relationship between K concentration, grain size and dose in feldspar. *Radiation Measurements* 120, 181-187, <http://doi.org/10.1016/j.radmeas.2018.06.003>
- Carter, J., Cresswell, A.J., Kinnaird, T.C., Carmichael, L.A., Murphy, S., Sanderson, D.C.W., 2018. Non-Poisson variations in photomultipliers and implications for luminescence dating. *Radiation Measurements* 120, 267-273, <http://doi.org/10.1016/j.radmeas.2018.05.010>
- Chamberlain, E.L., Wallinga, J., Shen, Z., 2018. Luminescence age modeling of variably-bleached sediment: Model selection and input. *Radiation Measurements* 120, 221-227, <http://doi.org/10.1016/j.radmeas.2018.06.007>
- Chithambo, M.L., Kalita, J.M., 2018. Optically stimulated luminescence of ultra-high molecular weight polyethylene: A study of dosimetric features. *Radiation Measurements* 120, 78-82, <http://doi.org/10.1016/j.radmeas.2018.06.006>
- Christophe, C., Philippe, A., Guérin, G., Mercier, N., Guibert, P., 2018. Bayesian approach to OSL dating of poorly bleached sediment samples: Mixture Distribution Models for Dose (MD2). *Radiation Measurements* 108, 59-73, <http://doi.org/10.1016/j.radmeas.2017.10.007>
- Chruścińska, A., 2019. Advantages and limitations of stimulation with band shape modulation in OSL measurements. *Radiation Measurements* 124, 63-68, <http://doi.org/10.1016/j.radmeas.2019.03.009>
- Chruścińska, A., Szramowski, A., 2018. Thermally modulated OSL related to the fast component of the OSL signal in quartz. *Radiation Measurements* 120, 20-25, <http://doi.org/10.1016/j.radmeas.2018.05.011>
- Colarossi, D., Chapot, M.S., Duller, G.A.T., Roberts, H.M., 2018. Testing single aliquot regenerative dose (SAR) protocols for violet stimulated luminescence. *Radiation Measurements* 120, 104-109, <http://doi.org/10.1016/j.radmeas.2018.02.005>
- Colarossi, D., Duller, G.A.T., Roberts, H.M., 2018. Exploring the behaviour of luminescence signals from feldspars: Implications for the single aliquot regenerative dose protocol. *Radiation Measurements* 109, 35-44, <http://doi.org/10.1016/j.radmeas.2017.07.005>
- Cresswell, A.J., Carter, J., Sanderson, D.C.W., 2018. Dose rate conversion parameters: Assessment of nuclear data. *Radiation Measurements* 120, 195-201, <http://doi.org/10.1016/j.radmeas.2018.02.007>
- Cunningham, A.C., Murray, A.S., Armitage, S.J., Autzen, M., 2018. High-precision natural dose rate estimates through beta counting. *Radiation Measurements* 120, 209-214, <http://doi.org/10.1016/j.radmeas.2018.04.008>
- Dawam, R.R., Chithambo, M.L., 2018. Thermoluminescence of annealed synthetic quartz: The influence of annealing on kinetic parameters and thermal quenching. *Radiation Measurements* 120, 47-52, <http://doi.org/10.1016/j.radmeas.2018.06.004>
- Discher, M., Mauz, B., Martin, L., Durcan, J.A., King, G.E., Tsakalos, E., Christodoulakis, J., Lang, A., 2018. Calculating or simulating the dose rate? A comparison. *Radiation Measurements* 120, 202-208, <http://doi.org/10.1016/j.radmeas.2018.09.006>
- Durcan, J.A., 2018. Assessing the reproducibility of quartz OSL lifetime determinations derived using isothermal decay. *Radiation Measurements* 120, 234-240, <http://doi.org/10.1016/j.radmeas.2018.06.020>
- Folley, D.E., Chithambo, M.L., 2018. Influence of annealing on thermoluminescence of natural quartz: Kinetic analysis and experimental study of apparent inverse thermal quenching. *Radiation Measurements* 120, 53-58, <http://doi.org/10.1016/j.radmeas.2018.04.010>

