Bibliography

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Various geological applications

- aeolian

Bernhardson, M., Alexanderson, H., 2018. Early Holocene NW-W winds reconstructed from small dune fields, central Sweden. Boreas 47, 869-883, http://doi.org/10.1111/bor.12307

Bosq, M., Bertran, P., Degeai, J.-P., Kreutzer, S., Queffelec, A., Moine, O., Morin, E., 2018. Last Glacial aeolian landforms and deposits in the Rhône Valley (SE France): Spatial distribution and grain-size characterization. Geomorphology 318, 250-269, http://doi.org/10.1016/j.geomorph.2018.06.010

Breuning-Madsen, H., Bird, K.L., Balstrøm, T., Elberling, B., Kroon, A., Lei, E.B., 2018. Development of plateau dunes controlled by iron pan formation and changes in land use and climate. CATENA 171, 580-587, http://doi.org/10.1016/j.catena.2018.07.011

Ellwein, A., McFadden, L., McAuliffe, J., Mahan, S., 2018. Late Quaternary Soil Development Enhances Aeolian Landform Stability, Moenkopi Plateau, Southern Colorado Plateau, USA. Geosciences 8, 146, http://www.mdpi.com/2076-3263/8/5/146

Kasse, C., Tebbens, L.A., Tump, M., Deeben, J., Derese, C., De Grave, J., Vandenberghe, D., 2018. Late Glacial and Holocene aeolian deposition and soil formation in relation to the Late Palaeolithic Ahrensburg occupation, site Geldrop-A2, the Netherlands. 97, 3-29, http://doi.org/10.1017/njg.2018.1

Pilote, L.-M., Garneau, M., Van Bellen, S., Lamothe, M., 2018. Multiproxy analysis of inception and development of the Lac-à-la-Tortue peatland complex, St Lawrence Lowlands, eastern Canada. Boreas 47, 1084-1101, http://doi.org/10.1111/bor.12337

White, J.L., Lindsey, K.O., Morgan, M.L., Mahan, S.A., 2017. OF-17-05 Geologic Map of the Fountain Quadrangle, El Paso County, Colorado. Open File Reports. Golden, CO: Colorado Geological Survey, https://store.coloradogeologicalsurvey.org/product/geologic-map-fountain-quadrangle-el-paso-colorado/

Zeng, L., Yi, S., Lu, H., Chen, Y., Lei, F., Xu, Z., Wang, X., Zhang, W., 2018. Response of dune mobility and pedogenesis to fluctuations in monsoon precipitation and human activity in the Hulunbuir dune field, northeastern China, since the last deglaciation. Global and Planetary Change 168, 1-14, http://doi.org/10.1016/j.gloplacha.2018.06.001

- alluvial fan

An, F., Liu, X., Zhang, Q., Wang, Y., Chen, T., Yu, L., Lu, B., Chang, Q., 2018. Drainage geomorphic evolution in response to paleoclimatic changes since 12.8 ka in the eastern Kunlun Mountains, NE Qinghai-Tibetan Plateau. Geomorphology 319, 117-132, http://doi.org/10.1016/j.geomorph.2018.07.016

Dosseto, A., May, J.-H., Choi, J.-H., Swander, Z.J., Fink, D., Korup, O., Hesse, P., Singh, T., Mifsud, C., Srivastava, P., 2018. Late quaternary fluvial incision and aggradation in the Lesser Himalaya, India. Quaternary Science Reviews 197, 112-128, http://doi.org/10.1016/j.quascirev.2018.07.035

Li, Y., Armitage, S.J., Stevens, T., Meng, X., 2018. Alluvial fan aggradation/incision history of the eastern Tibetan plateau margin and implications for debris flow/debris-charged flood hazard. Geomorphology 318, 203-216, http://doi.org/10.1016/j.geomorph.2018.06.016

- cave

Bacon, A.-M., Duringer, P., Westaway, K., Joannes-Boyau, R., Zhao, J.-x., Bourgon, N., Dufour, E., Pheng, S., Tep, S., Ponche, J.-L., Barnes, L., Blin, A., Patole-Edoumba, E., Demeter, F., 2018. Testing the savannah corridor hypothesis during MIS2: The Boh Dambang hyena site in southern Cambodia. Quaternary International 464, 417-439, http://doi.org/10.1016/j.quaint.2017.10.047

Klasen, N., Kehl, M., Mikdad, A., Brückner, H., Weniger, G.-C., 2018. Chronology and formation processes of the Middle to Upper Palaeolithic deposits of Ifri n'Ammar using multi-method luminescence dating and micromorphology. Quaternary International 485, 89-102, http://doi.org/10.1016/j.quaint.2017.10.043

Veres, D., Cosac, M., Schmidt, C., Murătoreanu, G., Hambach, U., Hubay, K., Wulf, S., Karátson, D., 2018. New chronological constraints for Middle Palaeolithic (MIS 6/5-3) cave sequences in Eastern Transylvania, Romania. Quaternary International 485, 103-114, http://doi.org/10.1016/j.quaint.2017.07.015

- coastal

Bitinas, A., Dobrotin, N., Buynevich, I.V., Molodkov, A., Damušytė, A., Pupienis, D., 2018. Coastal dune dynamics along the northern Curonian Spit, Lithuania: toward an integrated database. Geological Quarterly 62, http://doi.org/10.7306/gq.1435

Clemmensen, L.B., Hougaard, I.W., Murray, A.S., Pedersen, S.S., 2018. A high-resolution sea-level proxy dated using quartz OSL from the Holocene Skagen Odde spit system, Denmark. Boreas 47, 1184-1198, http://doi.org/10.1111/bor.12319

Lampe, M., Lampe, R., 2018. Evolution of a large Baltic beach ridge plain (Neudarss, NE Germany): A continuous record of sea-level and wind-field variation since the Homeric Minimum. Earth Surface Processes and Landforms 43, 3042-3056, http://doi.org/10.1002/esp.4468

Li, Y., Shang, Z., Tsukamoto, S., Tamura, T., Yi, L., Wang, H., Frechen, M., Li, J., Jiang, X., 2018. Quartz and K-feldspar luminescence dating of sedimentation in the North Bohai coastal area (NE China) since the late pleistocene. Journal of Asian Earth Sciences 152, 103-115, http://doi.org/10.1016/j.jseaes.2017.10.036

Lüthgens, C., Ho, L.-D., Clemenz, N., Chen, J.-H., Jen, C.-H., Yen, J.-Y., Chyi, S.-J., 2018. The Holocene paleo-environmental history of the Gangkou River estuary, Hengchun Peninsula, Taiwan. Terrestrial, Atmospheric and Oceanic Sciences 29, 547-576, http://doi.org/10.3319/TAO.2018.05.07.01

Raff, J.L., Shawler, J.L., Ciarletta, D.J., Hein, E.A., Lorenzo-Trueba, J., Hein, C.J., 2018. Insights into barrier-island stability derived from transgressive/regressive state changes of Parramore Island, Virginia. Marine Geology 403, 1-19, http://doi.org/10.1016/j.margeo.2018.04.007

Tarı, U., Tüysüz, O., Blackwell, B.A.B., Mahmud, Z., Florentin, J.A., Qi, J., Genç, Ş.C., Skinner, A.R., 2018. Sealevel change and tectonic uplift from dated marine terraces along the eastern Mediterranean coast, southeastern Turkey. Palaeogeography, Palaeoclimatology, Palaeoecology 511, 80-102, http://doi.org/10.1016/j.palaeo.2018.07.003

Tõnisson, H., Suursaar, Ü., Kont, A., Muru, M., Rivis, R., Rosentau, A., Tamura, T., Vilumaa, K., 2018. Rhythmic Patterns of Coastal Formations as Signs of Past Climate Fluctuations on Uplifting Coasts of Estonia, the Baltic Sea. Journal of Coastal Research 85, 611-615, http://doi.org/10.2112/si85-123.1

Zular, A., Utida, G., Cruz, F.W., Sawakuchi, A.O., Wang, H., Bícego, M., Giannini, P.C.F., Rodrigues, S.I., Garcia, G.P.B., Vuille, M., Sifeddine, A., Zocatelli, R., Turcq, B., Mendes, V.R., 2018. The effects of mid-Holocene fluvio-eolian interplay and coastal dynamics on the formation of dune-dammed lakes in NE Brazil. Quaternary Science Reviews 196, 137-153, http://doi.org/10.1016/j.quascirev.2018.07.022

- coastal (estuary)

