

Bibliography

Compiled by Jingran Zhang

From 01 June 2025 to 30 November 2025

Various geological applications

- aeolian

- Bai, Y., Li, B., Rong, J., Chen, H., Zheng, J., Liu, J., Bao, T., Jin, J., Wang, C., 2025. Erosion rates of yardang landforms downstream of the Peacock River, NW China. *Journal of Sedimentary Environments* 10, 1065-1077, <http://doi.org/10.1007/s43217-025-00253-6>
- Dirnerová, D., Farkašovský, R., Hincá, R., 2025. Age of Blown Sand in the East Slovak Lowland—Case Study from Svätušie Sand Pit, Slovakia. *Geosciences* 15, 429, <https://doi.org/10.3390/geosciences15110429>
- Hu, J., Hu, G., Yang, L., Guo, X., Zhang, J., Dong, Z., 2025. Periglacial aeolian activities in the Headwater Region of the Yellow River, northeastern Tibetan Plateau. *Palaeogeography, Palaeoclimatology, Palaeoecology* 671, 112984, <http://doi.org/10.1016/j.palaeo.2025.112984>
- Kang, J., Zan, J., Yang, S., Li, P., Liu, L., Fang, X., Zhang, W., Azamdzon, M., 2025. Luminescence dating of three loess-paleosol sequences in the western Pamir Plateau and their paleoclimatic implications during the Late Pleistocene. *Palaeogeography, Palaeoclimatology, Palaeoecology* 680, 113317, <http://doi.org/10.1016/j.palaeo.2025.113317>
- Larsen, N.K., Siggaard-Andersen, M.L., Buylaert, J.P., Murray, A.S., Olsen, J., Ruter, A., Kjeldsen, K.K., Björk, A.A., Mikkelsen, N., Kjær, K.H., 2025. Increased aeolian activity linked to Neoglacial cooling and glacier advance in southern Greenland. *Boreas* 54, 382-394, <http://doi.org/10.1111/bor.12688>
- Shi, Y., E, C., Xu, C., Yan, W., Sun, Y., Zhang, Z., Zhang, J., Peng, Q., 2025. Reconstructing aeolian activities and borders shifts of the Gonghe Sandy Lands since the last Glacial Maximum. *Geomorphology* 478, 109706, <http://doi.org/10.1016/j.geomorph.2025.109706>
- Song, H., Liang, Z., Duan, M., Liu, M., Liu, L., Chen, Z., Han, S., Zhang, H., Zhou, C., 2025. Quaternary stratigraphy of Bayan borehole in eastern Songnen Plain and its paleoclimate significance. *Scientific Reports* 15, 32027, <http://doi.org/10.1038/s41598-025-15418-6>
- Zhang, Z., E, C., Sun, Y., Zhang, J., Shi, Y., Peng, Q., Xianba, J., 2025. Holocene paleoclimate variations and East Asian monsoonal dynamics revealed by high-resolution OSL dating of aeolian sediments in the Qinghai Lake Basin. *Earth Surface Processes and Landforms* 50, e70112, <http://doi.org/10.1002/esp.70112>
- Zhong, J., Lai, P., Liao, W., Lai, Z., Bae, C.J., Wang, W., Vandenberghe, J., 2025. The Late Quaternary Aeolian Deposits in the Subtropical Bose–Bubing Basins, Southern China. *Quaternary* 8, 70, <http://doi.org/10.3390/quat8040070>