- Friedrich, J., Kreutzer, S., Schmidt, C., 2018. Radiofluorescence as a detection tool for quartz luminescence quenching processes. *Radiation Measurements* 120, 33-40, <http://doi.org/10.1016/j.radmeas.2018.03.008>
- Hansen, V., Murray, A., Thomsen, K., Jain, M., Autzen, M., Buylaert, J.-P., 2018. Towards the origins of over-dispersion in beta source calibration. *Radiation Measurements* 120, 157-162, <http://doi.org/10.1016/j.radmeas.2018.05.014>
- Heydari, M., Guérin, G., 2018. OSL signal saturation and dose rate variability: Investigating the behaviour of different statistical models. *Radiation Measurements* 120, 96-103, <http://doi.org/10.1016/j.radmeas.2018.05.005>
- Hunter, P.G., Spooner, N.A., Smith, B.W., 2018. Thermoluminescence emission from quartz at 480 nm as a high-dose radiation marker. *Radiation Measurements* 120, 143-147, <http://doi.org/10.1016/j.radmeas.2018.04.001>
- Kabacińska, Z., Krzysiniowski, R., Tadzysak, K., Coy, E., 2019. Generation of UV-induced radiation defects in calcite. *Quaternary Geochronology* 51, 24-42, <http://doi.org/10.1016/j.quageo.2019.01.002>
- Kook, M., Kumar, R., Murray, A.S., Thomsen, K.J., Jain, M., 2018. Instrumentation for the non-destructive optical measurement of trapped electrons in feldspar. *Radiation Measurements* 120, 247-252, <http://doi.org/10.1016/j.radmeas.2018.06.001>
- Kreutzer, S., Martin, L., Dubernet, S., Mercier, N., 2018. The IR-RF alpha-Efficiency of K-feldspar. *Radiation Measurements* 120, 148-156, <http://doi.org/10.1016/j.radmeas.2018.04.019>
- Kröninger, K., Mentzel, F., Theinert, R., Walbersloh, J., 2019. A machine learning approach to glow curve analysis. *Radiation Measurements* 125, 34-39, <http://doi.org/10.1016/j.radmeas.2019.02.015>
- Kumar, R., Kook, M., Murray, A.S., Jain, M., 2018. Towards direct measurement of electrons in metastable states in K-feldspar: Do infrared-photoluminescence and radioluminescence probe the same trap? *Radiation Measurements* 120, 7-13, <http://doi.org/10.1016/j.radmeas.2018.06.018>
- Lamothe, M., Forget Brisson, L., Hardy, F., 2018. Dose recovery performance in double IRSL/pIRIR SAR protocols. *Radiation Measurements* 120, 120-123, <http://doi.org/10.1016/j.radmeas.2018.05.003>
- Lawless, J.L., Chen, R., Pagonis, V., 2019. Thermoluminescence governed by the Auger-recombination process. *Radiation Measurements* 124, 40-47, <http://doi.org/10.1016/j.radmeas.2019.03.002>
- Li, Y., Tsukamoto, S., Long, H., Zhang, J., Yang, L., He, Z., Frechen, M., 2018. Testing the reliability of fading correction methods for feldspar IRSL dating: A comparison between natural and simulated-natural dose response curves. *Radiation Measurements* 120, 228-233, <http://doi.org/10.1016/j.radmeas.2018.06.025>