Botha, G.A., Porat, N., Haldorsen, S., Duller, G.A.T., Taylor, R., Roberts, H.M., 2018. Beach ridge sets reflect the late Holocene evolution of the St Lucia estuarine lake system, South Africa. Geomorphology 318, 112-127, http://doi.org/10.1016/j.geomorph.2018.06.001

- coastal (fluvial)

De Clercq, M., Missiaen, T., Wallinga, J., Zurita Hurtado, O., Versendaal, A., Mathys, M., De Batist, M., 2018. A well-preserved Eemian incised-valley fill in the southern North Sea Basin, Belgian Continental Shelf - Coastal Plain: Implications for northwest European landscape evolution. Earth Surface Processes and Landforms 43, 1913-1942, http://doi.org/10.1002/esp.4365

- earthquake (and fault related)

Bennett, S.E.K., DuRoss, C.B., Gold, R.D., Briggs, R.W., Personius, S.F., Reitman, N.G., Devore, J.R., Hiscock, A.I., Mahan, S.A., Gray, H.J., Gunnarson, S., Stephenson, W.J., Pettinger, E., Odum, J.K., 2018. Paleoseismic Results from the Alpine Site, Wasatch Fault Zone: Timing and Displacement Data for Six

Holocene Earthquakes at the Salt Lake City–Provo Segment Boundary. Bulletin of the Seismological Society of America 108, 3202-3224, http://doi.org/10.1785/0120160358

Carlson, B.M., Schermer, E.R., Amos, C.B., Stephenson, W.J., Sherrod, B.L., Mahan, S.A., 2018. Holocene Fault Reactivation in the Eastern Cascades, Washington. Bulletin of the Seismological Society of America 108, 2614-2633, http://doi.org/10.1785/0120170228

Charreau, J., Saint-Carlier, D., Lavé, J., Dominguez, S., Blard, P.-H., Avouac, J.-P., Brown, N.D., Malatesta, L.C., Wang, S., Rhodes, E.J., 2018. Late Pleistocene acceleration of deformation across the northern Tianshan piedmont (China) evidenced from the morpho-tectonic evolution of the Dushanzi anticline. Tectonophysics 730, 132-140, http://doi.org/10.1016/j.tecto.2018.02.016

Deev, E., Turova, I., Borodovskiy, A., Zolnikov, I., Pozdnyakova, N., Molodkov, A., 2019. Large earthquakes in the Katun Fault zone (Gorny Altai): Paleoseismological and archaeoseismological evidence. Quaternary Science Reviews 203, 68-89, http://doi.org/10.1016/j.quascirev.2018.11.009

Dong, S., Zhang, P., Zheng, W., Yu, Z., Lei, Q., Yang, H., Liu, J., Gong, H., 2018. Paleoseismic observations along the Langshan range-front fault, Hetao Basin, China: Tectonic and seismic implications. Tectonophysics 730, 63-80, http://doi.org/10.1016/j.tecto.2018.02.012

DuRoss, C.B., Bennett, S.E.K., Briggs, R.W., Personius, S.F., Gold, R.D., Reitman, N.G., Hiscock, A.I., Mahan, S.A., 2018. Combining Conflicting Bayesian Models to Develop Paleoseismic Records: An Example from the Wasatch Fault Zone, Utah. Bulletin of the Seismological Society of America 108, 3180-3201, http://doi.org/10.1785/0120170302

DuRoss, C.B., Hylland, M.D., Hiscock, A.I., Personius, S.F., Briggs, R.W., Gold, R.D., Beukelman, G.S., McDonald, G.N., Erickson, B.A., McKean, A.P., Angster, S.J., King, R., Crone, A.J., Mahan, S.A., 2017. Holocene Surface-Faulting Earthquakes at the Spring Lake and North Creek Sites on the Wasatch Fault Zone: Evidence for Complex rupture of the Nephi Segment Utah Geological Survey Special Study 159, https://ugspub.nr.utah.gov/publications/special_studies/ss-159/ss-159.pdf

Elliott, A.J., Oskin, M.E., Liu-zeng, J., Shao, Y.X., 2018. Persistent rupture terminations at a restraining bend from slip rates on the eastern Altyn Tagh fault. Tectonophysics 733, 57-72, http://doi.org/10.1016/j.tecto.2018.01.004

Gellman, Y., Matmon, A., Mushkin, A., Porat, N., 2018. Drainage system reorganization and late Quaternary tectonic deformation along the southern Dead Sea Transform. Quaternary Research 90, 380-393, http://doi.org/10.1017/qua.2018.53

Le Béon, M., Tseng, Y.-C., Klinger, Y., Elias, A., Kunz, A., Sursock, A., Daëron, M., Tapponnier, P., Jomaa, R., 2018. High-resolution stratigraphy and multiple luminescence dating techniques to reveal the paleoseismic history of the central Dead Sea fault (Yammouneh fault, Lebanon). Tectonophysics 738-739, 1-15, http://doi.org/10.1016/j.tecto.2018.04.009

Piety, L.A., Redwine, J.R., Derouin, S.A., Prentice, C.S., Kelson, K.I., Klinger, R.E., Mahan, S., 2018. Holocene Surface Ruptures on the Salinas Fault and Southeastern Great Southern Puerto Rico Fault Zone, South Coastal Plain of Puerto Rico. Bulletin of the Seismological Society of America 108, 619-638, http://doi.org/10.1785/0120170182

Qiu, D., Liu, Q., Yun, J., Jin, Z., Zhu, D., Li, T., Sun, D., 2018. Electron spin resonance (ESR) dating of pre-Quaternary faults in the Sichuan basin, SW China. Journal of Asian Earth Sciences 163, 142-151, http://doi.org/10.1016/j.jseaes.2018.06.011

Salisbury, J.B., Arrowsmith, J.R., Brown, N., Rockwell, T., Akciz, S., Ludwig, L.G., 2018. The Age and Origin of Small Offsets at Van Matre Ranch along the San Andreas Fault in the Carrizo Plain, California. Bulletin of the Seismological Society of America 108, 639-653, http://doi.org/10.1785/0120170162

Srivastava, V., Mukul, M., Barnes, J.B., Mukul, M., 2018. Geometry and kinematics of Main Frontal thrust-related fault propagation folding in the Mohand Range, northwest Himalaya. Journal of Structural Geology 115, 1-18, http://doi.org/10.1016/j.jsg.2018.06.022

- fluvial

Cloete, G., Benito, G., Grodek, T., Porat, N., Enzel, Y., 2018. Analyses of the magnitude and frequency of a 400-year flood record in the Fish River Basin, Namibia. Geomorphology 320, 1-17, http://doi.org/10.1016/j.geomorph.2018.07.025

Daley, J., Cohen, T., 2018. Climatically-Controlled River Terraces in Eastern Australia. Quaternary 1, 23, http://doi.org/10.3390/quat1030023

De Clercq, M., Missiaen, T., Wallinga, J., Zurita Hurtado, O., Versendaal, A., Mathys, M., De Batist, M., 2018. A well-preserved Eemian incised-valley fill in the southern North Sea Basin, Belgian Continental Shelf - Coastal Plain: Implications for northwest European landscape evolution. Earth Surface Processes and Landforms 43, 1913-1942, http://doi.org/10.1002/esp.4365

De La Garza, R.G., González, J.L., Shen, Z., 2018. Luminescence chronology of a Mass Grave of Giant Gopher Tortoises (Gopherus hexagonatus), Willacy County, TX. Bulletin of the South Texas Geological Society 59, 20-33,

Delmas, M., Calvet, M., Gunnell, Y., Voinchet, P., Manel, C., Braucher, R., Tissoux, H., Bahain, J.-J., Perrenoud, C., Saos, T., 2018. Terrestrial 10Be and electron spin resonance dating of fluvial terraces quantifies quaternary tectonic uplift gradients in the eastern Pyrenees. Quaternary Science Reviews 193, 188-211, http://doi.org/10.1016/j.quascirev.2018.06.001

Gadot, Y., Elgart-Sharon, Y., Ben-Melech, N., Davidovich, U., Avni, G., Avni, Y., Porat, N., 2018. OSL dating of pre-terraced and terraced landscape: Land transformation in Jerusalem's rural hinterland. Journal of Archaeological Science: Reports 21, 575-583, http://doi.org/10.1016/j.jasrep.2018.08.036

Gellman, Y., Matmon, A., Mushkin, A., Porat, N., 2018. Drainage system reorganization and late Quaternary tectonic deformation along the southern Dead Sea Transform. Quaternary Research 90, 380-393, http://doi.org/10.1017/qua.2018.53