- coastal

- Gernant, C., Simms, A.R., DeWitt, R., Theilen, B., Garcia, C.N., Goebel, M., 2025. Insights into the sea-level history of the South Shetland Islands from ground penetrating radar on Livingston Island, Antarctica. *Quaternary Science Reviews* 359, 109363, <http://doi.org/10.1016/j.quascirev.2025.109363>
- Gkouma, M., Karkanis, P., Koukousioura, O., Syrides, G., Chalkioti, A., Tsakalos, E., Ntinou, M., Efstratiou, N., 2025. Exploring Continental and Submerged Paleolandscapes at the Pre-Neolithic Site of Ouriakos, Lemnos Island, Northeastern Aegean, Greece. *Quaternary* 8, 42, <http://doi.org/10.3390/quat8030042>
- Gouveia, M.P., Cunha, P.P., Martins, A.A., Stokes, M., Gomes, A., Falguères, C., Voinchet, P., Bahain, J.-J., Pereira, T., Figueiredo, S., Shao, Q., Tombret, O., 2025. Plio-Quaternary coastal uplift along the western Iberian Margin: insights from dated marine terraces (Peniche, Portugal). *Quaternary International* 747, 109954, <http://doi.org/10.1016/j.quaint.2025.109954>
- Hou, C., Jin, J., Ma, M., Liu, G., Ling, Z., Wei, J., Xu, D., 2025. Temporal variation of luminescence sensitivity and environmental changes during the mid-late Holocene recorded in estuarine coastal deposits from South China. *Catena* 255, 109022, <http://doi.org/10.1016/j.catena.2025.109022>
- Kim, D.-E., Kwon, C.W., Lee, T.-H., Lee, H.J., Lee, H., 2025. Timing of Late Pleistocene marine terrace exposure using OSL and ¹⁰Be dating: Constraints on the tectonic uplift of the southeastern Korean Peninsula. *Progress in Physical Geography: Earth and Environment* 49, 377-399, <http://doi.org/10.1177/03091333251344158>

- Leknettip, S., Chawchai, S., Bissen, R., Dubois, N., Fülling, A., Preusser, F., 2025. Holocene sea-level changes and the influence of storms on beach ridge formation in the Lower Gulf of Thailand. *Sedimentology* 72, 1402-1429, <http://doi.org/10.1111/sed.70007>
- Leknettip, S., Chawchai, S., Fülling, A., Preusser, F., 2025. Pleistocene sea-level and environmental changes during glacial-interglacial cycles recorded in beach ridges of the Thai-Malay Peninsula. *Quaternary Science Reviews* 364, 109464, <http://doi.org/10.1016/j.quascirev.2025.109464>
- Maruyama, M., Hori, K., Tamura, T., Ishii, Y., Seike, K., Nakanishi, T., Hong, W., 2025. Beach ridge formation and Holocene relative sea-level changes in the southern Sendai coastal plain, northern Japan. *Geomorphology* 488, 109957, <http://doi.org/10.1016/j.geomorph.2025.109957>
- Moreira, V.B., Lämmle, L., D'Aniello, M., Da Conceição, F.T., Donadio, C., Perez Filho, A., 2025. The role of Holocene climate dynamics in the modeling of fluvio-marine terraces in the northeastern Brazilian coast. *Quaternary International* 747, 109965, <http://doi.org/10.1016/j.quaint.2025.109965>
- Perazzotti, F., Valle, L.d., Cossu, G., Pascucci, V., Fornós, J.J., 2025. Paleoenvironmental changes and sea-level fluctuations record at Punta de s'Avançada, Mallorca Island. *Quaternary International* 735, 109839, <http://doi.org/10.1016/j.quaint.2025.109839>
- Schomacker, A., Alexanderson, H., Farnsworth, W.R., Furze, M.F.A., Kjellman, S.E., Kirchner, N., Erstorp, E.S., Noormets, R., Jomelli, V., Ingólfsson, Ó., 2025. Weichselian–Holocene glacial history of the Sjuøyane archipelago, northern Svalbard. *Boreas* 54, 288-304, <http://doi.org/10.1111/bor.12673>
- Simms, A.R., DeWitt, R., Bradley, S.L., Huffman, E., Best, L., Bradwell, T., Lloyd, J.M., Kachuck, S.B., 2025. Was Scotland covered by an ice sheet during Marine Isotope Stage 4? Insights from the pre-Last Glacial Maximum marine terraces of northwest Scotland. *Journal of Quaternary Science* 40, 1097-1105, <http://doi.org/10.1002/jqs.70000>
- Tanigawa, K., Tamura, T., Komori, K., Negoro, Y., 2025. Holocene coastal barrier dune development and its influence on marine inundations: An example from the Kochi coast facing the Nankai Trough, southern Japan. *Geomorphology* 486, 109887, <http://doi.org/10.1016/j.geomorph.2025.109887>
- Wang, Y., Meltzner, A.J., Quye-Sawyer, J., Yang, H., Pu, Y., Qin, J., Aung, L.T., Aw, Z., Pamintuan, A.D.A., Ramos, N.T., 2025. Uplift, tilting, and underlying structures of coastal northwestern Luzon, Philippines, deduced from marine terraces. *Quaternary Science Reviews* 358, 109347, <http://doi.org/10.1016/j.quascirev.2025.109347>
- Xu, Z., Han, Y., Yan, B., Li, M., Jiang, R., Tian, R., Liu, B., Zhu, Z., Yuan, W., Lai, Z., 2025. Luminescence dating of core sediments from the southern coastal Bohai Sea, China, and its implications for transgression history during the Late Quaternary. *Frontiers in Marine Science* 12, 1606184, <http://doi.org/10.3389/fmars.2025.1606184>
- Yüksel, M., Deniz, F., Ünsal, E., 2025. ANN-Based Prediction of OSL Decay Curves in Quartz from Turkish Mediterranean Beach Sand. *Crystals* 15, 733, <http://doi.org/10.3390/cryst15080733>