- Luo, M., Chen, J., Liu, J., Qin, J., Owen, L.A., Han, F., Yang, H., Wang, H., Zhang, B., Yin, J., Li, Y., 2018. A test of rock surface luminescence dating using glaciofluvial boulders from the Chinese Pamir. *Radiation Measurements* 120, 290-297, <http://doi.org/10.1016/j.radmeas.2018.07.017>
- Mashkovtsev, R.I., Pan, Y., 2018. EPR study of new E' centers in neutron-irradiated α -quartz. *EPL (Europhysics Letters)* 124, 54001, <http://doi.org/10.1209/0295-5075/124/54001>
- Merezhnikov, A.S., Nikiforov, S.V., Pagonis, V., 2019. Simulation of TL kinetics in complex trap cluster systems: Some new approaches. *Radiation Measurements* 125, 78-84, <http://doi.org/10.1016/j.radmeas.2019.04.021>
- Meriç, N., Aşlar, E., Şahiner, E., Kadioğlu, Y.K., Polymeris, G.S., 2018. Step annealing and fading studies on EPR signals of Durango apatite for various grain size fractions at the edge of the nano-scale; comparison with the corresponding luminescence results. *Radiation Measurements* 120, 241-246, <http://doi.org/10.1016/j.radmeas.2018.05.001>
- Meyer, M.C., Gliganic, L.A., Jain, M., Sohbat, R., Schmidmair, D., 2018. Lithological controls on light penetration into rock surfaces – Implications for OSL and IRSL surface exposure dating. *Radiation Measurements* 120, 298-304, <http://doi.org/10.1016/j.radmeas.2018.03.004>
- Murari, M.K., Kreutzer, S., Fuchs, M., 2018. Further investigations on IR-RF: Dose recovery and correction. *Radiation Measurements* 120, 110-119, <http://doi.org/10.1016/j.radmeas.2018.04.017>
- Murray, A.S., Helsted, L.M., Autzen, M., Jain, M., Buylaert, J.P., 2018. Measurement of natural radioactivity: Calibration and performance of a high-resolution gamma spectrometry facility. *Radiation Measurements* 120, 215-220, <http://doi.org/10.1016/j.radmeas.2018.04.006>
- Nyirenda, A.N., Chithambo, M.L., 2018. Spectral study of radioluminescence in carbon-doped aluminium oxide. *Radiation Measurements* 120, 89-95, <http://doi.org/10.1016/j.radmeas.2018.06.026>
- Ou, X.J., Roberts, H.M., Duller, G.A.T., Gunn, M.D., Perkins, W.T., 2018. Attenuation of light in different rock types and implications for rock surface luminescence dating. *Radiation Measurements* 120, 305-311, <http://doi.org/10.1016/j.radmeas.2018.06.027>
- Pagonis, V., Brown, N., 2019. On the unchanging shape of thermoluminescence peaks in preheated feldspars: Implications for temperature sensing and thermochronometry. *Radiation Measurements* 124, 19-28, <http://doi.org/10.1016/j.radmeas.2019.01.021>