Gray, H.J., Tucker, G.E., Mahan, S.A., 2018. Application of a Luminescence-Based Sediment Transport Model. Geophysical Research Letters 45, 6071-6080, http://doi.org/10.1029/2018GL078210

Guo, X., Forman, S.L., Marin, L., Li, X., 2018. Assessing tectonic and climatic controls for Late Quaternary fluvial terraces in Guide, Jianzha, and Xunhua Basins along the Yellow River on the northeastern Tibetan Plateau. Quaternary Science Reviews 195, 109-121, http://doi.org/10.1016/j.quascirev.2018.07.005

Hesse, P.P., Williams, R., Ralph, T.J., Larkin, Z.T., Fryirs, K.A., Westaway, K.E., Yonge, D., 2018. Dramatic reduction in size of the lowland Macquarie River in response to Late Quaternary climate-driven hydrologic change. Quaternary Research 90, 360-379, http://doi.org/10.1017/qua.2018.48

Hošek, M., Matys Grygar, T., Elznicová, J., Faměra, M., Popelka, J., Matkovič, J., Kiss, T., 2018. Geochemical mapping in polluted floodplains using in situ X-ray fluorescence analysis, geophysical imaging, and statistics: Surprising complexity of floodplain pollution hotspot. CATENA 171, 632-644, http://doi.org/10.1016/j.catena.2018.07.037

Knight, J., Evans, M., 2018. Luminescence dating, sediment analysis, and flood dynamics on the Sabie River, South Africa. Geomorphology 319, 1-14, http://doi.org/10.1016/j.geomorph.2018.07.011

Kolb, T., Fuchs, M., 2018. Luminescence dating of pre-Eemian (pre-MIS 5e) fluvial terraces in Northern Bavaria (Germany) – Benefits and limitations of applying a pIRIR225-approach. Geomorphology 321, 16-32, http://doi.org/10.1016/j.geomorph.2018.08.009

Lal, R., Saini, H.S., Pant, N.C., Mujtaba, S.A.I., 2019. Tectonics induced switching of provenance during the Late Quaternary aggradation of the Indus River Valley, Ladakh, India. Geoscience Frontiers 10, 285-297, http://doi.org/10.1016/j.gsf.2017.12.016

Lauer, T., Weiss, M., 2018. Timing of the Saalian- and Elsterian glacial cycles and the implications for Middle – Pleistocene hominin presence in central Europe. Scientific Reports 8, 5111, http://doi.org/10.1038/s41598-018-23541-w

Li, F., Pan, B., Lai, Z., Gao, H., Ou, X., 2018. Identifying the degree of luminescence signal bleaching in fluvial sediments from the Inner Mongolian reaches of the Yellow River. Geochronometria 45, 82-96, http://doi.org/10.1515/geochr-2015-0087

Liu, W., Cui, P., Ge, Y., Yi, Z., 2018. Paleosols identified by rock magnetic properties indicate dam-outburst events of the Min River, eastern Tibetan Plateau. Palaeogeography, Palaeoclimatology, Palaeoecology 508, 139-147, http://doi.org/10.1016/j.palaeo.2018.07.029

Lv, C., Li, X., Han, Z., Wang, Y., Zhou, Y., Jiang, M., Yang, Q., Xu, Z., Yi, S., Lu, H., 2018. Fluvial response to precipitation variations since 36 ka in the Hunshandake Sandy Land in North China. Geomorphology 317, 128-138, http://doi.org/10.1016/j.geomorph.2018.05.016

Mueller, D., Jacobs, Z., Cohen, T.J., Price, D.M., Reinfelds, I.V., Shulmeister, J., 2018. Revisiting an arid LGM using fluvial archives: a luminescence chronology for palaeochannels of the Murrumbidgee River, south-eastern Australia. Journal of Quaternary Science 33, 777-793, http://doi.org/10.1002/jqs.3059

Munoz, S.E., Giosan, L., Therrell, M.D., Remo, J.W.F., Shen, Z., Sullivan, R.M., Wiman, C., O'Donnell, M., Donnelly, J.P., 2018. Climatic control of Mississippi River flood hazard amplified by river engineering. Nature 556, 95-98, http://doi.org/10.1038/nature26145

Polenz, M., Vermeer, J.L., Paulín, G.L., Tepper, J.H., Mahan, S.A., Cakir, R., 2017. Geologic map of the littlerock 7.5-minute quadrangle, Thurston county, Washington. Washington geological survey map series 2017-01, http://www.dnr.wa.gov/publications/ger_ms2017-01_geol_map_littlerock_24k.zip

Pravkin, S.A., Bolshiyanov, D.Y., Pomortsev, O.A., Savelieva, L.A., Molodkov, A.N., Grigoryev, M.N., Arslanov, K.A., 2018. The relief, structure and age of Quaternary deposits of the valley of the Lena River in the Yakutian bend. Vestnik of Saint Petersburg University: Earth Sciences 63, 209-229, http://doi.org/10.21638/11701/spbu07.2018.206

Quik, C., Wallinga, J., 2018. Reconstructing lateral migration rates in meandering systems – a novel Bayesian approach combining optically stimulated luminescence (OSL) dating and historical maps. Earth Surface Dynamics 6, 705-721, http://doi.org/10.5194/esurf-6-705-2018

Suther, B.E., Leigh, D.S., Brook, G.A., Yang, L., 2018. Mega-meander paleochannels of the southeastern Atlantic Coastal Plain, USA. Palaeogeography, Palaeoclimatology, Palaeoecology 511, 52-79, http://doi.org/10.1016/j.palaeo.2018.07.002

von Suchodoletz, H., Gärtner, A., Zielhofer, C., Faust, D., 2018. Eemian and post-Eemian fluvial dynamics in the Lesser Caucasus. Quaternary Science Reviews 191, 189-203, http://doi.org/10.1016/j.quascirev.2018.05.012

White, J.L., Lindsey, K.O., Morgan, M.L., Mahan, S.A., 2017. OF-17-05 Geologic Map of the Fountain Quadrangle, El Paso County, Colorado. Open File Reports. Golden, CO: Colorado Geological Survey, https://store.coloradogeologicalsurvey.org/product/geologic-map-fountain-quadrangle-el-paso-colorado/

- glacial and periglacial

Alexanderson, H., Henriksen, M., Ryen, H.T., Landvik, J.Y., Peterson, G., 2018. 200 ka of glacial events in NW Svalbard: an emergence cycle facies model and regional correlations. arktos 4, 3, http://doi.org/10.1007/s41063-018-0037-z

Allen, M.D., Mavor, S.P., Tepper, J.H., Nesbitt, E.A., Mahan, S.A., Cakir, R., Stoker, B.A., Anderson, M.L., 2017. Geologic map of the Maltby 7.5-minute quadrangle, Snohomish and King counties, Washington. Washington geological survey map series 2017-02 october 2017, http://www.dnr.wa.gov/publications/ger_ms2017-02_geol_map_maltby_24k.zip]

Buechi, M.W., Graf, H.R., Haldimann, P., Lowick, S.E., Anselmetti, F.S., 2018. Multiple Quaternary erosion and infill cycles in overdeepened basins of the northern Alpine foreland. Swiss Journal of Geosciences 111, 133-167, http://doi.org/10.1007/s00015-017-0289-9

Chiverrell, R.C., Smedley, R.K., Small, D., Ballantyne, C.K., Burke, M.J., Callard, S.L., Clark, C.D., Duller, G.A.T., Evans, D.J.A., Fabel, D., van Landeghem, K., Livingstone, S., Ó Cofaigh, C., Thomas, G.S.P., Roberts, D.H., Saher, M., Scourse, J.D., Wilson, P., 2018. Ice margin oscillations during deglaciation of the northern Irish Sea Basin. Journal of Quaternary Science 33, 739-762, http://doi.org/10.1002/jqs.3057

Evans, D.J.A., Roberts, D.H., Bateman, M.D., Medialdea, A., Ely, J., Moreton, S.G., Clark, C.D., Fabel, D., 2018. Sedimentation during Marine Isotope Stage 3 at the eastern margins of the Glacial Lake Humber basin, England. Journal of Quaternary Science 33, 871-891, http://doi.org/10.1002/jqs.3066

Flindt, A.-C., Benediktsson, Í.Ö., Alexanderson, H., Möller, P., 2018. A pre-LGM sandur at Fiskarheden in NW Dalarna, central Sweden – sedimentology and glaciotectonic deformation. Boreas 47, 711-737, http://doi.org/10.1111/bor.12301