- earthquakes and tectonic activity

- Gaidzik, K., Ramírez-Herrera, M.-T., Dominguez, L.A., Coca, O., Forman, S.L., Vargas-Espinosa, V., Arenas, L.F., 2025. Geomorphic and paleoseismic evidence for active faulting along La Venta Fault, Guerrero, Mexican subduction Forearc. *Geomorphology* 485, <http://doi.org/10.1016/j.geomorph.2025.109869>
- Goswami, C.C., Štěpančíková, P., Singh, A., Jaiswal, M.K., Jana, P., 2025. "Fault dynamics and paleoseismic evidence in the Darjeeling-Sikkim Himalayan foothills: A study of fault-controlled landscapes". *Geomorphology* 482, 109869, <http://doi.org/10.1016/j.geomorph.2025.109802>
- Gutiérrez, F., Haghighi, M.H., Ilyati, I., Motagh, M., del Val, M., 2025. Diapiric and tectonic geomorphology of the river-damming Jahani salt extrusion associated with the strike-slip Karez Bas Fault, including DInSAR displacement data (Zagros Mountains, Iran). *Geomorphology* 488, 109955, <http://doi.org/10.1016/j.geomorph.2025.109955>
- Hu, X., Ju, N., Zhao, J., Feng, Q., Zhao, W., Huang, J., Xie, M., 2025. Reservoir impoundment induced the revival of toppling paleo-landslide in the upper reaches of the Yellow River: a case of Darou landslide. *Landslides* 22, 3743-3757, <http://doi.org/10.1007/s10346-025-02570-3>
- Karlstrom, K.E., Baisan, C.H., Kring, D.A., Hereford, R., Turney, C., Hogg, A., Norman, L.M., O'Brien, P., Palmer, J.G., Rittenour, T.M., Ballensky, J., Crossey, L.J., 2025. Grand Canyon landslide-dam and paleolake triggered by the Meteor Crater impact at 56 ka. *Geology* 53, 821-826, <http://doi.org/10.1130/g53571.1>
- Langridge, R.M., Howarth, J.D., Coffey, G.L., Villamor, P., Ries, W.F., Cochran, U.A., Sagar, M., La Greca, J., Rhodes, E.J., Saha, S., Dahl, J., 2025. A multi-event paleoseismic record from the northern Alpine Fault at Marble Hill, Aotearoa New Zealand. *Geomorphology* 489, 109945, <http://doi.org/10.1016/j.geomorph.2025.109945>