- Pagonis, V., Friedrich, J., Discher, M., Müller-Kirschbaum, A., Schlosser, V., Kreutzer, S., Chen, R., Schmidt, C., 2019. Excited state luminescence signals from a random distribution of defects: A new Monte Carlo simulation approach for feldspar. *Journal of Luminescence* 207, 266-272, <http://doi.org/10.1016/j.jlumin.2018.11.024>
- Palczewski, P., Chruścińska, A., 2018. Band shape modulation optically stimulated luminescence (BSM-OSL) - Simulations and first experiments. *Radiation Measurements* 120, 14-19, <http://doi.org/10.1016/j.radmeas.2018.06.019>
- Palczewski, P., Chruścińska, A., 2019. Different components of the quartz OSL signal resolved by the TM-OSL method. *Radiation Measurements* 121, 32-36, <http://doi.org/10.1016/j.radmeas.2018.12.005>
- Pandey, A., Chithambo, M.L., 2018. Thermoluminescence of the persistent-luminescence phosphor, BaAl₂O₄; A stuffed tridymite. *Radiation Measurements* 120, 73-77, <http://doi.org/10.1016/j.radmeas.2018.01.004>
- Polymeris, G.S., Şahiner, E., Kadioğlu, Y.K., Meriç, N., 2018. Properties of quartz TA – OSL signal with a peculiar decay shape for SAR TA – OSL applications. *Radiation Measurements* 120, 176-180, <http://doi.org/10.1016/j.radmeas.2018.04.002>
- Qin, J., Chen, J., Li, Y., Zhou, L., 2018. Initial sensitivity change of K-feldspar pIRIR signals due to uncompensated decrease in electron trapping probability: Evidence from radiofluorescence measurements. *Radiation Measurements* 120, 131-136, <http://doi.org/10.1016/j.radmeas.2018.06.017>
- Qiu, Z., Song, H., Hu, C., Wignall, P.B., Song, H., 2019. Carbonate thermoluminescence and its implication for marine productivity change during the Permian-Triassic transition. *Palaeogeography, Palaeoclimatology, Palaeoecology* 526, 72-79, <http://doi.org/10.1016/j.palaeo.2019.04.021>
- Rades, E.F., Sohbati, R., Luthgens, C., Jain, M., Murray, A.S., 2018. First luminescence-depth profiles from boulders from moraine deposits: Insights into glaciation chronology and transport dynamics in Malta valley, Austria. *Radiation Measurements* 120, 281-289, <http://doi.org/10.1016/j.radmeas.2018.08.011>
- Riedesel, S., King, G.E., Prasad, A.K., Kumar, R., Finch, A.A., Jain, M., 2019. Optical determination of the width of the band-tail states, and the excited and ground state energies of the principal dosimetric trap in feldspar. *Radiation Measurements* 125, 40-51, <http://doi.org/10.1016/j.radmeas.2018.08.019>
- Roberts, H.M., Duller, G.A.T., Gunn, M., Cousins, C.R., Cross, R.E., Langstaff, D., 2018. Strategies for equivalent dose determination without heating, suitable for portable luminescence readers. *Radiation Measurements* 120, 170-175, <http://doi.org/10.1016/j.radmeas.2018.04.018>
- Sadri, L., Mohammadi, K., Setayeshi, S., Khorasani, M.H., 2019. The two-level version of semi-localized transitions (SLT) model for thermoluminescence dosimeter. *Radiation Measurements* 123, 44-53, <http://doi.org/10.1016/j.radmeas.2019.02.006>
- Şahiner, E., Erturaç, M.K., Polymeris, G.S., Meriç, N., 2018. Methodological studies on integration time interval's selection for the luminescence ages using quartz and feldspar minerals; sediments collected from Sakarya, Turkey. *Radiation Measurements* 120, 163-169, <http://doi.org/10.1016/j.radmeas.2018.06.024>
- Thomas, S., Chithambo, M.L., 2018. Characteristics of the thermoluminescence of Sm³⁺-doped P₂O₅-K₂O-MgO-Al₂O₃-ZnF₂ glass. *Radiation Measurements* 120, 83-88, <http://doi.org/10.1016/j.radmeas.2018.06.005>
- Thomsen, K.J., Kook, M., Murray, A.S., Jain, M., 2018. Resolving luminescence in spatial and compositional domains. *Radiation Measurements* 120, 260-266, <http://doi.org/10.1016/j.radmeas.2018.06.002>
- Timar-Gabor, A., 2018. Electron spin resonance characterisation of sedimentary quartz of different grain sizes. *Radiation Measurements* 120, 59-65, <http://doi.org/10.1016/j.radmeas.2018.06.023>
- Tsukamoto, S., Long, H., Richter, M., Li, Y., King, G.E., He, Z., Yang, L., Zhang, J., Lambert, R., 2018. Quartz natural and laboratory ESR dose response curves: A first attempt from Chinese loess. *Radiation Measurements* 120, 137-142, <http://doi.org/10.1016/j.radmeas.2018.09.008>
- Williams, O.M., Spooner, N.A., 2018. Defect pair mechanism for quartz intermediate temperature thermoluminescence bands. *Radiation Measurements* 108, 41-44, <http://doi.org/10.1016/j.radmeas.2017.11.005>
- Yukihara, E.G., 2019. Observation of strong thermally transferred optically stimulated luminescence (TT-OSL) in BeO. *Radiation Measurements* 121, 103-108, <http://doi.org/10.1016/j.radmeas.2018.12.014>
- Yukihara, E.G., Coleman, A.C., Biswas, R.H., Lambert, R., Herman, F., King, G.E., 2018. Thermoluminescence analysis for particle temperature sensing and thermochronometry: Principles and fundamental challenges. *Radiation Measurements* 120, 274-280, <http://doi.org/10.1016/j.radmeas.2018.05.007>