Gilbert, G.L., O'Neill, H.B., Nemec, W., Thiel, C., Christiansen, H.H., Buylaert, J.-P., 2018. Late Quaternary sedimentation and permafrost development in a Svalbard fjord-valley, Norwegian high Arctic. Sedimentology 65, 2531-2558, http://doi.org/10.1111/sed.12476

Glasser, N.F., Davies, J.R., Hambrey, M.J., Davies, B.J., Gheorghiu, D.M., Balfour, J., Smedley, R.K., Duller, G.A.T., 2018. Late Devensian deglaciation of south-west Wales from luminescence and cosmogenic isotope dating. Journal of Quaternary Science 33, 804-818, http://doi.org/10.1002/jqs.3061

Gorokhovich, Y., Nelson, M., Eaton, T., Wolk-Stanley, J., Sen, G., 2018. Geochronology and geomorphology of the Jones Point glacial landform in Lower Hudson Valley (New York): Insight into deglaciation processes since the Last Glacial Maximum. Geomorphology 321, 87-102, http://doi.org/10.1016/j.geomorph.2018.08.013

Jenkins, G.T.H., Duller, G.A.T., Roberts, H.M., Chiverrell, R.C., Glasser, N.F., 2018. A new approach for luminescence dating glaciofluvial deposits - High precision optical dating of cobbles. Quaternary Science Reviews 192, 263-273, http://doi.org/10.1016/j.quascirev.2018.05.036

Zhang, Z., Hou, S., Yi, S., 2018. The first luminescence dating of Tibetan glacier basal sediment. The Cryosphere 12, 163-168, http://doi.org/10.5194/tc-12-163-2018

- lacustrine

Ahlborn, M., Haberzettl, T., Wang, J., Fürstenberg, S., Mäusbacher, R., Mazzocco, J., Pierson, J., Zhu, L., Frenzel, P., 2015. Holocene lake level history of the Tangra Yumco lake system, southern-central Tibetan Plateau. The Holocene 26, 176-187, http://doi.org/10.1177/0959683615596840

Ito, K., Tamura, T., Hasebe, N., Nakamura, T., Arai, S., Ogata, M., Itono, T., Kashiwaya, K., 2015. Comparison of Luminescence Dating Methods on Lake Sediments from a Small Catchment: Example from Lake Yogo, Japan, in: Kashiwaya, K., Shen, J., Kim, J.Y. (Eds.), Earth Surface Processes and Environmental Changes in East Asia: Records From Lake-catchment Systems. Springer Japan, Tokyo, pp. 221-238

Lehmkuhl, F., Grunert, J., Hülle, D., Batkhishig, O., Stauch, G., 2018. Paleolakes in the Gobi region of southern Mongolia. Quaternary Science Reviews 179, 1-23, http://doi.org/10.1016/j.quascirev.2017.10.035

Li, G., Madsen, D.B., Jin, M., Stevens, T., Tao, S., She, L., Yang, L., Li, F., Wei, H., Duan, Y., Chen, F., 2018. Orbital scale lake evolution in the Ejina Basin, central Gobi Desert, China revealed by K-feldspar luminescence dating of paleolake shoreline features. Quaternary International 482, 109-121, http://doi.org/10.1016/j.quaint.2018.03.040

Li, G., She, L., Jin, M., Yang, H., Madsen, D., Chun, X., Yang, L., Wei, H., Tao, S., Chen, F., 2018. The spatial extent of the East Asian summer monsoon in arid NW China during the Holocene and Last Interglaciation. Global and Planetary Change 169, 48-65, http://doi.org/10.1016/j.gloplacha.2018.07.008

Liu, W., Hu, K., Carling, P.A., Lai, Z., Cheng, T., Xu, Y., 2018. The establishment and influence of Baimakou paleo-dam in an upstream reach of the Yangtze River, southeastern margin of the Tibetan Plateau. Geomorphology 321, 167-173, http://doi.org/10.1016/j.geomorph.2018.08.028

- loess

Bösken, J., Sümegi, P., Zeeden, C., Klasen, N., Gulyás, S., Lehmkuhl, F., 2018. Investigating the last glacial Gravettian site 'Ságvár Lyukas Hill' (Hungary) and its paleoenvironmental and geochronological context using a multi-proxy approach. Palaeogeography, Palaeoclimatology, Palaeoecology 509, 77-90, http://doi.org/10.1016/j.palaeo.2017.08.010

Costantini, E.A.C., Carnicelli, S., Sauer, D., Priori, S., Andreetta, A., Kadereit, A., Lorenzetti, R., 2018. Loess in Italy: Genesis, characteristics and occurrence. CATENA 168, 14-33, http://doi.org/10.1016/j.catena.2018.02.002

Crouvi, O., Barzilai, O., Goldsmith, Y., Amit, R., Matskevich, Z., Porat, N., Enzel, Y., 2018. Middle to late Pleistocene shift in eolian silts contribution into Mediterranean soils at the fringe of the Negev loess, Israel. Quaternary Science Reviews 191, 101-117, http://doi.org/10.1016/j.quascirev.2018.04.030

Durn, G., Rubinić, V., Wacha, L., Patekar, M., Frechen, M., Tsukamoto, S., Tadej, N., Husnjak, S., 2018. Polygenetic soil formation on Late Glacial Loess on the Susak Island reflects paleo-environmental changes in the Northern Adriatic area. Quaternary International 494, 236-247, http://doi.org/10.1016/j.quaint.2017.06.072

Durn, G., Wacha, L., Bartolin, M., Rolf, C., Frechen, M., Tsukamoto, S., Tadej, N., Husnjak, S., Li, Y., Rubinić, V., 2018. Provenance and formation of the red palaeosol and lithified terra rossa-like infillings on the Island of Susak: A high-resolution and chronological approach. Quaternary International 494, 105-129, http://doi.org/10.1016/j.quaint.2017.11.040

E, C., Sohbati, R., Murray, A.S., Buylaert, J.-P., Liu, X., Yang, L., Yuan, J., Yan, W., 2018. Hebei loess section in the Anyemaqen Mountains, northeast Tibetan Plateau: a high-resolution luminescence chronology. Boreas 47, 1170-1183, http://doi.org/10.1111/bor.12321

Fedorowicz, S., Łanczont, M., Mroczek, P., Bogucki, A., Standzikowski, K., Moska, P., Kusiak, J., Bluszcz, A., 2018. Luminescence dating of the Volochysk section – a key Podolian loess site (Ukraine). Geological Quarterly 62, 729-744, http://doi.org/10.7306/gq.1436

Meyer-Heintze, S., Sprafke, T., Schulte, P., Terhorst, B., Lomax, J., Fuchs, M., Lehmkuhl, F., Neugebauer-Maresch, C., Einwögerer, T., Händel, M., Simon, U., Solís Castillo, B., 2018. The MIS 3/2 transition in a new loess profile at Krems-Wachtberg East – A multi-methodological approach. Quaternary International 464, 370-385, http://doi.org/10.1016/j.quaint.2017.11.048

Moska, P., Adamiec, G., Jary, Z., Bluszcz, A., Poręba, G., Piotrowska, N., Krawczyk, M., Skurzyński, J., 2018. Luminescence chronostratigraphy for the loess deposits in Złota, Poland. Geochronometria 45, 44-55, http://doi.org/10.1515/geochr-2015-0073

Nawrocki, J., Bogucki, A., Łanczont, M., Werner, T., Standzikowski, K., Pańczyk, M., 2018. The Hilina Pali palaeomagnetic excursion and possible self-reversal in the loess from western Ukraine. Boreas 47, 954-966, http://doi.org/10.1111/bor.12305

Song, Y., Luo, D., Du, J., Kang, S., Cheng, P., Fu, C., Guo, X., 2018. Radiometric dating of late Quaternary loess in the northern piedmont of South Tianshan Mountains: Implications for reliable dating. Geological Journal 53, 417-426, http://doi.org/10.1002/gj.3129

Stauch, G., Lai, Z., Lehmkuhl, F., Schulte, P., 2018. Environmental changes during the late Pleistocene and the Holocene in the Gonghe Basin, north-eastern Tibetan Plateau. Palaeogeography, Palaeoclimatology, Palaeoecology 509, 144-155, http://doi.org/10.1016/j.palaeo.2016.12.032

Wacha, L., Matoš, B., Kunz, A., Lužar-Oberiter, B., Tomljenović, B., Banak, A., 2018. First post-IR IRSL dating results of Quaternary deposits from Bilogora (NE Croatia): Implications for the Pleistocene relative uplift and incision rates in the area. Quaternary International 494, 193-210, http://doi.org/10.1016/j.quaint.2017.08.049

