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Bibliography

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Various geological applications

- aeolian

- Buckland, C.E., Bailey, R.M., Thomas, D.S.G., 2018. Identifying chronostratigraphic breaks in aeolian sediment profiles using near-surface luminescence dating and changepoint analysis. *Quaternary Geochronology* 46, 45-58, <http://doi.org/10.1016/j.quageo.2018.03.011>
- Fitzsimmons, K.E., Sprafke, T., Zielhofer, C., Günter, C., Deom, J.-M., Sala, R., Iovita, R., 2018. Loess accumulation in the Tian Shan piedmont: Implications for palaeoenvironmental change in arid Central Asia. *Quaternary International* 469, 30-43, <http://doi.org/10.1016/j.quaint.2016.07.041>
- Guo, L., Xiong, S., Yang, P., Ye, W., Jin, G., Wu, W., Zhao, H., 2018. Holocene environmental changes in the Horqin desert revealed by OSL dating and $\delta^{13}\text{C}$ analyses of paleosols. *Quaternary International* 469, 11-19, <http://doi.org/10.1016/j.quaint.2017.06.048>
- Nash, D.J., Bateman, M.D., Bullard, J.E., Latorre, C., 2018. Late Quaternary coastal evolution and aeolian sedimentation in the tectonically-active southern Atacama Desert, Chile. *Palaeogeography, Palaeoclimatology, Palaeoecology* 490, 546-562, <http://doi.org/10.1016/j.palaeo.2017.11.040>
- Rowell, A., Thomas, D., Bailey, R., Stone, A., Garzanti, E., Padoan, M., 2018. Controls on sand ramp formation in southern Namibia. *Earth Surface Processes and Landforms* 43, 150-171, <http://doi.org/10.1002/esp.4159>
- Rowell, A.L.K., Thomas, D.S.G., Bailey, R.M., Holmes, P.J., 2018. Sand ramps as palaeoenvironmental archives: Integrating general principles and regional contexts through reanalysis of the Klipkraal Sands, South Africa. *Geomorphology* 311, 103-113, <http://doi.org/10.1016/j.geomorph.2018.03.021>
- Sevink, J., van Geel, B., Jansen, B., Wallinga, J., 2018. Early Holocene forest fires, drift sands, and Usselo-type paleosols in the Laarder Wasmeren area near Hilversum, the Netherlands: Implications for the history of sand landscapes and the potential role of Mesolithic land use. *CATENA* 165, 286-298, <http://doi.org/10.1016/j.catena.2018.02.016>
- Xu, Y., Lai, Z., Chen, T., Gong, S., 2018. Late Quaternary optically stimulated luminescence (OSL) chronology and environmental changes in the Hobq Desert, northern China. *Quaternary International* 470, 18-25, <http://doi.org/10.1016/j.quaint.2017.06.010>

- alluvial fan

- Lehmkuhl, F., Nottebaum, V., Hülle, D., 2018. Aspects of late Quaternary geomorphological development in the Khangai Mountains and the Gobi Altai Mountains (Mongolia). *Geomorphology* 312, 24-39, <http://doi.org/10.1016/j.geomorph.2018.03.029>

- cave

Bacon, A.-M., Antoine, P.-O., Huong, N.T.M., Westaway, K., Tuan, N.A., Düringer, P., Zhao, J.-x., Ponche, J.-L., Dung, S.C., Nghia, T.H., Minh, T.T., Son, P.T., Boyon, M., Thuy, N.T.K., Blin, A., Demeter, F., 2018. A rhinocerotid-dominated megafauna at the MIS6-5 transition: The late Middle Pleistocene Coc Muoi assemblage, Lang Son province, Vietnam. *Quaternary Science Reviews* 186, 123-141, <http://doi.org/10.1016/j.quascirev.2018.02.017>

- coastal

Cawthra, H.C., Jacobs, Z., Compton, J.S., Fisher, E.C., Karkanas, P., Marean, C.W., 2018. Depositional and sea-level history from MIS 6 (Termination II) to MIS 3 on the southern continental shelf of South Africa. *Quaternary Science Reviews* 181, 156-172, <http://doi.org/10.1016/j.quascirev.2017.12.002>

Ito, K., Tamura, T., Tsukamoto, S., 2017. Post-IR IRSL dating of K-feldspar from last interglacial marine terrace deposits on the Kamikita coastal plain, northeastern Japan. *Geochronometria* 44, 352-365, <http://doi.org/10.1515/geochr-2015-0077>

Jiang, T., Liu, X., Yu, T., Hu, Y., 2018. OSL dating of late Holocene coastal sediments and its implication for sea-level eustasy in Hainan Island, Southern China. *Quaternary International* 468, 24-32, <http://doi.org/10.1016/j.quaint.2017.11.039>

Kenzler, M., Rother, H., Hüneke, H., Frenzel, P., Strahl, J., Tsukamoto, S., Li, Y., Meng, S., Gallas, J., Frechen, M., 2018. A multi-proxy palaeoenvironmental and geochronological reconstruction of the Saalian-Eemian-Weichselian succession at Klein Klütz Höved, NE Germany. *Boreas* 47, 114-136, <http://doi.org/10.1111/bor.12255>

Laermanns, H., Kelterbaum, D., May, S.M., Elashvili, M., Opitz, S., Hülle, D., Rölkens, J., Verheul, J., Riedesel, S., Brückner, H., 2018. Mid- to Late Holocene landscape changes in the Rioni delta area (Kolkheti lowlands, W Georgia). *Quaternary International* 465, 85-98, <http://doi.org/10.1016/j.quaint.2016.12.037>

May, S.M., Gelhausen, H., Brill, D., Callow, J.N., Engel, M., Opitz, S., Scheffers, A., Joannes-Boyau, R., Leopold, M., Brückner, H., 2018. Chenier-type ridges in Giralalia Bay (Exmouth Gulf, Western Australia) - Processes, chronostratigraphy, and significance for recording past tropical cyclones. *Marine Geology* 396, 186-204, <http://doi.org/10.1016/j.margeo.2017.03.005>

Muhs, D.R., Pigati, J.S., Schumann, R.R., Skipp, G.L., Porat, N., DeVogel, S.B., 2018. Quaternary sea-level history and the origin of the northernmost coastal aeolianites in the Americas: Channel Islands National Park, California, USA. *Palaeogeography, Palaeoclimatology, Palaeoecology* 491, 38-76, <http://doi.org/10.1016/j.palaeo.2017.11.042>

Muru, M., Rosentau, A., Preusser, F., Plado, J., Sibul, I., Jõelet, A., Bjursäter, S., Aunap, R., Kriiska, A., 2018. Reconstructing Holocene shore displacement and Stone Age palaeogeography from a foredune sequence on Ruhnu Island, Gulf of Riga, Baltic Sea. *Geomorphology* 303, 434-445, <http://doi.org/10.1016/j.geomorph.2017.12.016>

Oliver, T.S.N., Kennedy, D.M., Tamura, T., Murray-Wallace, C.V., Konlechner, T.M., Augustinus, P.C., Woodroffe, C.D., 2018. Interglacial-glacial climatic signatures preserved in a regressive coastal barrier, southeastern Australia. *Palaeogeography, Palaeoclimatology, Palaeoecology* 501, 124-135, <http://doi.org/10.1016/j.palaeo.2018.04.011>