Dose rate issues

- Bailiff, I.K., 2018. An examination of beta dose attenuation effects in coarse grains located in sliced samples. *Radiation Measurements* 120, 188-194, <http://doi.org/10.1016/j.radmeas.2018.07.015>

- Bu, M., Murray, A.S., Kook, M., Helsted, L.M., Buylaert, J.-P., Thomsen, K.J., 2018. Characterisation of scintillator-based gamma spectrometers for determination of sample dose rate in OSL dating applications. *Radiation Measurements* 120, 253-259, <http://doi.org/10.1016/j.radmeas.2018.07.003>
- Buylaert, J.P., Újvári, G., Murray, A.S., Smedley, R.K., Kook, M., 2018. On the relationship between K concentration, grain size and dose in feldspar. *Radiation Measurements* 120, 181-187, <http://doi.org/10.1016/j.radmeas.2018.06.003>
- Cresswell, A.J., Carter, J., Sanderson, D.C.W., 2018. Dose rate conversion parameters: Assessment of nuclear data. *Radiation Measurements* 120, 195-201, <http://doi.org/10.1016/j.radmeas.2018.02.007>
- Cunningham, A.C., Murray, A.S., Armitage, S.J., Autzen, M., 2018. High-precision natural dose rate estimates through beta counting. *Radiation Measurements* 120, 209-214, <http://doi.org/10.1016/j.radmeas.2018.04.008>
- Discher, M., Mauz, B., Martin, L., Durcan, J.A., King, G.E., Tsakalos, E., Christodoulakis, J., Lang, A., 2018. Calculating or simulating the dose rate? A comparison. *Radiation Measurements* 120, 202-208, <http://doi.org/10.1016/j.radmeas.2018.09.006>
- Liritzis, I., Bednarik, R.G., Kumar, G., Polymeris, G., Iliopoulos, I., Xanthopoulou, V., Zacharias, N., Vafiadou, A., Bratitsi, M., 2019. Daraki-Chattan rock art constrained osl chronology and multianalytical techniques: A first pilot investigation. *Journal of Cultural Heritage* 37, 29-43, <http://doi.org/10.1016/j.culher.2018.09.018>
- Murray, A.S., Helsted, L.M., Autzen, M., Jain, M., Buylaert, J.P., 2018. Measurement of natural radioactivity: Calibration and performance of a high-resolution gamma spectrometry facility. *Radiation Measurements* 120, 215-220, <http://doi.org/10.1016/j.radmeas.2018.04.006>

Dosimetry

- Autzen, M., Murray, A.S., Guérin, G., Baly, L., Ankjærgaard, C., Bailey, M., Jain, M., Buylaert, J.P., 2018. Luminescence dosimetry: Does charge imbalance matter? *Radiation Measurements* 120, 26-32, <http://doi.org/10.1016/j.radmeas.2018.08.001>
- Bilski, P., 2018. Thermoluminescent Dosimetry of Cosmic Radiation in Space, in: Chen, R., Pagonis, V. (Eds.), *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific (Europe), pp. 285-317, http://doi.org/10.1142/9781786345790_0008
- Chithambo, M.L., Kalita, J.M., 2018. Optically stimulated luminescence of ultra-high molecular weight polyethylene: A study of dosimetric features. *Radiation Measurements* 120, 78-82, <http://doi.org/10.1016/j.radmeas.2018.06.006>
- Gonzales, C.A.B., Yasuda, H., Hirota, S., Miki, K., Saito, A., Taño, J.E., Nagata, Y., 2019. Investigation of the applicability of the ESR nail dosimetry for assessment of accidental exposure in medical facilities. *Radiation Measurements* 124, 91-97, <http://doi.org/10.1016/j.radmeas.2019.03.015>
- Kim, H., Kim, M.C., Lee, J., Chang, I., Lee, S.K., Kim, J.-L., 2019. Thermoluminescence of AMOLED substrate glasses in recent mobile phones for retrospective dosimetry. *Radiation Measurements* 122, 53-56, <http://doi.org/10.1016/j.radmeas.2019.01.004>
- McKeever, S.W.S., Sholom, S., 2018. Luminescence Measurements for Retrospective Dosimetry, in: Chen, R., Pagonis, V. (Eds.), *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific (Europe), pp. 319-362, http://doi.org/10.1142/9781786345790_0009
- Nikiforov, S.V., Lushchik, A., Nagirnyi, V., Romet, I., Ponomareva, A.I., Ananchenko, D.V., Moiseykin, E.V., 2019. Validation of the model of TSL isothermal decay in dosimetric α -Al₂O₃ crystals. *Radiation Measurements* 122, 29-33, <http://doi.org/10.1016/j.radmeas.2019.01.009>
- Nyirenda, A.N., Chithambo, M.L., 2018. Spectral study of radioluminescence in carbon-doped aluminium oxide. *Radiation Measurements* 120, 89-95, <http://doi.org/10.1016/j.radmeas.2018.06.026>
- Pandey, A., Chithambo, M.L., 2018. Thermoluminescence of the persistent-luminescence phosphor, BaAl₂O₄; A stuffed tridymite. *Radiation Measurements* 120, 73-77, <http://doi.org/10.1016/j.radmeas.2018.01.004>
- Sfampa, I.K., Malletzidou, L., Pandoleon, P., Kitis, G., 2019. Thermoluminescence measurements of in-vitro and in-vivo aged porcelain. *Radiation Measurements* 125, 7-14, <http://doi.org/10.1016/j.radmeas.2019.04.017>
- Thomas, S., Chithambo, M.L., 2018. Characteristics of the thermoluminescence of Sm³⁺-doped P₂O₅-K₂O-MgO-Al₂O₃-ZnF₂ glass. *Radiation Measurements* 120, 83-88, <http://doi.org/10.1016/j.radmeas.2018.06.005>
- Wahib, N.b., Khandaker, M.U., Aqilah binti Mohamad Ramli, N., Sani, S.F.A., Bradley, D.A., 2019. Commercial kitchenware glass as a potential thermoluminescent media for retrospective dosimetry. *Applied Radiation and Isotopes* 148, 218-224, <http://doi.org/10.1016/j.apradiso.2019.04.001>