White, J.L., Lindsey, K.O., Morgan, M.L., Mahan, S.A., 2017. OF-17-05 Geologic Map of the Fountain Quadrangle, El Paso County, Colorado. Open File Reports. Golden, CO: Colorado Geological Survey, https://store.coloradogeologicalsurvey.org/product/geologic-map-fountain-quadrangle-el-paso-colorado/

Zeeden, C., Hambach, U., Veres, D., Fitzsimmons, K., Obreht, I., Bösken, J., Lehmkuhl, F., 2018. Millennial scale climate oscillations recorded in the Lower Danube loess over the last glacial period. Palaeogeography, Palaeoclimatology, Palaeoecology 509, 164-181, http://doi.org/10.1016/j.palaeo.2016.12.029

Zens, J., Schulte, P., Klasen, N., Krauß, L., Pirson, S., Burow, C., Brill, D., Eckmeier, E., Kels, H., Zeeden, C., Spagna, P., Lehmkuhl, F., 2018. OSL chronologies of paleoenvironmental dynamics recorded by loess-paleosol sequences from Europe: Case studies from the Rhine-Meuse area and the Neckar Basin. Palaeogeography, Palaeoclimatology, Palaeoecology 509, 105-125, http://doi.org/10.1016/j.palaeo.2017.07.019

Zhang, J., Rolf, C., Wacha, L., Tsukamoto, S., Durn, G., Frechen, M., 2018. Luminescence dating and palaeomagnetic age constraint of a last glacial loess-palaeosol sequence from Istria, Croatia. Quaternary International 494, 19-33, http://doi.org/10.1016/j.quaint.2018.05.045

- meteorites

Moska, P., Stankowski, W., Poręba, G., 2018. Optically stimulated luminescence techniques applied to the dating of the fall of meteorites in Morasko. Geochronometria 45, 74-81, http://doi.org/10.1515/geochr-2015-0088

Sears, D.W.G., 2018. Shedding Light: The luminescent glow of meteorites and moon rocks. CreateSpace Independent Publishing Platform, https://www.amazon.com/Shedding-Light-luminescent-meteorites-rocks/dp/1725929643

Sears, D.W.G., Ninagawa, K., Singhvi, A., 2018. Glimmerings of the Past: The Luminescence Properties of Meteorites and Lunar Samples with an Emphasis on Applications. CreateSpace Independent Publishing Platform, https://www.amazon.com/Glimmerings-Past-Luminescence-Properties-Applications/dp/1723236276

- soil

Costantini, E.A.C., Carnicelli, S., Sauer, D., Priori, S., Andreetta, A., Kadereit, A., Lorenzetti, R., 2018. Loess in Italy: Genesis, characteristics and occurrence. CATENA 168, 14-33, http://doi.org/10.1016/j.catena.2018.02.002

Diaz, N., Dietrich, F., Sebag, D., King, G.E., Valla, P.G., Durand, A., Garcin, Y., de Saulieu, G., Deschamps, P., Herman, F., Verrecchia, E.P., 2018. Pedo-sedimentary constituents as paleoenvironmental proxies in the Sudano-Sahelian belt during the Late Quaternary (southwestern Chad Basin). Quaternary Science Reviews 191, 348-362, http://doi.org/10.1016/j.quascirev.2018.05.022

Durn, G., Rubinić, V., Wacha, L., Patekar, M., Frechen, M., Tsukamoto, S., Tadej, N., Husnjak, S., 2018. Polygenetic soil formation on Late Glacial Loess on the Susak Island reflects paleo-environmental changes in the Northern Adriatic area. Quaternary International 494, 236-247, http://doi.org/10.1016/j.quaint.2017.06.072

Gadot, Y., Davidovich, U., Avni, G., Avni, Y., Piasetzky, M., Faershtein, G., Golan, D., Porat, N., 2016. The formation of a Mediterranean terraced landscape: Mount Eitan, Judean Highlands, Israel. Journal of Archaeological Science: Reports 6, 397-417, http://doi.org/10.1016/j.jasrep.2016.02.028

Porat, N., Davidovich, U., Avni, Y., Avni, G., Gadot, Y., 2018. Using OSL Measurements to Decipher Soil History in Archaeological Terraces, Judean Highlands, Israel. Land Degradation & Development 29, 643-650, http://doi.org/10.1002/ldr.2729

- surface exposure dating

Jenkins, G.T.H., Duller, G.A.T., Roberts, H.M., Chiverrell, R.C., Glasser, N.F., 2018. A new approach for luminescence dating glaciofluvial deposits - High precision optical dating of cobbles. Quaternary Science Reviews 192, 263-273, http://doi.org/10.1016/j.quascirev.2018.05.036

- swamp

May, J.H., Marx, S.K., Reynolds, W., Clark-Balzan, L., Jacobsen, G.E., Preusser, F., 2018. Establishing a chronological framework for a late Quaternary seasonal swamp in the Australian 'Top End'. Quaternary Geochronology 47, 81-92, http://doi.org/10.1016/j.quageo.2018.05.010

- thermochronology

Herman, F., King, G.E., 2018. Luminescence Thermochronometry: Investigating the Link between Mountain Erosion, Tectonics and Climate. Elements 14, 33-38, http://doi.org/10.2138/gselements.14.1.33

King, G.E., Herman, F., Guralnik, B., 2016. Northward migration of the eastern Himalayan syntaxis revealed by OSL thermochronometry. Science 353, 800-804, http://doi.org/10.1126/science.aaf2637

- volcanic

Hasebe, N., Nakano, Y., Miyamoto, H., Higashino, T., Tamura, A., Arai, S., Kim, J.Y., 2016. A multi-geochronological study of the Hakusan volcano, central Japan. Island Arc 25, 111-125, http://doi.org/10.1111/iar.12143

Archaeology applications

Bader, G.D., Tribolo, C., Conard, N.J., 2018. A return to Umbeli Belli: New insights of recent excavations and implications for the final MSA of eastern South Africa. Journal of Archaeological Science: Reports 21, 733-757, http://doi.org/10.1016/j.jasrep.2018.08.043

Bajnóczi, B., Nagy, G., Sipos, G., May, Z., Váczi, T., Tóth, M., Boros, I., Pattantyús, M., 2018. Material analysis and TL dating of a Renaissance glazed terracotta Madonna statue kept in the Museum of Fine Arts, Budapest. Journal of Cultural Heritage 33, 60-70, http://doi.org/10.1016/j.culher.2018.03.015

Blackwell, B.A.B., Sakhrani, N., Singh, I.K., Gopalkrishna, K.K., Tourloukis, V., Panagopoulou, E., Karkanas, P., Blickstein, J.I.B., Skinner, A.R., Florentin, J.A., Harvati, K., 2018. ESR Dating Ungulate Teeth and Molluscs from the Paleolithic Site Marathousa 1, Megalopolis Basin, Greece. Quaternary 1, 22, http://doi.org/10.3390/quat1030022

Brumm, A., Hakim, B., Ramli, M., Aubert, M., van den Bergh, G.D., Li, B., Burhan, B., Saiful, A.M., Siagian, L., Sardi, R., Jusdi, A., Abdullah, Mubarak, A.P., Moore, M.W., Roberts, R.G., Zhao, J.-x., McGahan, D., Jones, B.G., Perston, Y., Szabó, K., Mahmud, M.I., Westaway, K., Jatmiko, Saptomo, E.W., van der Kaars, S., Grün, R., Wood, R., Dodson, J., Morwood, M.J., 2018. A reassessment of the early archaeological record at Leang Burung 2, a Late Pleistocene rock-shelter site on the Indonesian island of Sulawesi. PLOS ONE 13, e0193025, http://doi.org/10.1371/journal.pone.0193025

Burrough, S.L., Thomas, D.S.G., Barham, L.S., 2019. Implications of a new chronology for the interpretation of the Middle and Later Stone Age of the upper Zambezi Valley. Journal of Archaeological Science: Reports 23, 376-389, http://doi.org/10.1016/j.jasrep.2018.10.016

Duval, M., Grün, R., Parés, J.M., Martín-Francés, L., Campaña, I., Rosell, J., Shao, Q., Arsuaga, J.L., Carbonell, E., Bermúdez de Castro, J.M., 2018. The first direct ESR dating of a hominin tooth from Atapuerca Gran Dolina TD-6 (Spain) supports the antiquity of Homo antecessor. Quaternary Geochronology 47, 120-137, http://doi.org/10.1016/j.quageo.2018.05.001