Tamura, T., Ito, K., Inoue, T., Sakai, T., 2017. Luminescence dating of Holocene beach-ridge sands on the Yumigahama Peninsula, western Japan. *Geochronometria* 44, 331-340, <http://doi.org/10.1515/geochr-2015-0076>

- Tamura, T., Nicholas, W.A., Oliver, T.S.N., Brooke, B.P., 2018. Coarse-sand beach ridges at Cowley Beach, north-eastern Australia: Their formative processes and potential as records of tropical cyclone history. *Sedimentology* 65, 721-744, <http://doi.org/10.1111/sed.12402>
- Taylor, A.K., Benedetti, M.M., Haws, J.A., Lane, C.S., 2018. Mid-Holocene Iberian hydroclimate variability and paleoenvironmental change: molecular and isotopic insights from Praia Rei Cortiço, Portugal. *Journal of Quaternary Science* 33, 79-92, <http://doi.org/10.1002/jqs.3000>
- Walker, J., Lees, B., Olley, J., Thompson, C., 2018. Dating the Cooloolool coastal dunes of South-Eastern Queensland, Australia. *Marine Geology* 398, 73-85, <http://doi.org/10.1016/j.margeo.2017.12.010>
- Wang, Z., Ryves, D.B., Lei, S., Nian, X., Lv, Y., Tang, L., Wang, L., Wang, J., Chen, J., 2018. Middle Holocene marine flooding and human response in the south Yangtze coastal plain, East China. *Quaternary Science Reviews* 187, 80-93, <http://doi.org/10.1016/j.quascirev.2018.03.001>
- Werner, V., Baika, K., Fischer, P., Hadler, H., Obrocki, L., Willershäuser, T., Tzigounaki, A., Tsigkou, A., Reicherter, K., Papanikolaou, I., Emde, K., Vött, A., 2018. The sedimentary and geomorphological imprint of the AD 365 tsunami on the coasts of southwestern Crete (Greece) – Examples from Sougia and Palaiochora. *Quaternary International* 473, 66-90, <http://doi.org/10.1016/j.quaint.2017.07.016>

- coastal (delta)

- Chamberlain, E.L., Törnqvist, T.E., Shen, Z., Mauz, B., Wallinga, J., 2018. Anatomy of Mississippi Delta growth and its implications for coastal restoration. *Science Advances* 4, <http://doi.org/10.1126/sciadv.aar4740>
- Hijma, M.P., Shen, Z., Törnqvist, T.E., Mauz, B., 2017. Late Holocene evolution of a coupled, mud-dominated delta plain–chenier plain system, coastal Louisiana, USA. *Earth Surface Dynamics* 5, 689-710, <http://doi.org/10.5194/esurf-5-689-2017>
- Nian, X., Zhang, W., Wang, Z., Sun, Q., Chen, J., Chen, Z., 2018. Optical dating of Holocene sediments from the Yangtze River (Changjiang) Delta, China. *Quaternary International* 467, 251-263, <http://doi.org/10.1016/j.quaint.2018.01.011>
- Nian, X., Zhang, W., Wang, Z., Sun, Q., Chen, J., Chen, Z., Hutchinson, S.M., 2018. The chronology of a sediment core from incised valley of the Yangtze River delta: Comparative OSL and AMS 14C dating. *Marine Geology* 395, 320-330, <http://doi.org/10.1016/j.margeo.2017.11.008>

- colluvial

- Kołodźńska-Gawrysiak, R., Poesen, J., Gawrysiak, L., 2018. Assessment of long-term Holocene soil erosion rates in Polish loess areas using sedimentary archives from closed depressions. *Earth Surface Processes and Landforms* 43, 978-1000, <http://doi.org/10.1002/esp.4296>

- earthquake (and fault related)

- Maestrelli, D., Benvenuti, M., Bonini, M., Carnicelli, S., Piccardi, L., Sani, F., 2018. The structural hinge of a chain-foreland basin: Quaternary activity of the Pede-Apennine Thrust front (Northern Italy). *Tectonophysics* 723, 117-135, <http://doi.org/10.1016/j.tecto.2017.12.006>
- Yang, H., Chen, J., Porat, N., Li, T., Li, W., Xiao, W., 2017. Coarse versus fine-grain quartz optical dating of the sediments related to the 1985 Ms7.1 Wujia earthquake, northeastern margin of the Pamir salient, China. *Geochronometria* 44, 299-306, <http://doi.org/10.1515/geochr-2015-0075>

Zinke, R., Dolan, J.F., Rhodes, E.J., Van Dissen, R., McGuire, C.P., 2017. Highly Variable Latest Pleistocene-Holocene Incremental Slip Rates on the Awatere Fault at Saxton River, South Island, New Zealand, Revealed by Lidar Mapping and Luminescence Dating. *Geophysical Research Letters* 44, 11,301-311,310, <http://doi.org/10.1002/2017GL075048>

- fluvial

Abrahami, R., Huyghe, P., van der Beek, P., Lowick, S., Carcaillet, J., Chakraborty, T., 2018. Late Pleistocene - Holocene development of the Tista megafan (West Bengal, India): ¹⁰Be cosmogenic and IRSL age constraints. *Quaternary Science Reviews* 185, 69-90, <http://doi.org/10.1016/j.quascirev.2018.02.001>

Bartley, R., Thompson, C., Croke, J., Pietsch, T., Baker, B., Hughes, K., Kinsey-Henderson, A., 2018. Insights into the history and timing of post-European land use disturbance on sedimentation rates in catchments draining to the Great Barrier Reef. *Marine Pollution Bulletin* 131, Part A, 530-546, <http://doi.org/10.1016/j.marpolbul.2018.04.070>

Bartz, M., Rixhon, G., Duval, M., King, G.E., Álvarez Posada, C., Parés, J.M., Brückner, H., 2018. Successful combination of electron spin resonance, luminescence and palaeomagnetic dating methods allows reconstruction of the Pleistocene evolution of the lower Moulouya river (NE Morocco). *Quaternary Science Reviews* 185, 153-171, <http://doi.org/10.1016/j.quascirev.2017.11.008>

Basu, S., Sanyal, P., Sahoo, K., Chauhan, N., Sarkar, A., Juyal, N., 2018. Variation in monsoonal rainfall sources (Arabian Sea and Bay of Bengal) during the late Quaternary: Implications for regional vegetation and fluvial systems. *Palaeogeography, Palaeoclimatology, Palaeoecology* 491, 77-91, <http://doi.org/10.1016/j.palaeo.2017.11.051>

Bufe, A., Burbank, D.W., Liu, L., Bookhagen, B., Qin, J., Chen, J., Li, T., Thompson, J.J.A., Yang, H., 2017. Variations of Lateral Bedrock Erosion Rates Control Planation of Uplifting Folds in the Foreland of the Tian Shan, NW China. *Journal of Geophysical Research: Earth Surface* 122, 2431-2467, <http://doi.org/doi:10.1002/2016JF004099>