Yukihara, E.G., 2019. Observation of strong thermally transferred optically stimulated luminescence (TT-OSL) in BeO. *Radiation Measurements* 121, 103-108, <http://doi.org/10.1016/j.radmeas.2018.12.014>

Beyond quartz and K-feldspar: non-traditional minerals

- calcite

Kabacińska, Z., Krzysiniowski, R., Tadyszak, K., Coy, E., 2019. Generation of UV-induced radiation defects in calcite. *Quaternary Geochronology* 51, 24-42, <http://doi.org/10.1016/j.quageo.2019.01.002>

Qiu, Z., Song, H., Hu, C., Wignall, P.B., Song, H., 2019. Carbonate thermoluminescence and its implication for marine productivity change during the Permian-Triassic transition. *Palaeogeography, Palaeoclimatology, Palaeoecology* 526, 72-79, <http://doi.org/10.1016/j.palaeo.2019.04.021>

- flint

Alpers-Afil, N., Richter, D., Goren-Inbar, N., 2017. Evaluating the intensity of fire at the Acheulian site of Gesher Benot Ya'aqov—Spatial and thermoluminescence analyses. *PLOS ONE* 12, e0188091, <http://doi.org/10.1371/journal.pone.0188091>

Hérisson, D., Airvaux, J., Lenoble, A., Richter, D., Claud, E., Primault, J., 2016. Between the northern and southern regions of Western Europe: The Acheulean site of La Grande Vallée (Colombiers, Vienne, France). *Quaternary International* 411, 108-131, <http://doi.org/10.1016/j.quaint.2015.12.100>

- muscovite

Antohi-Trandafir, O., Timar-Gabor, A., Vulpoi, A., Bălc, R., Longman, J., Veres, D., Simon, S., 2018. Luminescence properties of natural muscovite relevant to optical dating of contaminated quartz samples. *Radiation Measurements* 109, 1-7, <http://doi.org/10.1016/j.radmeas.2017.12.004>

Instruments

Bu, M., Murray, A.S., Kook, M., Helsted, L.M., Buylaert, J.-P., Thomsen, K.J., 2018. Characterisation of scintillator-based gamma spectrometers for determination of sample dose rate in OSL dating applications. *Radiation Measurements* 120, 253-259, <http://doi.org/10.1016/j.radmeas.2018.07.003>

Carter, J., Cresswell, A.J., Kinnaird, T.C., Carmichael, L.A., Murphy, S., Sanderson, D.C.W., 2018. Non-Poisson variations in photomultipliers and implications for luminescence dating. *Radiation Measurements* 120, 267-273, <http://doi.org/10.1016/j.radmeas.2018.05.010>

Discher, M., Dornich, K., Richter, A., Mauz, B., Lang, A., 2019. Extending the measurement temperature range in a fully automated luminescence reader to -50 °C. *Radiation Measurements* 124, 13-18, <http://doi.org/10.1016/j.radmeas.2019.02.017>

Kook, M., Kumar, R., Murray, A.S., Thomsen, K.J., Jain, M., 2018. Instrumentation for the non-destructive optical measurement of trapped electrons in feldspar. *Radiation Measurements* 120, 247-252, <http://doi.org/10.1016/j.radmeas.2018.06.001>

Murray, A.S., Helsted, L.M., Autzen, M., Jain, M., Buylaert, J.P., 2018. Measurement of natural radioactivity: Calibration and performance of a high-resolution gamma spectrometry facility. *Radiation Measurements* 120, 215-220, <http://doi.org/10.1016/j.radmeas.2018.04.006>

Thomsen, K.J., Kook, M., Murray, A.S., Jain, M., 2018. Resolving luminescence in spatial and compositional domains. *Radiation Measurements* 120, 260-266, <http://doi.org/10.1016/j.radmeas.2018.06.002>