- LaPlante, A.A., Regalla, C.A., Sethanant, I., Mahan, S.A., Gray, H.J., 2025. Spatiotemporal Variations in Strain Release and Seismic Rupture in Multifault Systems: An Example from Panamint Valley, Southeastern California. *Lithosphere* 2024, http://doi.org/10.2113/2024/lithosphere_2024_187
- Mondal, S., Das, S., Chauhan, N., Dey, S., 2025. Millennial-Scale Slip Rates Along Blind Himalayan Frontal Thrust: Findings From Chalsa-Gorubathan Recess in East-Central Himalaya. *Terra Nova* 37, 395-402, <http://doi.org/10.1111/ter.70000>
- Prince, E., Tsukamoto, S., Grützner, C., Bühlhoff, M., Ustaszewski, K., 2025. Deciphering Pleistocene Fault Activity in the Eastern Alps: Dating Fault Gouges With Electron Spin Resonance and Optically Stimulated Luminescence. *Tectonics* 44, e2024TC008662, <http://doi.org/10.1029/2024tc008662>
- Srivastava, E., Gadhavi, M., Sharma, N., Kumar, P., Malik, J.N., Sulli, A., 2025. Geomorphic imprints of long- and short-term deformation in the Kachchh Intraplate Region (Western India). *Geomorphology* 486, 109890, <http://doi.org/10.1016/j.geomorph.2025.109890>
- Tyagi, A.K., Kumar, D., Murari, M.K., Singh, R.N., Singhvi, A.K., 2025. Viscous heating in sediments as a 'Zeroing' mechanism in luminescence dating of sand dikes for paleoseismological investigations. *Earth and Planetary Science Letters* 670, 119578, <http://doi.org/10.1016/j.epsl.2025.119578>
- Wang, K., Li, X., Shi, W., Feng, X., Yang, Q., Li, J., Xu, Z., Peng, Z., Xu, S., Xiong, Y., Lin, M., 2025. A Typical Riedel Shear Pattern of Active Faults in the Laolongwan Basin, Northeastern Tibetan Plateau. *Journal of Earth Science* 36, 1906-1922, <http://doi.org/10.1007/s12583-023-1831-5>
- Xin, C., Yan, S., Li, H., Dai, X., Liu, T., Wang, J., 2025. Cenozoic Multiphase Activity and Mesozoic Basin-Control Role of the Dingri-Gangba Fault, Southern Tibet: An Integrated Study of Structural Analysis, Stratigraphic Correlation, and ESR Geochronology. *Geosciences* 15, 440, <http://doi.org/10.3390/geosciences15110440>
- Yao, Y., Shao, Y., Zhang, B., 2025. Preliminary Study on the Activity of the Rupture Zone in the Eastern Segment of the Ba Co Fault in Ngari Prefecture, Tibet. *Geosciences* 15, 377, <http://doi.org/10.3390/geosciences15100377>
- Zhang, X., Zhong, N., Yu, H., Yu, X., Li, H., 2025. Geometric Structural Characteristics and Tectonic Significance of the Litang Fault Zone, Southeastern Margin of the Tibetan Plateau. *Acta Geologica Sinica - English Edition* 99, 942-960, <http://doi.org/10.1111/1755-6724.15330>

- fluvial

- Arzhannikova, A.V., Arzhannikov, S.G., Tetenkin, A.V., Chebotarev, A.A., Timofeeva, I.V., Efremova, U.S., Gladkochub, E.A., Bryanskiy, N.V., 2025. Chronology of glacial megafloods in the Baikal-Patom Upland (South Siberia): New geochronological constraints. *Quaternary International* 749, 110004, <http://doi.org/10.1016/j.quaint.2025.110004>
- Cao, P., Zhang, Y., Zhu, Y., Wang, N., Huang, C.C., Shi, X., Pang, J., Li, Y., Zhou, J., Wang, S., Jin, Y., Li, M., Huang, X., Shen, M., Dong, J., 2025. Evolutionary history of a paleo-oxbow lake in the Yellow River within the Zoige Basin, NE Tibetan Plateau. *Quaternary International* 745, 109938, <http://doi.org/10.1016/j.quaint.2025.109938>
- Carling, P.A., Meshkova, L., Srivastava, A., Kinnaird, T., Ding, Z., Robinson, R., Darby, S.E., Fan, X., 2025. Fluvial terraces of the lower Mekong River reflect quaternary global sea level fluctuations as a likely response to Himalayan glacial/deglacial runoff. *Geomorphology* 480, 109756, <http://doi.org/10.1016/j.geomorph.2025.109756>
- Collins, B.D., Schmidt, A.H., Harrell, S., Aalto, R., Feathers, J., Tang, Y., 2025. Holocene and recent valley-bottom sediment storage decouples natural and anthropogenic hillslope erosion from sediment delivery to streams at time scales of 101–104 yr in a third-order Yangtze River basin, Sichuan, China. *Quaternary Research* 128, 9-31, <http://doi.org/10.1017/qua.2025.22>
- Dixon, T., Rudd, R., Kemp, J., Marx, S., Moss, P., Callow, J.N., Hall, P.A., Hua, Q., McGowan, H., 2025. Hydroclimate variability in the eastern Kimberley, Australia, since the last deglaciation. *Journal of Quaternary Science* 40, 893-912, <http://doi.org/10.1002/jqs.3710>
- Duan, M., Neubauer, F., Robl, J., Zhou, X., Argentin, A.-L., Liebl, M., Dong, Y., Shi, X., Zhang, S., Peng, H., 2025. The northward expansion of the Tibetan Plateau: Topographic evidence from the Bogda Mts. – southern Junggar Basin coupling system, northwest China. *Quaternary Science Reviews* 362, 109402, <http://doi.org/10.1016/j.quascirev.2025.109402>
- Feng, S., Tan, C., Plink-Björklund, P., Shan, X., Li, S., Li, S., Yu, X., Chen, L., Ji, H., 2025. Sedimentary response to glacial-interglacial cycles in an alluvial fan at the marginal East Asian monsoon zone, northern China. *Sedimentology* 72, 1375-1401, <http://doi.org/10.1111/sed.70006>
- Geis, A.-L., Sontag-González, M., Kolb, T., Jain, M., Fuchs, M., 2025. Multi-method luminescence dating of late Cenozoic northern Upper Rhine Graben fluvial sediments. *Quaternary Geochronology* 90, 101689, <http://doi.org/10.1016/j.quageo.2025.101689>