Hershkovitz, I., Duval, M., Grün, R., Mercier, N., Valladas, H., Ayalon, A., Bar-Matthews, M., Weber, G.W., Quam, R., Zaidner, Y., Weinstein-Evron, M., 2018. Response to Comment on "The earliest modern humans outside Africa". Science 362, http://doi.org/10.1126/science.aat8964

Junge, A., Lomax, J., Shahack-Gross, R., Finkelstein, I., Fuchs, M., 2018. Chronology of an ancient water reservoir and the history of human activity in the Negev Highlands, Israel. Geoarchaeology 33, 695-707, http://doi.org/10.1002/gea.21682

Klasen, N., Kehl, M., Mikdad, A., Brückner, H., Weniger, G.-C., 2018. Chronology and formation processes of the Middle to Upper Palaeolithic deposits of Ifri n'Ammar using multi-method luminescence dating and micromorphology. Quaternary International 485, 89-102, http://doi.org/10.1016/j.quaint.2017.10.043

Lauer, T., Weiss, M., 2018. Timing of the Saalian- and Elsterian glacial cycles and the implications for Middle – Pleistocene hominin presence in central Europe. Scientific Reports 8, 5111, http://doi.org/10.1038/s41598-018-23541-w

McDonald, J., Reynen, W., Ditchfield, K., Dortch, J., Leopold, M., Stephenson, B., Whitley, T., Ward, I., Veth, P., 2018. Murujuga Rockshelter: First evidence for Pleistocene occupation on the Burrup Peninsula. Quaternary Science Reviews 193, 266-287, http://doi.org/10.1016/j.quascirev.2018.06.002

Méndez-Quintas, E., Santonja, M., Pérez-González, A., Duval, M., Demuro, M., Arnold, L.J., 2018. First evidence of an extensive Acheulean large cutting tool accumulation in Europe from Porto Maior (Galicia, Spain). Scientific Reports 8, 3082, http://doi.org/10.1038/s41598-018-21320-1

Oddo, M.E., Ricci, P., Angelici, D., Fantino, F., Sibilia, E., Alberghina, M.F., Schiavone, S., Grifa, C., Mercurio, M., Germinario, C., Izzo, F., Langella, A., Massa, E., Bracci, S., Magrini, D., Costa, R., Pelagotti, A., Zuchtriegel, G., Lubritto, C., 2018. Results of diagnostic campaign promoted by AIAr in the

deposits of the Archaeological Museum of Paestum. IOP Conference Series: Materials Science and Engineering 364, 012002, http://doi.org/10.1088/1757-899X/364/1/012002

Pereira, A., Nomade, S., Moncel, M.-H., Voinchet, P., Bahain, J.-J., Biddittu, I., Falguères, C., Giaccio, B., Manzi, G., Parenti, F., Scardia, G., Scao, V., Sottili, G., Vietti, A., 2018. Integrated geochronology of Acheulian sites from the southern Latium (central Italy): Insights on human-environment interaction and the technological innovations during the MIS 11-MIS 10 period. Quaternary Science Reviews 187, 112-129, http://doi.org/10.1016/j.quascirev.2018.03.021

Porat, N., Jain, M., Ronen, A., Horwitz, L.K., 2018. A contribution to late Middle Paleolithic chronology of the Levant: New luminescence ages for the Atlit Railway Bridge site, Coastal Plain, Israel. Quaternary International 464, 32-42, http://doi.org/10.1016/j.quaint.2017.06.017

Porraz, G., Val, A., Tribolo, C., Mercier, N., de la Peña, P., Haaland, M.M., Igreja, M., Miller, C.E., Schmid, V.C., 2018. The MIS5 Pietersburg at '28' Bushman Rock Shelter, Limpopo Province, South Africa. PLOS ONE 13, e0202853, http://doi.org/10.1371/journal.pone.0202853

Roberts, R.G., Jacobs, Z., 2018. Timelines for Human Evolution and Dispersals. Elements 14, 27-32, http://doi.org/10.2138/gselements.14.1.27

Scarborough, V.L., Fladd, S.G., Dunning, N.P., Plog, S., Owen, L.A., Carr, C., Tankersley, K.B., McCool, J.-P., Watson, A.S., Haussner, E.A., Crowley, B., Bishop, K.J., Lentz, D.L., Vivian, R.G., 2018. Water uncertainty, ritual predictability and agricultural canals at Chaco Canyon, New Mexico. Antiquity 92, 870-889, http://doi.org/10.15184/aqy.2018.114

Sharp, W.D., Paces, J.B., 2018. Comment on "The earliest modern humans outside Africa". Science 362, http://doi.org/10.1126/science.aat6598

Shimelmitz, R., Friesem, D.E., Clark, J.L., Groman-Yaroslavski, I., Weissbrod, L., Porat, N., Kandel, A.W., 2018. The Upper Paleolithic and Epipaleolithic of Sefunim Cave, Israel. Quaternary International 464, 106-125, http://doi.org/10.1016/j.quaint.2017.05.039

Singh, A., Thomsen, K.J., Sinha, R., Buylaert, J.-P., Carter, A., Mark, D.F., Mason, P.J., Densmore, A.L., Murray, A.S., Jain, M., Paul, D., Gupta, S., 2017. Counter-intuitive influence of Himalayan river morphodynamics on Indus Civilisation urban settlements. Nature Communications 8, 1617, http://doi.org/10.1038/s41467-017-01643-9

Stella, G., Almeida, L., Basílio, L., Pasquale, S., Dinis, J., Almeida, M., Gueli Anna, M., 2018. Historical building dating: A multidisciplinary study of the Convento de São Francisco (Coimbra, Portugal). Geochronometria 45, 119-129, http://doi.org/10.1515/geochr-2015-0089

Tengis, S.S., S., Munkhbayar, L., Bemmann, J., 2018. Luminescence dating of an ancient walled settlement in Orkhon valley, Mongolia Proceedings of the Mongolian Academy of Sciences 57, http://doi.org/10.5564/pmas.v57i4.918

Vardi, J., Marder, O., Bookman, R., Friesem, D.E., Groman-Yeroslavski, I., Edeltin, L., Porat, N., Boaretto, E., Roskin, J., 2018. Middle to Late Epipaleolithic hunter-gatherer encampments at the Ashalim site, on a linear dune-like morphology, along dunefield margin water bodies. Quaternary International 464, 187-205, http://doi.org/10.1016/j.quaint.2017.06.011

Veres, D., Cosac, M., Schmidt, C., Murătoreanu, G., Hambach, U., Hubay, K., Wulf, S., Karátson, D., 2018. New chronological constraints for Middle Palaeolithic (MIS 6/5-3) cave sequences in Eastern Transylvania, Romania. Quaternary International 485, 103-114, http://doi.org/10.1016/j.quaint.2017.07.015

Waters, M.R., Keene, J.L., Forman, S.L., Prewitt, E.R., Carlson, D.L., Wiederhold, J.E., 2018. Pre-Clovis projectile points at the Debra L. Friedkin site, Texas—Implications for the Late Pleistocene peopling of the Americas. Science Advances 4, http://doi.org/10.1126/sciadv.aat4505

Yaroshevich, A., Shemer, M., Porat, N., Roskin, J., 2018. Flint workshop affiliation: Chronology, technology and site-formation processes at Giv'at Rabbi East, Lower Galilee, Israel. Quaternary International 464, 58-80, http://doi.org/10.1016/j.quaint.2017.03.001

Yee, K.P., Mo, R.H., 2018. Thermoluminescence dating of stalactitic calcite from the early Palaeolithic occupation at Tongamdong site. Journal of Archaeological Science: Reports 19, 405-410, http://doi.org/10.1016/j.jasrep.2018.03.022

Zaidner, Y., Porat, N., Zilberman, E., Herzlinger, G., Almogi-Labin, A., Roskin, J., 2018. Geo-chronological context of the open-air Acheulian site at Nahal Hesi, northwestern Negev, Israel. Quaternary International 464, 18-31, http://doi.org/10.1016/j.quaint.2017.08.023

Various ESR applications

Bacon, A.-M., Duringer, P., Westaway, K., Joannes-Boyau, R., Zhao, J.-x., Bourgon, N., Dufour, E., Pheng, S., Tep, S., Ponche, J.-L., Barnes, L., Blin, A., Patole-Edoumba, E., Demeter, F., 2018. Testing the savannah corridor hypothesis during MIS2: The Boh Dambang hyena site in southern Cambodia. Quaternary International 464, 417-439, http://doi.org/10.1016/j.quaint.2017.10.047