Cheng, Z., Weng, C., Guo, J., Dai, L., Zhou, Z., 2018. Vegetation responses to late Quaternary climate change in a biodiversity hotspot, the Three Parallel Rivers region in southwestern China. *Palaeogeography, Palaeoclimatology, Palaeoecology* 491, 10-20, <http://doi.org/10.1016/j.palaeo.2017.11.032>

Guo, Y., Huang, C.C., Zhou, Y., Pang, J., Zha, X., Fan, L., Mao, P., 2018. Sedimentary record and luminescence chronology of palaeoflood events along the Gold Gorge of the upper Hanjiang River, middle Yangtze River basin, China. *Journal of Asian Earth Sciences* 156, 96-110, <http://doi.org/10.1016/j.jseaes.2017.12.034>

Jonell, T.N., Owen, L.A., Carter, A., Schwenniger, J.-L., Clift, P.D., 2017. Quantifying episodic erosion and transient storage on the western margin of the Tibetan Plateau, upper Indus River. *Quaternary Research* 89, 281-306, <http://doi.org/10.1017/qua.2017.92>

Li, Y., Tsukamoto, S., Frechen, M., Gabriel, G., 2018. Timing of fluvial sedimentation in the Upper Rhine Graben since the Middle Pleistocene: constraints from quartz and feldspar luminescence dating. *Boreas* 47, 256-270, <http://doi.org/10.1111/bor.12266>

Ramírez-Herrera, M.T., Gaidzik, K., Forman, S., Kostoglodov, V., Bürgmann, R., Johnson, C.W., 2018. Relating the long-term and short-term vertical deformation across a transect of the forearc in the central Mexican subduction zone. *Geosphere* 14, 419-439, <http://doi.org/10.1130/GES01446.1>

Resmi, M.R., Achyuthan, H., Jaiswal, M.K., 2017. Holocene tectonic uplift using geomorphometric parameters, GIS and OSL dating: Palar River basin, southern peninsular India. *Zeitschrift für Geomorphologie* 61, 243-265, <http://doi.org/10.1127/zfg/2017/0433>

- Thompson, J.A., Chen, J., Yang, H., Li, T., Bookhagen, B., Burbank, D., 2018. Coarse- versus fine-grain quartz OSL and cosmogenic ^{10}Be dating of deformed fluvial terraces on the northeast Pamir margin, northwest China. *Quaternary Geochronology* 46, 1-15, <http://doi.org/10.1016/j.quageo.2018.01.002>
- Tóth, O., Sipos, G., Kiss, T., Bartyik, T., 2017. Variation of OSL residual doses in terms of coarse and fine grain modern sediments along the Hungarian section of the Danube. *Geochronometria* 44, 319-330, <http://doi.org/10.1515/geochr-2015-0079>
- glacial**
- Bateman, M.D., Evans, D.J.A., Roberts, D.H., Medialdea, A., Ely, J., Clark, C.D., 2018. The timing and consequences of the blockage of the Humber Gap by the last British–Irish Ice Sheet. *Boreas* 47, 41-61, <http://doi.org/10.1111/bor.12256>
- Bateman, M.D., Swift, D.A., Piotrowski, J.A., Rhodes, E.J., Damsgaard, A., 2018. Can glacial shearing of sediment reset the signal used for luminescence dating? *Geomorphology* 306, 90-101, <http://doi.org/10.1016/j.geomorph.2018.01.017>
- Dalton, A.S., Finkelstein, S.A., Barnett, P.J., Välranta, M., Forman, S.L., 2018. Late Pleistocene chronology, palaeoecology and stratigraphy at a suite of sites along the Albany River, Hudson Bay Lowlands, Canada. *Palaeogeography, Palaeoclimatology, Palaeoecology* 492, 50-63, <http://doi.org/10.1016/j.palaeo.2017.12.011>
- Ganju, A., Nagar, Y.C., Sharma, L.N., Sharma, S., Juyal, N., 2018. Luminescence chronology and climatic implication of the late quaternary glaciation in the Nubra valley, Karakoram Himalaya, India. *Palaeogeography, Palaeoclimatology, Palaeoecology* 502, 52-62, <http://doi.org/10.1016/j.palaeo.2018.04.022>
- Gribenski, N., Jansson, K.N., Preusser, F., Harbor, J.M., Stroeve, A.P., Trauerstein, M., Blomdin, R., Heyman, J., Caffee, M.W., Lifton, N.A., Zhang, W., 2018. Re-evaluation of MIS 3 glaciation using cosmogenic radionuclide and single grain luminescence ages, Kanas Valley, Chinese Altai. *Journal of Quaternary Science* 33, 55-67, <http://doi.org/10.1002/jqs.2998>
- Lang, J., Lauer, T., Winsemann, J., 2018. New age constraints for the Saalian glaciation in northern central Europe: Implications for the extent of ice sheets and related proglacial lake systems. *Quaternary Science Reviews* 180, 240-259, <http://doi.org/10.1016/j.quascirev.2017.11.029>
- Margold, M., Jansen, J.D., Codilean, A.T., Preusser, F., Gurinov, A.L., Fujioka, T., Fink, D., 2018. Repeated megafloods from glacial Lake Vitim, Siberia, to the Arctic Ocean over the past 60,000 years. *Quaternary Science Reviews* 187, 41-61, <http://doi.org/10.1016/j.quascirev.2018.03.005>
- Rades, E.F., Fiebig, M., Lüthgens, C., 2018. Luminescence dating of the Rissian type section in southern Germany as a base for correlation. *Quaternary International* 478, 38-50, <http://doi.org/10.1016/j.quaint.2016.07.055>
- Sacco, D.A., Ward, B.C., Lian, O.B., Maynard, D.E., Geertsema, M., 2017. Quaternary geology of part of the McLeod Lake map area (NTS 093J), central British Columbia: lithostratigraphy, glacial history, and chronology. *Canadian Journal of Earth Sciences* 54, 1063-1084, <http://doi.org/10.1139/cjes-2016-0198>
- Shukla, T., Mehta, M., Jaiswal, M.K., Srivastava, P., Dobhal, D.P., Nainwal, H.C., Singh, A.K., 2018. Late Quaternary glaciation history of monsoon-dominated Dingad basin, central Himalaya, India. *Quaternary Science Reviews* 181, 43-64, <http://doi.org/10.1016/j.quascirev.2017.11.032>
- Shulmeister, J., Thackray, G.D., Rittenour, T.M., Hyatt, O.M., 2018. Multiple glacial advances in the Rangitata Valley, South Island, New Zealand, imply roles for Southern Hemisphere westerlies and summer insolation in MIS 3 glacial advances. *Quaternary Research* 89, 375-393, <http://doi.org/10.1017/qua.2017.108>

- glacial (lacustrine)

- Smith, L.N., Sohbat, R., Buylaert, J.-P., Lian, O.B., Murray, A., Jain, M., 2018. Timing of lake-level changes for a deep last-glacial Lake Missoula: optical dating of the Garden Gulch area, Montana, USA. *Quaternary Science Reviews* 183, 23-35, <http://doi.org/10.1016/j.quascirev.2018.01.009>