- Hou, C., Jin, J., Ma, M., Liu, G., Ling, Z., Wei, J., Xu, D., 2025. Temporal variation of luminescence sensitivity and environmental changes during the mid-late Holocene recorded in estuarine coastal deposits from South China. *Catena* 255, 109022, <http://doi.org/10.1016/j.catena.2025.109022>
- Huang, X., Wang, P., Fang, Y., Ye, H., Liu, F., 2025. Hydrodynamics of late Quaternary outburst floods along the Yigong River, Eastern Himalayan Syntaxis. *Palaeogeography, Palaeoclimatology, Palaeoecology* 676, 113168, <http://doi.org/10.1016/j.palaeo.2025.113168>
- Ishii, Y., 2025. Alluvial fan aggradation during the MIS 6 sea-level lowstand in the lower reach of the Tenryu River, Japan. *Earth Surface Processes and Landforms* 50, e70146, <http://doi.org/10.1002/esp.70146>
- Lai, Z., Liu, Y., Wu, Z., Xu, Y., Fang, Z., Montgomery, D.R., 2025. Headward incision of large rivers in response to glacial sea level fall. *Science Advances* 11, eadr5446, <http://doi.org/10.1126/sciadv.adr5446>
- Langridge, R.M., Howarth, J.D., Coffey, G.L., Villamor, P., Ries, W.F., Cochran, U.A., Sagar, M., La Greca, J., Rhodes, E.J., Saha, S., Dahl, J., 2025. A multi-event paleoseismic record from the northern Alpine Fault at Marble Hill, Aotearoa New Zealand. *Geomorphology* 489, 109945, <http://doi.org/10.1016/j.geomorph.2025.109945>
- Li, X., Chen, D., Pan, B., Garzanti, E., Huang, D., Wang, K., Chen, D., Hu, D., Liu, W., Fu, X., 2025. Drainage evolution in response to the growing northeastern Tibetan Plateau: Provenance analysis from drill core of the Jinta Basin (NW China). *Geomorphology* 486, 109892, <http://doi.org/10.1016/j.geomorph.2025.109892>
- Li, Y., Lu, P., Chen, P., Wang, H., Yang, S., Zhao, X., Liao, Y., Tian, Y., Wang, Z., Mo, D., 2025. Landform basis for the rise of early cities in the upper Jialu river basin, central China. *Quaternary International* 735, 109842, <http://doi.org/10.1016/j.quaint.2025.109842>
- Liu, X., Quan, C., Liu, Z., Li, R., 2025. Late Pleistocene megalake system in the Yinchuan-Hetao rift basins, upper reaches of the Yellow River. *Quaternary Science Reviews* 365, 109473, <http://doi.org/10.1016/j.quascirev.2025.109473>
- Liu, Z., Yang, J., Zhao, H., Song, L., Wang, C., 2025. Luminescence Dating of Holocene Fluvial Sediments from the Daluze Area in the North China Plain. *Water* 17, 1942, <http://doi.org/10.3390/w17131942>
- Mahadev, Behera, D., Kumar, P., Jaiswal, M.K., Singh, A.K., 2025. A Terrestrial record of ~3000 years of extreme floods from the Kaveri and adjacent river basins, Tamil Nadu, India. *Quaternary International* 738, 109856, <http://doi.org/10.1016/j.quaint.2025.109856>