Blackwell, B.A.B., Sakhrani, N., Singh, I.K., Gopalkrishna, K.K., Tourloukis, V., Panagopoulou, E., Karkanas, P., Blickstein, J.I.B., Skinner, A.R., Florentin, J.A., Harvati, K., 2018. ESR Dating Ungulate Teeth and Molluscs from the Paleolithic Site Marathousa 1, Megalopolis Basin, Greece. Quaternary 1, 22, http://doi.org/10.3390/quat1030022

Delmas, M., Calvet, M., Gunnell, Y., Voinchet, P., Manel, C., Braucher, R., Tissoux, H., Bahain, J.-J., Perrenoud, C., Saos, T., 2018. Terrestrial 10Be and electron spin resonance dating of fluvial terraces quantifies quaternary tectonic uplift gradients in the eastern Pyrenees. Quaternary Science Reviews 193, 188-211, http://doi.org/10.1016/j.quascirev.2018.06.001

Duval, M., Grün, R., Parés, J.M., Martín-Francés, L., Campaña, I., Rosell, J., Shao, Q., Arsuaga, J.L., Carbonell, E., Bermúdez de Castro, J.M., 2018. The first direct ESR dating of a hominin tooth from Atapuerca Gran Dolina TD-6 (Spain) supports the antiquity of Homo antecessor. Quaternary Geochronology 47, 120-137, http://doi.org/10.1016/j.quageo.2018.05.001

Fan, Y., Mou, X., Wang, Y., Liu, C., Zhao, H., Wang, F., Li, Z., Mao, X., Liu, W., Ma, J., Liu, C., Zhang, F., Zhang, F., 2018. Quaternary paleoenvironmental evolution of the Tengger Desert and its implications for the provenance of the loess of the Chinese Loess Plateau. Quaternary Science Reviews 197, 21-34, http://doi.org/10.1016/j.quascirev.2018.08.002

Harshman, A., Toyoda, S., Johnson, T., 2018. Suitability of Japanese wild boar tooth enamel for use as an Electron Spin Resonance dosimeter. Radiation Measurements 116, 46-50, http://doi.org/10.1016/j.radmeas.2018.07.001

Hershkovitz, I., Duval, M., Grün, R., Mercier, N., Valladas, H., Ayalon, A., Bar-Matthews, M., Weber, G.W., Quam, R., Zaidner, Y., Weinstein-Evron, M., 2018. Response to Comment on "The earliest modern humans outside Africa". Science 362, http://doi.org/10.1126/science.aat8964

Méndez-Quintas, E., Santonja, M., Pérez-González, A., Duval, M., Demuro, M., Arnold, L.J., 2018. First evidence of an extensive Acheulean large cutting tool accumulation in Europe from Porto Maior (Galicia, Spain). Scientific Reports 8, 3082, http://doi.org/10.1038/s41598-018-21320-1

Pereira, A., Nomade, S., Moncel, M.-H., Voinchet, P., Bahain, J.-J., Biddittu, I., Falguères, C., Giaccio, B., Manzi, G., Parenti, F., Scardia, G., Scao, V., Sottili, G., Vietti, A., 2018. Integrated geochronology of Acheulian sites from the southern Latium (central Italy): Insights on human-environment interaction and the technological innovations during the MIS 11-MIS 10 period. Quaternary Science Reviews 187, 112-129, http://doi.org/10.1016/j.quascirev.2018.03.021

Qiu, D., Liu, Q., Yun, J., Jin, Z., Zhu, D., Li, T., Sun, D., 2018. Electron spin resonance (ESR) dating of pre-Quaternary faults in the Sichuan basin, SW China. Journal of Asian Earth Sciences 163, 142-151, http://doi.org/10.1016/j.jseaes.2018.06.011

Sharp, W.D., Paces, J.B., 2018. Comment on "The earliest modern humans outside Africa". Science 362, http://doi.org/10.1126/science.aat6598

Tarı, U., Tüysüz, O., Blackwell, B.A.B., Mahmud, Z., Florentin, J.A., Qi, J., Genç, Ş.C., Skinner, A.R., 2018. Sealevel change and tectonic uplift from dated marine terraces along the eastern Mediterranean coast, southeastern Turkey. Palaeogeography, Palaeoclimatology, Palaeoecology 511, 80-102, http://doi.org/10.1016/j.palaeo.2018.07.003

Toyoda, S., 2019. Recent Issues in X-Band ESR Tooth Enamel Dosimetry, in: Shukla, A.K. (Ed.), Electron Spin Resonance Spectroscopy in Medicine. Springer Singapore, Singapore, pp. 135-151, http://doi.org/10.1007/978-981-13-2230-3_7

Basic research

Amit, G., Datz, H., 2018. Automatic detection of anomalous thermoluminescent dosimeter glow curves using machine learning. Radiation Measurements 117, 80-85, http://doi.org/10.1016/j.radmeas.2018.07.014

Anechitei-Deacu, V., Timar-Gabor, A., Constantin, D., Trandafir-Antohi, O., Valle Laura, D., Fornós Joan, J., Gómez-pujol, L., Wintle Ann, G., 2018. Assessing the maximum limit of SAR-OSL dating using quartz of different grain sizes. Geochronometria 45, 146-159, http://doi.org/10.1515/geochr-2015-0092

Chen, R., Lawless, J.L., Pagonis, V., 2018. Thermoluminescence associated with two-hole recombination centers. Radiation Measurements 115, 1-6, http://doi.org/10.1016/j.radmeas.2018.05.004

Chruścińska, A., Szramowski, A., 2018. Thermally modulated optically stimulated luminescence (TM-OSL) of quartz. Journal of Luminescence 195, 435-440, http://doi.org/10.1016/j.jlumin.2017.12.004

Coleman, A.C., Yukihara, E.G., 2018. On the validity and accuracy of the initial rise method investigated using realistically simulated thermoluminescence curves. Radiation Measurements 117, 70-79, http://doi.org/10.1016/j.radmeas.2018.07.010

Fu, X., Li, S.-H., Cohen, T.J., 2018. Testing the applicability of a partial bleach method for post-IR IRSL dating of Holocene-aged K-feldspar samples. Quaternary Geochronology 47, 1-13, http://doi.org/10.1016/j.quageo.2018.04.003

Gray, H.J., Tucker, G.E., Mahan, S.A., 2018. Application of a Luminescence-Based Sediment Transport Model. Geophysical Research Letters 45, 6071-6080, http://doi.org/10.1029/2018GL078210

Guérin, G., Mihailescu, L.-C., Jain, M., 2018. Photon energy (8–250 keV) response of optically stimulated luminescence: Implications for luminescence geochronology. Journal of Luminescence 204, 135-144, http://doi.org/10.1016/j.jlumin.2018.07.047

Kalita, J.M., Chithambo, M.L., 2019. Phototransferred thermoluminescence and thermally-assisted optically stimulated luminescence dosimetry using α-Al2O3:C,Mg annealed at 1200 °C. Journal of Luminescence 205, 1-6, http://doi.org/10.1016/j.jlumin.2018.08.085

Kim, M.-J., Kim, K.-B., Hong, D.-G., 2018. Optical Sensitivity of TL Glow Peaks Separated Using Computerized Glow Curve Deconvolution for RTL Quartz. Journal of Radiation Protection and Research 43, 114-119, http://doi.org/10.14407/jrpr.2018.43.3.114

Kumar, M., 2017. Comments on 'Derivation of general order kinetics equation using probability theory by Longjam Lovedy Singh'. Radiation Effects and Defects in Solids 172, 695-698, http://doi.org/10.1080/10420150.2017.1371173

Li, F., Pan, B., Lai, Z., Gao, H., Ou, X., 2018. Identifying the degree of luminescence signal bleaching in fluvial sediments from the Inner Mongolian reaches of the Yellow River. Geochronometria 45, 82-96, http://doi.org/10.1515/geochr-2015-0087

Ogata, M., Hasebe, N., Fujii, N., Yamakawa, M., 2017. Measuring apparent dose rate factors using beta and gamma rays, and alpha efficiency for precise thermoluminescence dating of calcite. Journal of Mineralogical and Petrological Sciences 112, 336-345, http://doi.org/10.2465/jmps.161126

Pagonis, V., Kitis, G., Polymeris, G.S., 2018. On the half-life of luminescence signals in dosimetric applications: A unified presentation. Physica B: Condensed Matter 539, 35-43, http://doi.org/10.1016/j.physb.2018.03.054

Pagonis, V., Truong, P., 2018. Thermoluminescence due to tunneling in nanodosimetric materials: A Monte Carlo study. Physica B: Condensed Matter 531, 171-179, http://doi.org/10.1016/j.physb.2017.12.042