- lacustrine

- Alivernini, M., Lai, Z., Frenzel, P., Fürstenberg, S., Wang, J., Guo, Y., Peng, P., Haberzettl, T., Börner, N., Mischke, S., 2018. Late quaternary lake level changes of Taro Co and neighbouring lakes, southwestern Tibetan Plateau, based on OSL dating and ostracod analysis. *Global and Planetary Change* 166, 1-18, <http://doi.org/10.1016/j.gloplacha.2018.03.016>
- Hu, G., Yi, C., Zhang, J., Cao, G., Pan, B., Liu, J., Jiang, T., Yi, S., Li, D., Huang, J., 2018. Chronology of a lacustrine core from Lake Linggo Co using a combination of OSL, ¹⁴C and ²¹⁰Pb dating: implications for the dating of lacustrine sediments from the Tibetan Plateau. *Boreas* 47, 656-670, <http://doi.org/doi:10.1111/bor.12291>
- Kostecki, R., Moska, P., 2017. Baltic Sea Holocene evolution based on OSL and radiocarbon dating: evidence from a sediment core from the Arkona Basin (the southwestern Baltic Sea). *Oceanological and Hydrobiological Studies* 46, 294, <http://doi.org/10.1515/ohs-2017-0031>
- Smith, L.N., Sohbat, R., Buylaert, J.-P., Lian, O.B., Murray, A., Jain, M., 2018. Timing of lake-level changes for a deep last-glacial Lake Missoula: optical dating of the Garden Gulch area, Montana, USA. *Quaternary Science Reviews* 183, 23-35, <http://doi.org/10.1016/j.quascirev.2018.01.009>
- Teller, J.T., McGinn, R.A., Rajapara, H.M., Shukla, A.D., Singhvi, A.K., 2018. Optically stimulated luminescence ages from the Lake Agassiz basin in Manitoba. *Quaternary Research* 89, 478-493, <http://doi.org/10.1017/qua.2017.107>
- Tse, Y.-Y., Li, S.-H., 2017. Optical dating of sediments from manas lake in northwestern china: Paleoenvironmental and neotectonic implications. *Geochronometria* 44, 175-187, <http://doi.org/10.1515/geochr-2015-0063>
- Wright, E., Kruse, S., Forman, S.L., Harris, M.S., 2017. Millennial Scale Development of a Southeastern United States Spit. *Journal of Coastal Research* 34, 255-271, <http://doi.org/10.2112/JCOASTRES-D-16-00005.1>

- loess

- Bösken, J., Klasen, N., Zeeden, C., Obrecht, I., Marković, S.B., Hambach, U., Lehmkuhl, F., 2017. New luminescence-based geochronology framing the last two glacial cycles at the southern limit of european pleistocene loess in Stalać (Serbia). *Geochronometria* 44, 150-161, <http://doi.org/10.1515/geochr-2015-0062>
- Chen, J., Yang, T., Matishov, G.G., Velichko, A.A., Zeng, B., He, Y., Shi, P., Fan, Z., Titov, V.V., Borisova, O.K., Timireva, S.N., Konstantinov, E.A., Kononov, Y.M., Kurbanov, R.N., Panin, P.G., Chubarov, I.G., 2018. A luminescence dating study of loess deposits from the Beglitsa section in the Sea of Azov, Russia. *Quaternary International* 478, 27-37, <http://doi.org/10.1016/j.quaint.2017.11.017>
- Chen, J., Yang, T.-b., Matishov, G.G., Velichko, A.A., Zeng, B., He, Y., Shi, P.-h., 2018. Luminescence chronology and age model application for the upper part of the Chumbur-Kosa loess sequence in the Sea of Azov, Russia. *Journal of Mountain Science* 15, 504-518, <http://doi.org/10.1007/s11629-017-4689-0>

- Fitzsimmons, K.E., Sprafke, T., Zielhofer, C., Günter, C., Deom, J.-M., Sala, R., Iovita, R., 2018. Loess accumulation in the Tian Shan piedmont: Implications for palaeoenvironmental change in arid Central Asia. *Quaternary International* 469, 30-43, <http://doi.org/10.1016/j.quaint.2016.07.041>
- Kang, S., Wang, X., Roberts, H.M., Duller, G.A.T., Cheng, P., Lu, Y., An, Z., 2018. Late Holocene anti-phase change in the East Asian summer and winter monsoons. *Quaternary Science Reviews* 188, 28-36, <http://doi.org/10.1016/j.quascirev.2018.03.028>
- Li, G., Chen, F., Xia, D., Yang, H., Zhang, X., Madsen, D., Oldknow, C., Wei, H., Rao, Z., Qiang, M., 2018. A Tianshan Mountains loess-paleosol sequence indicates anti-phase climatic variations in arid central Asia and in East Asia. *Earth and Planetary Science Letters* 494, 153-163, <http://doi.org/10.1016/j.epsl.2018.04.052>
- Mayr, C., Matzke-Karasz, R., Stojakowits, P., Lowick, S.E., Zolitschka, B., Heigl, T., Mollath, R., Theuerkauf, M., Weckend, M.O., Bäumler, R., Gregor, H.J., 2017. Palaeoenvironments during MIS 3 and MIS 2 inferred from lacustrine intercalations in the loess-palaeosol sequence at Bobingen (southern Germany). *Quaternary Science Journal (Eiszeitalter & Gegenwart)* 66, 73-89, <http://doi.org/10.5194/egqsj-66-73-2017>
- Moska, P., Adamiec, G., Jary, Z., Bluszcz, A., 2017. OSL chronostratigraphy for loess deposits from Tysowce – Poland. *Geochronometria* 44, 307-318, <http://doi.org/10.1515/geochr-2015-0074>
- Reheis, M.C., Goldstein, H.L., Reynolds, R.L., Forman, S.L., Mahan, S.A., Carrara, P.E., 2017. Late Quaternary loess and soils on uplands in the Canyonlands and Mesa Verde areas, Utah and Colorado. *Quaternary Research* 89, 718-738, <http://doi.org/10.1017/qua.2017.63>
- Sprafke, T., Fitzsimmons, K.E., Grützner, C., Elliot, A., Marquer, L., Nigmatova, S., 2018. Reevaluation of Late Pleistocene loess profiles at Remizovka (Kazakhstan) indicates the significance of topography in evaluating terrestrial paleoclimate records. *Quaternary Research* 89, 674-690, <http://doi.org/10.1017/qua.2017.103>
- Stevens, T., Buylaert, J.P., Thiel, C., Újvári, G., Yi, S., Murray, A.S., Frechen, M., Lu, H., 2018. Ice-volume-forced erosion of the Chinese Loess Plateau global Quaternary stratotype site. *Nature Communications* 9, 983, <http://doi.org/10.1038/s41467-018-03329-2>
- Wang, Y., Chen, T., E, C., An, F., Lai, Z., Zhao, L., Liu, X.-J., 2018. Quartz OSL and K-feldspar post-IR IRSL dating of loess in the Huangshui river valley, northeastern Tibetan plateau. *Aeolian Research* 33, 23-32, <http://doi.org/10.1016/j.aeolia.2018.04.002>
- Yi, S., Li, X., Han, Z., Lu, H., Liu, J., Wu, J., 2018. High resolution luminescence chronology for Xiashu Loess deposits of Southeastern China. *Journal of Asian Earth Sciences* 155, 188-197, <http://doi.org/10.1016/j.jseaes.2017.11.027>