- Marik, M., Serra, E., Rixhon, G., Preusser, F., 2025. Luminescence dating of alluvial sediments from the Quaternary fan-terrace sequence of the lower Bruche valley, Upper Rhine Graben, France. *E&G Quaternary Science Journal* 74, 169-192, <http://doi.org/10.5194/egqsj-74-169-2025>
- Martín-Perea, D.M., Medialdea, A., Marín, J., Abellán, N., Solano-Megías, I., Arteaga, C., Rodríguez-Hidalgo, A., Uribe-larrea, D., Arroyo, X., Gidna, A., Mabulla, A., Maíllo-Fernández, J.M., 2025. Geology and chronology of the Ndutu and Naisiusiu type sites: implications for Middle and Later Stone Age occupations at Olduvai Gorge (Tanzania). *Quaternary Science Reviews* 368, 109578, <http://doi.org/10.1016/j.quascirev.2025.109578>
- Moreira, V.B., Lämmle, L., D'Aniello, M., Da Conceição, F.T., Donadio, C., Perez Filho, A., 2025. The role of Holocene climate dynamics in the modeling of fluvio-marine terraces in the northeastern Brazilian coast. *Quaternary International* 747, 109965, <http://doi.org/10.1016/j.quaint.2025.109965>
- Panin, A., Zaretskaya, N., Baranov, D., Utkina, A., Kurbanov, R., 2025. Late Quaternary architecture of the lower Vychegda valley, northern European Russia: Insights into landscape dynamics at the eastern margin of the last Scandinavian ice sheet. *Earth Surface Processes and Landforms* 50, e70202, <http://doi.org/10.1002/esp.70202>
- Seidel, P., Rolf, M., Holzinger, A., Gröbner, M., Riedesel, S., Laermanns, H., Feldhaar, H., Laforsch, C., Loeder, M.G.J., Bogner, C., 2025. Vertical distribution and post-depositional translocation of microplastics in a Rhine floodplain soil. *Microplastics and Nanoplastics* 5, 34, <http://doi.org/10.1186/s43591-025-00142-9>
- Shang, L., Zha, X., Huang, C., Zhou, Y., Pang, J., Li, Y., Wang, Z., 2025. Reconstructing the magnitudes of Holocene extraordinary floods in the upper Huai River, China. *Quaternary Science Reviews* 359, 109371, <http://doi.org/10.1016/j.quascirev.2025.109371>
- Shi, T., Miao, X., Shen, H., Zhai, Q., Wang, S., 2025. Extreme flood events in the Yi and Shu river basins of the Haidai region (Shandong Province, China) during the late Holocene: Implications for future risk prediction. *Palaeogeography, Palaeoclimatology, Palaeoecology* 674, 113011, <http://doi.org/10.1016/j.palaeo.2025.113011>
- Stanistreet, I.G., Stollhofen, H., Smedley, R.K., Fenn, K., Ambrose, S.H., Njau, J.K., Schick, K., Toth, N., 2025. Luminescence and radiocarbon dating the Naisiusiu Beds type section and timing of the Middle Stone Age/Later Stone Age transition at Olduvai Gorge, Tanzania. *Journal of Human Evolution* 207, 103675, <http://doi.org/10.1016/j.jhevol.2025.103675>