- portable instruments

Roberts, H.M., Duller, G.A.T., Gunn, M., Cousins, C.R., Cross, R.E., Langstaff, D., 2018. Strategies for equivalent dose determination without heating, suitable for portable luminescence readers. *Radiation Measurements* 120, 170-175, <http://doi.org/10.1016/j.radmeas.2018.04.018>

Rother, H., Lorenz, S., Börner, A., Kenzler, M., Siemann, N., Fülling, A., Hrynowiecka, A., Forler, D., Kuznetsov, V., Maksimov, F., Starikova, A., 2019. The terrestrial Eemian to late Weichselian sediment record at Beckentin (NE-Germany): First results from lithostratigraphic, palynological and geochronological analyses. *Quaternary International* 501, 90-108, <http://doi.org/10.1016/j.quaint.2017.08.009>

Review

- Bilski, P., 2018. Thermoluminescent Dosimetry of Cosmic Radiation in Space, in: Chen, R., Pagonis, V. (Eds.), *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific (Europe), pp. 285-317, http://doi.org/10.1142/9781786345790_0008
- Chen, R., 2018. Recent Advances in the Theory of Thermoluminescence and Optically Stimulated Luminescence; Delocalized Transitions, in: Chen, R., Pagonis, V. (Eds.), *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific (Europe), pp. 1-36, http://doi.org/10.1142/9781786345790_0001
- Chen, R., Pagonis, V., 2019. *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific, <http://doi.org/10.1142/q0172>
- Chithambo, M.L., 2018. An introduction to time-resolved optically stimulated luminescence. Morgan & Claypool Publishers, <http://doi.org/10.1088/2053-2571/aae5da>
- Chithambo, M.L., 2018. Time-resolved Luminescence: Progress in Development of Theory and Analytical Methods, in: Chen, R., Pagonis, V. (Eds.), *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific (Europe), pp. 243-284, http://doi.org/10.1142/9781786345790_0007
- Chruścińska, A., 2018. Recent Experiments and Theory of OSL, in: Chen, R., Pagonis, V. (Eds.), *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific (Europe), pp. 205-241, http://doi.org/10.1142/9781786345790_0006
- DeWerd, L.A., Hammer, C., Kry, S., 2018. Medical Applications of Luminescent Materials, in: Chen, R., Pagonis, V. (Eds.), *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific (Europe), pp. 439-479, http://doi.org/10.1142/9781786345790_0012
- Guralnik, B., Sohbaty, R., 2018. Fundamentals of Luminescence Photo- and Thermochronometry, in: Chen, R., Pagonis, V. (Eds.), *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific (Europe), pp. 399-437, http://doi.org/10.1142/9781786345790_0011
- Horowitz, Y.S., Oster, L., Eliyahu, I., 2018. Modeling the Effects of Ionization Density in Thermoluminescence Mechanisms and Dosimetry, in: Chen, R., Pagonis, V. (Eds.), *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific (Europe), pp. 83-129, http://doi.org/10.1142/9781786345790_0003
- Li, S.-H., Li, B., 2018. TL/OSL Dating, in: Chen, R., Pagonis, V. (Eds.), *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific (Europe), pp. 363-398, http://doi.org/10.1142/9781786345790_0010
- Martini, M., Fasoli, M., 2018. Luminescence and Defects in Quartz, in: Chen, R., Pagonis, V. (Eds.), *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific (Europe), pp. 173-204, http://doi.org/10.1142/9781786345790_0005
- McKeever, S.W.S., Sholom, S., 2018. Luminescence Measurements for Retrospective Dosimetry, in: Chen, R., Pagonis, V. (Eds.), *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific (Europe), pp. 319-362, http://doi.org/10.1142/9781786345790_0009
- Pagonis, V., 2018. Recent Advances in the Theory of Quantum Tunneling for Luminescence Phenomena, in: Chen, R., Pagonis, V. (Eds.), *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific (Europe), pp. 37-81, http://doi.org/10.1142/9781786345790_0002
- Polymeris, G.S., Kitis, G., 2018. Thermally Assisted Optically Stimulated Luminescence (TA – OSL), in: Chen, R., Pagonis, V. (Eds.), *Advances in Physics and Applications of Optically and Thermally Stimulated Luminescence*. World Scientific (Europe), pp. 131-171, http://doi.org/10.1142/9781786345790_0004