- periglacial

- Andrieux, E., Bateman, M.D., Bertran, P., 2018. The chronology of Late Pleistocene thermal contraction cracking derived from sand wedge OSL dating in central and southern France. *Global and Planetary Change* 162, 84-100, <http://doi.org/10.1016/j.gloplacha.2018.01.012>
- Döhler, S., Terhorst, B., Frechen, M., Zhang, J., Damm, B., 2018. Chronostratigraphic interpretation of intermediate layer formation cycles based on OSL-dates from intercalated slope wash sediments. *CATENA* 162, 278-290, <http://doi.org/10.1016/j.catena.2017.11.003>
- Wolfe, S.A., Morse, P.D., Neudorf, C.M., Kokelj, S.V., Lian, O.B., O'Neill, H.B., 2018. Contemporary sand wedge development in seasonally frozen ground and paleoenvironmental implications. *Geomorphology* 308, 215-229, <http://doi.org/10.1016/j.geomorph.2018.02.015>

- soil

Morris, P., Pillans, B., Williams, F., Spooner, N., Krapf, C., de Souza Kovacs, N., 2018. Combining geochemistry and geochronology of transported regolith to reveal bedrock-hosted mineralization in the arid east Wongatha area of south central Western Australia. *Geochemistry: Exploration, Environment, Analysis*, <http://doi.org/10.1144/geochem2017-056>

- surface exposure dating

Lehmann, B., Valla, P.G., King, G.E., Herman, F., 2018. Investigation of OSL surface exposure dating to reconstruct post-LIA glacier fluctuations in the French Alps (Mer de Glace, Mont Blanc massif). *Quaternary Geochronology* 44, 63-74, <http://doi.org/10.1016/j.quageo.2017.12.002>

Sohbati, R., Liu, J., Jain, M., Murray, A., Egholm, D., Paris, R., Guralnik, B., 2018. Centennial- to millennial-scale hard rock erosion rates deduced from luminescence-depth profiles. *Earth and Planetary Science Letters* 493, 218-230, <http://doi.org/10.1016/j.epsl.2018.04.017>

- thermochronology

Biswas, R.H., Herman, F., King, G.E., Braun, J., 2018. Thermoluminescence of feldspar as a multi-thermochronometer to constrain the temporal variation of rock exhumation in the recent past. *Earth and Planetary Science Letters* 495, 56-68, <http://doi.org/10.1016/j.epsl.2018.04.030>

- volcanic

Sears, D.W.G., Sears, H., Sehlke, A., Hughes, S.S., 2018. Induced thermoluminescence as a method for dating recent volcanism: Hawaii County, Hawaii, USA. *Journal of Volcanology and Geothermal Research* 349, 74-82, <http://doi.org/10.1016/j.jvolgeores.2017.09.022>

Archaeology applications

Akhilesh, K., Pappu, S., Rajapara, H.M., Gunnell, Y., Shukla, A.D., Singhvi, A.K., 2018. Early Middle Palaeolithic culture in India around 385–172 ka reframes Out of Africa models. *Nature* 554, 97, <http://doi.org/10.1038/nature25444>

Álvarez-Alonso, D., de Andrés-Herrero, M., Díez-Herrero, A., Medialdea, A., Rojo-Hernández, J., 2018. Neanderthal settlement in central Iberia: Geo-archaeological research in the Abrigo del Molino site, MIS 3 (Segovia, Iberian Peninsula). *Quaternary International* 474, 85-97, <http://doi.org/10.1016/j.quaint.2016.05.027>

Bacon, A.-M., Antoine, P.-O., Huong, N.T.M., Westaway, K., Tuan, N.A., Düringer, P., Zhao, J.-x., Ponche, J.-L., Dung, S.C., Nghia, T.H., Minh, T.T., Son, P.T., Boyon, M., Thuy, N.T.K., Blin, A., Demeter, F., 2018. A rhinocerotid-dominated megafauna at the MIS6-5 transition: The late Middle Pleistocene Coc Muoi assemblage, Lang Son province, Vietnam. *Quaternary Science Reviews* 186, 123-141, <http://doi.org/10.1016/j.quascirev.2018.02.017>

Bailiff, I.K., Jankowski, N., Snape, L.M., Gerrard, C.M., Gutiérrez, A., Wilkinson, K.N., 2018. Luminescence dating of qanat technology: prospects for further development. *Water History* 10, 73-84, <http://doi.org/10.1007/s12685-018-0213-x>

Finley, J.B., Ideker, C.J., Rittenour, T., 2017. Single-grain optically stimulated luminescence ages of brownware pottery in the Middle Rocky Mountains and the spread of numic ceramic technology. *American Antiquity* 82, 761-780, <http://doi.org/10.1017/aaq.2017.38>