- Su, Q., Wang, X., Yuan, D., Jiang, J., Lai, Z., Zhang, L., Sun, H., Li, H., Huang, X., Zhou, K., Li, H., 2025. Temporally staggered formation of the Middle Pleistocene terrace in the Gonghe Basin (northeastern Tibetan Plateau) and the evolution of the Upper Yellow River. *Geological Society of America Bulletin* 138, 744-756, <http://doi.org/10.1130/b38225.1>
- Tian, R., Yan, B., He, C., Yuan, W., Lin, P., Song, Y., Liu, B., Liu, Y., Miao, X., Lai, Z., 2025. Paleolakes in the lower Yellow River plain since the last deglaciation: age, distribution, and mechanism. *Catena* 259, 109315, <http://doi.org/10.1016/j.catena.2025.109315>
- Westell, C., Roberts, A., Morley, M.W., Moffat, I., Hernandez, V.C., Spooner, N.A., McDonnell, K., Rudd, R., Petchey, F., 2025. Life beyond the lakes: An analysis and implications of a Pleistocene combustion feature on the Pike River in South Australia. *Journal of Archaeological Science* 180, 106264, <http://doi.org/10.1016/j.jas.2025.106264>
- Yang, A., Hu, K., Wang, H., Liu, W., Zhang, Q., Liu, S., Li, H., 2025. Evolution of a landslide-dammed lake during the Holocene: Records from lacustrine and fan-delta successions in southeastern Tibet. *Earth Surface Processes and Landforms* 50, e70104, <http://doi.org/10.1002/esp.70104>
- Yuan, W., Liu, B., Wu, Z., Wang, Y., Sun, Z., Zhou, X., Tian, R., Yan, B., Lai, Z., 2025. Luminescence dating of core sediments from Jining of Shandong Province in the lower Yellow River Plain and its geomorphological implications. *Palaeogeography, Palaeoclimatology, Palaeoecology* 675, 113042, <http://doi.org/10.1016/j.palaeo.2025.113042>
- Yuan, W., Pan, B., Yi, C., Wei, M., Yan, P., Zhao, J., Liu, X., Xu, X., Dong, G., Li, X., 2025. Holocene geomorphic process recorded by OSL dating of Linggo Co delta and outwash terraces from the Puruogangri area in the central Tibetan Plateau. *Earth Surface Processes and Landforms* 50, e70169, <http://doi.org/10.1002/esp.70169>
- Yuskar, Y., Kranz-Bartz, M., Schmidt, C., Choanji, T., Lane, S., King, G., 2025. A first chronological framework for fluvial terrace deposits of the Kampar Kanan River, Indonesia. *Geochronometria* 52, 205688, <http://doi.org/10.20858/geochr/205688>
- Zhao, Y., Fan, N., An, Y., Nie, J., Abell, J.T., Jin, Z., Wang, C., Nie, R., Liu, X., 2025. Co-evolution of palaeolakes in the Hetao Basin and the Yellow River over the last 500 ka. *Palaeogeography, Palaeoclimatology, Palaeoecology* 674, 113038, <http://doi.org/10.1016/j.palaeo.2025.113038>