Pagonis, V., Vieira, F.M.d.S., Chambers, A., Anthony, L., 2018. Thermoluminescence glow curves in preheated feldspar: A Monte Carlo study. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms 436, 249-256, http://doi.org/10.1016/j.nimb.2018.09.036

Prasad, A.K., Jain, M., 2018. Breakdown of Kasha's Rule in a Ubiquitous, Naturally Occurring, Wide Bandgap Aluminosilicate (Feldspar). Scientific Reports 8, 810, http://doi.org/10.1038/s41598-017-17466-z

Prasad, A.K., Jain, M., 2018. Dynamics of the deep red Fe3+ photoluminescence emission in feldspar. Journal of Luminescence 196, 462-469, http://doi.org/10.1016/j.jlumin.2017.11.051

Sadek, A.M., Kitis, G., 2018. Impact of non-fulfillment of the super position principle on the analysis of thermoluminescence glow-curve. Radiation Measurements 116, 14-23, http://doi.org/10.1016/j.radmeas.2018.06.016

Sahai, M.K., Bakshi, A.K., Datta, D., 2018. Revisit to power law decay of luminescence. Journal of Luminescence 195, 240-246, http://doi.org/10.1016/j.jlumin.2017.11.032

Schmidt, C., Bösken, J., Kolb, T., 2018. Is there a common alpha-efficiency in polymineral samples measured by various infrared stimulated luminescence protocols? Geochronometria 45, 160-172, http://doi.org/10.1515/geochr-2015-0095

Schmidt, C., Friedrich, J., Adamiec, G., Chruścińska, A., Fasoli, M., Kreutzer, S., Martini, M., Panzeri, L., Polymeris, G.S., Przegiętka, K., Valla, P.G., King, G.E., Sanderson, D.C.W., 2018. How reproducible are kinetic parameter constraints of quartz luminescence? An interlaboratory comparison for the 110 °C TL peak. Radiation Measurements 110, 14-24, http://doi.org/10.1016/j.radmeas.2018.01.002

Singh, L.L., 2017. Derivation of general order kinetics equation using probability theory. Radiation Effects and Defects in Solids 172, 271-274, http://doi.org/10.1080/10420150.2017.1303836

Singh, L.L., 2017. Reply to the comments of Munish Kumar of "Derivation of general order kinetics equation using probability theory by Longjam Lovedy". Radiation Effects and Defects in Solids 172, 699-701, http://doi.org/10.1080/10420150.2017.1371172

Tailby, N.D., Cherniak, D.J., Watson, E.B., 2018. Al diffusion in quartz. American Mineralogist 103, 839-847, http://doi.org/10.2138/am-2018-5613

Thomas, S., Chithambo, M.L., 2018. General features and kinetic analysis of thermoluminescence from annealed natural quartz. Journal of Luminescence 197, 406-411, http://doi.org/10.1016/j.jlumin.2018.02.003

Vaccaro, G., Panzeri, L., Monti, A.M., Martini, M., Fasoli, M., 2019. Optical bleaching of the 375 °C TL peak, [GeO4/Li+]0 EPR center and OSL signal in irradiated natural quartz. Journal of Luminescence 205, 61-65, http://doi.org/10.1016/j.jlumin.2018.08.046

Yüksel, M., 2017. Thermoluminescence and dosimetric characteristics study of quartz samples from Seyhan Dam Lake Terraces. Canadian Journal of Physics 96, 779-783, http://doi.org/10.1139/cjp-2017-0741

Dose rate issues

Guérin, G., 2018. Innovative Dose Rate Determinations for Luminescence Dating. Elements 14, 15-20, http://doi.org/10.2138/gselements.14.1.15

Kreutzer, S., Martin, L., Guérin, G., Tribolo, C., Selva, P., Mercier, N., 2018. Environmental dose rate determination using a passive dosimeter: Techniques and workflow for α-Al2O3:C chips. Geochronometria 45, 56-67, http://doi.org/10.1515/geochr-2015-0086

Dosimetry

Harshman, A., Toyoda, S., Johnson, T., 2018. Suitability of Japanese wild boar tooth enamel for use as an Electron Spin Resonance dosimeter. Radiation Measurements 116, 46-50, http://doi.org/10.1016/j.radmeas.2018.07.001

Kalita, J.M., Chithambo, M.L., 2019. Phototransferred thermoluminescence and thermally-assisted optically stimulated luminescence dosimetry using α-Al2O3:C,Mg annealed at 1200 °C. Journal of Luminescence 205, 1-6, http://doi.org/10.1016/j.jlumin.2018.08.085

Kandemir, A., Toktamış, H., 2018. Thermoluminescence studies of SIM card chips used in mobile communication providers in Turkey. Radiation Physics and Chemistry 149, 84-89, http://doi.org/10.1016/j.radphyschem.2018.04.002

Singh, A.K., Menon, S.N., Kadam, S.Y., Koul, D.K., Datta, D., 2018. OSL properties of three commonly available salt brands in India for its use in accident dosimetry. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms 419, 38-43, http://doi.org/10.1016/j.nimb.2018.01.027

Toyoda, S., 2019. Recent Issues in X-Band ESR Tooth Enamel Dosimetry, in: Shukla, A.K. (Ed.), Electron Spin Resonance Spectroscopy in Medicine. Springer Singapore, Singapore, pp. 135-151, http://doi.org/10.1007/978-981-13-2230-3_7

Beyond quartz and K-feldspar: non-traditional minerals

- calcite

Duller, G.A.T., Roberts, H.M., 2018. Seeing Snails in a New Light. Elements 14, 39-43, http://doi.org/10.2138/gselements.14.1.39

Yee, K.P., Mo, R.H., 2018. Thermoluminescence dating of stalactitic calcite from the early Palaeolithic occupation at Tongamdong site. Journal of Archaeological Science: Reports 19, 405-410, http://doi.org/10.1016/j.jasrep.2018.03.022

- salt

Singh, A.K., Menon, S.N., Kadam, S.Y., Koul, D.K., Datta, D., 2018. OSL properties of three commonly available salt brands in India for its use in accident dosimetry. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms 419, 38-43, http://doi.org/10.1016/j.nimb.2018.01.027

Review

Bos, A., 2017. Thermoluminescence as a Research Tool to Investigate Luminescence Mechanisms. Materials 10, 1357, http://www.mdpi.com/1996-1944/10/12/1357

Duller, G.A.T., Roberts, H.M., 2018. Seeing Snails in a New Light. Elements 14, 39-43, http://doi.org/10.2138/gselements.14.1.39

Guérin, G., 2018. Innovative Dose Rate Determinations for Luminescence Dating. Elements 14, 15-20, http://doi.org/10.2138/gselements.14.1.15

Guibert, P., 2018. Dater, une histoire qui date ! ArchéoSciences 42-1, 85-101, https://www.cairn.info/revue-archeosciences-2018-1-page-85.htm

Herman, F., King, G.E., 2018. Luminescence Thermochronometry: Investigating the Link between Mountain Erosion, Tectonics and Climate. Elements 14, 33-38, http://doi.org/10.2138/gselements.14.1.33

Rittenour, T.M., 2018. Dates and Rates of Earth-Surface Processes Revealed using Luminescence Dating. Elements 14, 21-26, http://doi.org/10.2138/gselements.14.1.21

Roberts, R.G., Jacobs, Z., 2018. Timelines for Human Evolution and Dispersals. Elements 14, 27-32, http://doi.org/10.2138/gselements.14.1.27

Sears, D.W.G., 2018. Shedding Light: The luminescent glow of meteorites and moon rocks. CreateSpace Independent Publishing Platform, https://www.amazon.com/Shedding-Light-luminescent-meteorites-rocks/dp/1725929643

Sears, D.W.G., Ninagawa, K., Singhvi, A., 2018. Glimmerings of the Past: The Luminescence Properties of Meteorites and Lunar Samples with an Emphasis on Applications. CreateSpace Independent Publishing Platform, https://www.amazon.com/Glimmerings-Past-Luminescence-Properties-Applications/dp/1723236276

Smedley, R.K., 2018. Telling the Time with Dust, Sand and Rocks. Elements 14, 9-14, http://doi.org/10.2138/gselements.14.1.9

Toyoda, S., 2019. Recent Issues in X-Band ESR Tooth Enamel Dosimetry, in: Shukla, A.K. (Ed.), Electron Spin Resonance Spectroscopy in Medicine. Springer Singapore, Singapore, pp. 135-151, http://doi.org/10.1007/978-981-13-2230-3_7