- Groucutt, H.S., Grün, R., Zalmout, I.A.S., Drake, N.A., Armitage, S.J., Candy, I., Clark-Wilson, R., Louys, J., Breeze, P.S., Duval, M., Buck, L.T., Kivell, T.L., Pomeroy, E., Stephens, N.B., Stock, J.T., Stewart, M., Price, G.J., Kinsley, L., Sung, W.W., Alsharekh, A., Al-Omari, A., Zahir, M., Memesh, A.M., Abdulshakoor, A.J., Al-Masari, A.M., Bahameem, A.A., Al Murayyi, K.M.S., Zahrani, B., Scerri, E.L.M., Petraglia, M.D., 2018. Homo sapiens in Arabia by 85,000 years ago. *Nature Ecology & Evolution* 2, 800-809, <http://doi.org/10.1038/s41559-018-0518-2>
- Hershkovitz, I., Weber, G.W., Quam, R., Duval, M., Grün, R., Kinsley, L., Ayalon, A., Bar-Matthews, M., Valladas, H., Mercier, N., Arsuaga, J.L., Martínón-Torres, M., Bermúdez de Castro, J.M., Fornai, C., Martín-Francés, L., Sarig, R., May, H., Krenn, V.A., Slon, V., Rodríguez, L., García, R., Lorenzo, C., Carretero, J.M., Frumkin, A., Shahack-Gross, R., Bar-Yosef Mayer, D.E., Cui, Y., Wu, X., Peled, N., Groman-Yaroslavski, I., Weissbrod, L., Yeshurun, R., Tsatskin, A., Zaidner, Y., Weinstein-Evron, M., 2018. The earliest modern humans outside Africa. *Science* 359, 456-459, <http://doi.org/10.1126/science.aap8369>
- Ingicco, T., van den Bergh, G.D., Jago-on, C., Bahain, J.J., Chacón, M.G., Amano, N., Forestier, H., King, C., Manalo, K., Nomade, S., Pereira, A., Reyes, M.C., Sémah, A.M., Shao, Q., Voinchet, P., Falguères, C., Albers, P.C.H., Lising, M., Lyras, G., Yurnaldi, D., Rochette, P., Bautista, A., de Vos, J., 2018. Earliest known hominin activity in the Philippines by 709 thousand years ago. *Nature* 557, 233-237, <http://doi.org/10.1038/s41586-018-0072-8>
- Mammadov, S., Gasimov, R., Dadashov, Z., Ahadov, A., 2017. Electron Spin Resonance Dating of Tooth Enamel. *International Journal of Research Studies in Science, Engineering and Technology* 4, 32-34,
- Moropoulou, A., Zacharias, N., Delegou, E.T., Apostolopoulou, M., Palamara, E., Kolaiti, A., 2018. OSL mortar dating to elucidate the construction history of the Tomb Chamber of the Holy Aedicule of the Holy Sepulchre in Jerusalem. *Journal of Archaeological Science: Reports* 19, 80-91, <http://doi.org/10.1016/j.jasrep.2018.02.024>
- Nerantzis, N., Kazakis, N.A., Sfampa, I.K., Polymeris, G.S., Kitis, G., Tsirliganis, N.C., 2017. An integrated approach to the characterization and dating of furnaces in smelting sites in Macedonia, Greece. *Journal of Archaeological Science: Reports* 16, 65-72, <http://doi.org/10.1016/j.jasrep.2017.09.027>
- Niang, K., Blinkhorn, J., Ndiaye, M., 2018. The oldest Stone Age occupation of coastal West Africa and its implications for modern human dispersals: New insight from Tiémassas. *Quaternary Science Reviews* 188, 167-173, <http://doi.org/10.1016/j.quascirev.2018.03.022>
- Nicoll, K., 2018. A revised chronology for Pleistocene paleolakes and Middle Stone Age – Middle Paleolithic cultural activity at Bîr Tîrfawi – Bîr Sahara in the Egyptian Sahara. *Quaternary International* 463, 18-28, <http://doi.org/10.1016/j.quaint.2016.08.037>
- Panzeri, L., Cantù, M., Martini, M., Sibilia, E., 2017. Application of different protocols and age-models in OSL dating of earthen mortars. *Geochronometria* 44, 341-351, <http://doi.org/10.1515/geochr-2015-0072>
- Parés, J.M., Álvarez, C., Sier, M., Moreno, D., Duval, M., Woodhead, J.D., Ortega, A.I., Campaña, I., Rosell, J., Bermúdez de Castro, J.M., Carbonell, E., 2018. Chronology of the cave interior sediments at Gran Dolina archaeological site, Atapuerca (Spain). *Quaternary Science Reviews* 186, 1-16, <http://doi.org/10.1016/j.quascirev.2018.02.004>
- Shackelford, L., Demeter, F., Westaway, K., Düringer, P., Ponche, J.-L., Sayavongkhamdy, T., Zhao, J.-X., Barnes, L., Boyon, M., Sichanthongtip, P., Sénégas, F., Patole-Edoumba, E., Coppens, Y., Dumoncel, J., Bacon, A.-M., 2018. Additional evidence for early modern human morphological diversity in Southeast Asia at Tam Pa Ling, Laos. *Quaternary International* 466, 93-106, <http://doi.org/10.1016/j.quaint.2016.12.002>
- Shipton, C., Roberts, P., Archer, W., Armitage, S.J., Bitu, C., Blinkhorn, J., Courtney-Mustaphi, C., Crowther, A., Curtis, R., Errico, F.d., Douka, K., Faulkner, P., Groucutt, H.S., Helm, R., Herries, A.I.R., Jembe, S., Kourampas, N., Lee-Thorp, J., Marchant, R., Mercader, J., Marti, A.P., Prendergast, M.E., Rowson, B.,

- Tengeza, A., Tibesasa, R., White, T.S., Petraglia, M.D., Boivin, N., 2018. 78,000-year-old record of Middle and Later stone age innovation in an East African tropical forest. *Nature Communications* 9, 1832, <http://doi.org/10.1038/s41467-018-04057-3>
- Tengis, S., Saran, S., Munkhbayar, L., Bemann, J., 2017. Luminescence dating of an ancient walled settlement in Orkhon valley, Mongolia. *Proceedings of the Mongolian Academy of Sciences* 57, 4-14, <http://doi.org/10.5564/pmas.v57i4.918>
- Thompson, J., C., Mackay, A., Nightingale, S., Wright, D., Choi, J.H., Welling, M., Blackmore, H., Gomani-Chindebvu, E., 2017. Ecological risk, demography and technological complexity in the Late Pleistocene of northern Malawi: implications for geographical patterning in the Middle Stone Age. *Journal of Quaternary Science* 33, 261-284, <http://doi.org/10.1002/jqs.3002>
- Urbanová, P., Michel, A., Cantin, N., Guibert, P., Lanos, P., Dufresne, P., Garnier, L., 2018. A novel interdisciplinary approach for building archaeology: The integration of mortar “single grain” luminescence dating into archaeological research, the example of Saint Seurin Basilica, Bordeaux. *Journal of Archaeological Science: Reports* 20, 307-323, <http://doi.org/10.1016/j.jasrep.2018.04.009>
- Villa, P., Pollarolo, L., Conforti, J., Marra, F., Biagioni, C., Degano, I., Lucejko, J.J., Tozzi, C., Pennacchioni, M., Zanchetta, G., Nicosia, C., Martini, M., Sibilia, E., Panzeri, L., 2018. From Neandertals to modern humans: New data on the Uluzzian. *PLOS ONE* 13, e0196786, <http://doi.org/10.1371/journal.pone.0196786>
- Wang, Z., Ryves, D.B., Lei, S., Nian, X., Lv, Y., Tang, L., Wang, L., Wang, J., Chen, J., 2018. Middle Holocene marine flooding and human response in the south Yangtze coastal plain, East China. *Quaternary Science Reviews* 187, 80-93, <http://doi.org/10.1016/j.quascirev.2018.03.001>
- Wolf, D., Kolb, T., Alcaraz-Castaño, M., Heinrich, S., Baumgart, P., Calvo, R., Sánchez, J., Ryborz, K., Schäfer, I., Bliedtner, M., Zech, R., Zöller, L., Faust, D., 2018. Climate deteriorations and Neanderthal demise in interior Iberia. *Scientific Reports* 8, 7048, <http://doi.org/10.1038/s41598-018-25343-6>
- Zielhofer, C., Wellbrock, K., al-Souliman, A.S., von Grafenstein, M., Schneider, B., Fitzsimmons, K., Stele, A., Lauer, T., von Suchodoletz, H., Grottker, M., Gebel, H.G.K., 2018. Climate forcing and shifts in water management on the Northwest Arabian Peninsula (mid-Holocene Rasif wetlands, Saudi Arabia). *Quaternary International* 473, 120-140, <http://doi.org/10.1016/j.quaint.2018.03.001>
- Zou, G.-N., Shelach, G., Li, X.-Q., Zhao, C., Rui, X., Zhou, L.-P., Zhang, J.-F., 2018. Geochronology and paleoenvironment of the Taoshan site, northeastern China, and archaeological implications. *Quaternary International* 463, 6-17, <http://doi.org/10.1016/j.quaint.2017.06.073>

Various ESR applications

- Bartz, M., Rixhon, G., Duval, M., King, G.E., Álvarez Posada, C., Parés, J.M., Brückner, H., 2018. Successful combination of electron spin resonance, luminescence and palaeomagnetic dating methods allows reconstruction of the Pleistocene evolution of the lower Moulouya river (NE Morocco). *Quaternary Science Reviews* 185, 153-171, <http://doi.org/10.1016/j.quascirev.2017.11.008>
- Ekici, G., Sayin, U., Aydin, H., Isik, M., Kapan, S., Demir, A., Engin, B., Delikan, A., Orhan, H., Biyik, R., Ozmen, A., 2018. The importance of pre-annealing treatment for ESR dating of mollusc shells: A key study for İsmil in Konya closed Basin/Turkey. *AIP Conference Proceedings* 1935, 140002, <http://doi.org/10.1063/1.5026005>
- Groucutt, H.S., Grün, R., Zalmout, I.A.S., Drake, N.A., Armitage, S.J., Candy, I., Clark-Wilson, R., Louys, J., Breeze, P.S., Duval, M., Buck, L.T., Kivell, T.L., Pomeroy, E., Stephens, N.B., Stock, J.T., Stewart, M., Price, G.J., Kinsley, L., Sung, W.W., Alsharekh, A., Al-Omari, A., Zahir, M., Memesh, A.M., Abdulshakoor, A.J., Al-Masari, A.M., Bahameem, A.A., Al Murayyi, K.M.S., Zahrani, B., Scerri, E.L.M., Petraglia, M.D., 2018. Homo sapiens in Arabia by 85,000 years ago. *Nature Ecology & Evolution* 2, 800-809, <http://doi.org/10.1038/s41559-018-0518-2>

- Hershkovitz, I., Weber, G.W., Quam, R., Duval, M., Grün, R., Kinsley, L., Ayalon, A., Bar-Matthews, M., Valladas, H., Mercier, N., Arsuaga, J.L., Martínón-Torres, M., Bermúdez de Castro, J.M., Fornai, C., Martín-Francés, L., Sarig, R., May, H., Krenn, V.A., Slon, V., Rodríguez, L., García, R., Lorenzo, C., Carretero, J.M., Frumkin, A., Shahack-Gross, R., Bar-Yosef Mayer, D.E., Cui, Y., Wu, X., Peled, N., Groman-Yaroslavski, I., Weissbrod, L., Yeshurun, R., Tsatskin, A., Zaidner, Y., Weinstein-Evron, M., 2018. The earliest modern humans outside Africa. *Science* 359, 456-459, <http://doi.org/10.1126/science.aap8369>
- Ingicco, T., van den Bergh, G.D., Jago-on, C., Bahain, J.J., Chacón, M.G., Amano, N., Forestier, H., King, C., Manalo, K., Nomade, S., Pereira, A., Reyes, M.C., Sémah, A.M., Shao, Q., Voinchet, P., Falguères, C., Albers, P.C.H., Lising, M., Lyras, G., Yurnaldi, D., Rochette, P., Bautista, A., de Vos, J., 2018. Earliest known hominin activity in the Philippines by 709 thousand years ago. *Nature* 557, 233-237, <http://doi.org/10.1038/s41586-018-0072-8>
- Joannes-Boyau, R., Duval, M., Bodin, T., 2018. MCDoseE 2.0 A new Markov Chain Monte Carlo program for ESR dose response curve fitting and dose evaluation. *Quaternary Geochronology* 44, 13-22, <http://doi.org/10.1016/j.quageo.2017.11.003>
- Kinoshita, A., Baffa, O., Mascarenhas, S., 2018. Electron spin resonance (ESR) dose measurement in bone of Hiroshima A-bomb victim. *PLOS ONE* 13, e0192444, <http://doi.org/10.1371/journal.pone.0192444>
- Mammadov, S., Gasimov, R., Dadashov, Z., Ahadov, A., 2017. Electron Spin Resonance Dating of Tooth Enamel. *International Journal of Research Studies in Science, Engineering and Technology* 4, 32-34
- Parés, J.M., Álvarez, C., Sier, M., Moreno, D., Duval, M., Woodhead, J.D., Ortega, A.I., Campaña, I., Rosell, J., Bermúdez de Castro, J.M., Carbonell, E., 2018. Chronology of the cave interior sediments at Gran Dolina archaeological site, Atapuerca (Spain). *Quaternary Science Reviews* 186, 1-16, <http://doi.org/10.1016/j.quascirev.2018.02.004>
- Takada, N., Suzuki, A., Ishii, H., Hironaka, K., Hironiwa, T., 2017. Thermoluminescence of coral skeletons: a high-sensitivity proxy of diagenetic alteration of aragonite. *Scientific Reports* 7, 17969, <http://doi.org/10.1038/s41598-017-18269-y>

Basic research

- Bateman, M.D., Swift, D.A., Piotrowski, J.A., Rhodes, E.J., Damsgaard, A., 2018. Can glacial shearing of sediment reset the signal used for luminescence dating? *Geomorphology* 306, 90-101, <http://doi.org/10.1016/j.geomorph.2018.01.017>
- Biswas, R.H., Herman, F., King, G.E., Braun, J., 2018. Thermoluminescence of feldspar as a multi-thermochronometer to constrain the temporal variation of rock exhumation in the recent past. *Earth and Planetary Science Letters* 495, 56-68, <http://doi.org/10.1016/j.epsl.2018.04.030>
- Chithambo, M.L., Niyonzima, P., Kalita, J.M., 2018. Phototransferred thermoluminescence of synthetic quartz: Analysis of illumination-time response curves. *Journal of Luminescence* 198, 146-154, <http://doi.org/10.1016/j.jlumin.2018.02.029>
- Clark-Balzan, L., Parton, A., Breeze, P.S., Groucutt, H.S., Petraglia, M.D., 2018. Resolving problematic luminescence chronologies for carbonate- and evaporite-rich sediments spanning multiple humid periods in the Jubbah Basin, Saudi Arabia. *Quaternary Geochronology* 45, 50-73, <http://doi.org/10.1016/j.quageo.2017.06.002>
- Friedrich, J., Fasoli, M., Kreutzer, S., Schmidt, C., 2018. On the dose rate dependence of radiofluorescence signals of natural quartz. *Radiation Measurements* 111, 19-26, <http://doi.org/10.1016/j.radmeas.2018.02.006>

- Koul, D.K., Soni, A., Datta, D., 2017. Some novel features of post-500°C heating blue stimulated OSL emission of fired natural quartz. *Geochronometria* 44, 287-298, <http://doi.org/10.1515/geochr-2015-0078>
- Li, B., Jacobs, Z., Roberts, R.G., Li, S.-H., 2018. Single-grain dating of potassium-rich feldspar grains: Towards a global standardised growth curve for the post-IR IRSL signal. *Quaternary Geochronology* 45, 23-36, <http://doi.org/10.1016/j.quageo.2018.02.001>
- Maghrabi, M., 2018. Dependence of the peak shift, peak height and FWHM of thermoluminescence peaks on the heating rate and trap parameters. *Journal of Luminescence* 198, 54-58, <http://doi.org/10.1016/j.jlumin.2018.02.013>
- Pagonis, V., Bernier, S., Vieira, F.M.d.S., Steele, S., 2017. The effect of crystal size on tunneling phenomena in luminescent nanodosimetric materials. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 412, 198-206, <http://doi.org/10.1016/j.nimb.2017.09.016>
- Prasad, A.K., Poolton, N.R.J., Kook, M., Jain, M., 2017. Optical dating in a new light: A direct, non-destructive probe of trapped electrons. *Scientific Reports* 7, 12097, <http://doi.org/10.1038/s41598-017-10174-8>
- Riedesel, S., Brill, D., Roberts, H.M., Duller, G.A.T., Garrett, E., Zander, A.M., King, G.E., Tamura, T., Burow, C., Cunningham, A., Seeliger, M., De Batist, M., Heyvaert, V.M.A., Fujiwara, O., Brückner, H., 2018. Single-grain feldspar luminescence chronology of historical extreme wave event deposits recorded in a coastal lowland, Pacific coast of central Japan. *Quaternary Geochronology* 45, 37-49, <http://doi.org/10.1016/j.quageo.2018.01.006>
- Sawakuchi, A.O., Jain, M., Mineli, T.D., Nogueira, L., Bertassoli, D.J., Häggi, C., Sawakuchi, H.O., Pupim, F.N., Grohmann, C.H., Chiessi, C.M., Zabel, M., Mulitza, S., Mazoca, C.E.M., Cunha, D.F., 2018. Luminescence of quartz and feldspar fingerprints provenance and correlates with the source area denudation in the Amazon River basin. *Earth and Planetary Science Letters* 492, 152-162, <http://doi.org/10.1016/j.epsl.2018.04.006>
- Takada, N., Suzuki, A., Ishii, H., Hironaka, K., Hironiwa, T., 2017. Thermoluminescence of coral skeletons: a high-sensitivity proxy of diagenetic alteration of aragonite. *Scientific Reports* 7, 17969, <http://doi.org/10.1038/s41598-017-18269-y>
- Tóth, O., Sipos, G., Kiss, T., Bartyik, T., 2017. Variation of OSL residual doses in terms of coarse and fine grain modern sediments along the Hungarian section of the Danube. *Geochronometria* 44, 319-330, <http://doi.org/10.1515/geochr-2015-0079>
- Zhang, J., 2018. Behavior of the electron trapping probability change in IRSL dating of K-feldspar: A dose recovery study. *Quaternary Geochronology* 44, 38-46, <http://doi.org/10.1016/j.quageo.2017.12.001>

Dose rate issues

- Clark-Balzan, L., Parton, A., Breeze, P.S., Groucutt, H.S., Petraglia, M.D., 2018. Resolving problematic luminescence chronologies for carbonate- and evaporite-rich sediments spanning multiple humid periods in the Jubbah Basin, Saudi Arabia. *Quaternary Geochronology* 45, 50-73, <http://doi.org/10.1016/j.quageo.2017.06.002>
- Jankowski, N.R., Jacobs, Z., 2018. Beta dose variability and its spatial contextualisation in samples used for optical dating: An empirical approach to examining beta microdosimetry. *Quaternary Geochronology* 44, 23-37, <http://doi.org/10.1016/j.quageo.2017.08.005>
- Urbanová, P., Michel, A., Cantin, N., Guibert, P., Lanos, P., Dufresne, P., Garnier, L., 2018. A novel interdisciplinary approach for building archaeology: The integration of mortar “single grain” luminescence dating into archaeological research, the example of Saint Seurin Basilica, Bordeaux. *Journal of Archaeological Science: Reports* 20, 307-323, <http://doi.org/10.1016/j.jasrep.2018.04.009>

Dosimetry

- Elashmawy, M., 2018. Study of constraints in using household NaCl salt for retrospective dosimetry. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 423, 49-61, <http://doi.org/10.1016/j.nimb.2018.03.016>
- Kalita, J.M., Chithambo, M.L., 2017. A comparative study of the dosimetric features of α -Al₂O₃:C,Mg and α -Al₂O₃:C. *Radiation Protection Dosimetry* 177, 261-271, <http://doi.org/10.1093/rpd/ncx039>
- Kalita, J.M., Chithambo, M.L., 2018. Thermoluminescence of α -Al₂O₃:C,Mg annealed at 1200 °C. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 422, 78-84, <http://doi.org/10.1016/j.nimb.2018.03.003>
- Kinoshita, A., Baffa, O., Mascarenhas, S., 2018. Electron spin resonance (ESR) dose measurement in bone of Hiroshima A-bomb victim. *PLOS ONE* 13, e0192444, <http://doi.org/10.1371/journal.pone.0192444>
- Musa, Y., Hashim, S., Ghoshal, S.K., Bradley, D.A., Ahmad, N.E., Karim, M.K.A., Hashim, A., Kadir, A.B.A., 2018. General radiographic attributes of optically stimulated luminescence dosimeters: A basic insight. *Radiation Physics and Chemistry* 147, 1-6, <http://doi.org/10.1016/j.radphyschem.2018.01.022>

Instruments

- Pokorný, P., Novotný, M., Fitl, P., Zuklín, J., Vlček, J., Nikl, J., Marešová, E., Hruška, P., Bulíř, J., Drahoukoupil, J., Čerňanský, M., Lančok, J., 2018. Apparatus for measurements of thermal and optical stimulated exo-electron emission and luminescence. *Measurement Science and Technology* 29, 065902, <http://doi.org/10.1088/1361-6501/aabc80>

Portable system

- Bateman, M.D., Rushby, G., Stein, S., Ashurst, R.A., Stevenson, D., Jones, J.M., Gehrels, W.R., 2018. Can sand dunes be used to study historic storm events? *Earth Surface Processes and Landforms* 43, 779-790, <http://doi.org/10.1002/esp.4255>
- Castillo, M., Muñoz-Salinas, E., Arce, J.L., Roy, P., 2017. Early Holocene to present landscape dynamics of the tectonic lakes of west-central Mexico. *Journal of South American Earth Sciences* 80, 120-130, <http://doi.org/10.1016/j.jsames.2017.09.024>
- Muñoz-Salinas, E., Castillo, M., 2018. Assessing conservation practices in Amalacaxco Gorge (Izta-Popo National Park, Central Mexico) using fallout ¹³⁷CS and Optically Stimulated Luminescence (OSL). *Journal of Mountain Science* 15, 447-460, <http://doi.org/10.1007/s11629-017-4635-1>

computer coding

- Joannes-Boyau, R., Duval, M., Bodin, T., 2018. MCDoseE 2.0 A new Markov Chain Monte Carlo program for ESR dose response curve fitting and dose evaluation. *Quaternary Geochronology* 44, 13-22, <http://doi.org/10.1016/j.quageo.2017.11.003>

Review

- Musa, Y., Hashim, S., Ghoshal, S.K., Bradley, D.A., Ahmad, N.E., Karim, M.K.A., Hashim, A., Kadir, A.B.A., 2018. General radiographic attributes of optically stimulated luminescence dosimeters: A basic insight. *Radiation Physics and Chemistry* 147, 1-6, <http://doi.org/10.1016/j.radphyschem.2018.01.022>

Thomas, D.S.G., Bailey, R.M., 2017. Is there evidence for global-scale forcing of Southern Hemisphere Quaternary desert dune accumulation? A quantitative method for testing hypotheses of dune system development. *Earth Surface Processes and Landforms* 42, 2280-2294, <http://doi.org/10.1002/esp.4183>