- cave sediments

- Padoan, L., Karmann, I., Granger, D., Laureano, F.V., Paes de Almeida, R., Cruz, F.W., Sawakuchi, A.O., Fonseca, E.S., Meza, A.B., Gallas, J.D.F., 2025. Cave sediment chronology and erosion rates in the São Desidério karst reveal a million-year-scale landscape evolution of the Central Brazilian Plateau. *Geomorphology* 483, 109820, <http://doi.org/10.1016/j.geomorph.2025.109820>
- Hudson, M., Paces, J., Darryl, G., Rodrigues, K., Keen-Zebert, A., Bitting, C., Turner, K., Sapkota, K., 2025. Two million years of climate-driven cave-sediment aggradation and valley incision in the southern Ozark Plateau from Fitton Cave, northern Arkansas, USA. *Quaternary Research* 128, 102-125, <http://doi.org/10.1017/qua.2025.14>

- glacial and periglacial

- Arzhannikova, A.V., Arzhannikov, S.G., Tetenkin, A.V., Chebotarev, A.A., Timofeeva, I.V., Efremova, U.S., Gladkochub, E.A., Bryanskiy, N.V., 2025. Chronology of glacial megafloods in the Baikal-Patom Upland (South Siberia): New geochronological constraints. *Quaternary International* 749, 110004, <http://doi.org/10.1016/j.quaint.2025.110004>
- Gernant, C., Simms, A.R., DeWitt, R., Theilen, B., Garcia, C.N., Goebel, M., 2025. Insights into the sea-level history of the South Shetland Islands from ground penetrating radar on Livingston Island, Antarctica. *Quaternary Science Reviews* 359, 109363, <http://doi.org/10.1016/j.quascirev.2025.109363>
- Li, H., Yao, P., Ou, X., Xu, Y., Yang, K., Liu, J., 2025. Luminescence dating of glaciofluvial deposits using single-grain K-feldspar in the Urumqi River headwaters of the Tianshan Mountains. *Progress in Geography* 44, 2203-2214, <http://doi.org/10.18306/dlkxjz.2025.10.015>
- Schomacker, A., Alexanderson, H., Farnsworth, W.R., Furze, M.F.A., Kjellman, S.E., Kirchner, N., Erstorp, E.S., Noormets, R., Jomelli, V., Ingólfsson, Ó., 2025. Weichselian–Holocene glacial history of the Sjuøyane archipelago, northern Svalbard. *Boreas* 54, 288-304, <http://doi.org/10.1111/bor.12673>
- Sharma, U., Ray, Y., Sagwal, S., Sangode, S.J., 2025. Spatio-temporal variability of Quaternary glaciation in the arid alpine Spiti basin, Trans-Himalaya: Insights from luminescence dating and sedimentological analyses. *Palaeogeography, Palaeoclimatology, Palaeoecology* 679, 113322, <http://doi.org/10.1016/j.palaeo.2025.113322>
- Simms, A.R., DeWitt, R., Bradley, S.L., Huffman, E., Best, L., Bradwell, T., Lloyd, J.M., Kachuck, S.B., 2025. Was Scotland covered by an ice sheet during Marine Isotope Stage 4? Insights from the pre-Last Glacial

Maximum marine terraces of northwest Scotland. *Journal of Quaternary Science* 40, 1097-1105, <http://doi.org/10.1002/jqs.70000>

- lacustrine

- Fitzsimmons, K.E., Fischer, M.L., Smith, T., Lauer, T., Nowatzki, M., Mishra, K., Murray-Wallace, C.V., 2025. Long-term hydrologic connectivity on the Australian dryland margins: Evidence from the Willandra Lakes World Heritage Area over the last 60 ky. *Journal of Quaternary Science* 40, 876-892, <http://doi.org/10.1002/jqs.3717>
- Gutiérrez, F., Haghighi, M.H., Ilyati, I., Motagh, M., del Val, M., 2025. Diapiric and tectonic geomorphology of the river-damming Jahani salt extrusion associated with the strike-slip Karez Bas Fault, including DInSAR displacement data (Zagros Mountains, Iran). *Geomorphology* 488, 109955, <http://doi.org/10.1016/j.geomorph.2025.109955>
- Karlstrom, K.E., Baisan, C.H., Kring, D.A., Hereford, R., Turney, C., Hogg, A., Norman, L.M., O'Brien, P., Palmer, J.G., Rittenour, T.M., Ballensky, J., Crossey, L.J., 2025. Grand Canyon landslide-dam and paleolake triggered by the Meteor Crater impact at 56 ka. *Geology* 53, 821-826, <http://doi.org/10.1130/g53571.1>
- Larsen, N.K., Siggaard-Andersen, M.L., Buylaert, J.P., Murray, A.S., Olsen, J., Ruter, A., Kjeldsen, K.K., Bjork, A.A., Mikkelsen, N., Kjær, K.H., 2025. Increased aeolian activity linked to Neoglacial cooling and glacier advance in southern Greenland. *Boreas* 54, 382-394, <http://doi.org/10.1111/bor.12688>
- Liu, X., Quan, C., Liu, Z., Li, R., 2025. Late Pleistocene megalake system in the Yinchuan-Hetao rift basins, upper reaches of the Yellow River. *Quaternary Science Reviews* 365, 109473, <http://doi.org/10.1016/j.quascirev.2025.109473>
- Long, H., Zhang, J., Zhang, S., Hou, Y., Wu, Y., Yang, N., Zhang, C., Cheng, L., Zhao, Z., Cheng, J., Shen, J., 2025. The westerlies-monsoon interaction shaped asymmetric lake expansions over the Tibetan Plateau in warming periods. *Science Bulletin* 70, 3245-3254, <http://doi.org/10.1016/j.scib.2025.07.023>
- Michalec, G., Sikora, R., Winiarska-Kabacińska, M., Odsuren, D., Wójcik, A., Moska, P., Szmit, M., Bazargur, D., Bobrowski, P., Jórdeczka, M., Szykalski, J., Muntowski, P., Gałaś, A., Gunchinsuren, B., Masojć, M., 2025. Geoarchaeological research on site formation process, paleoenvironment, and human behaviors in the early Holocene of the Gobi Desert, Mongolia. *PLOS One* 20, e0330209, <http://doi.org/10.1371/journal.pone.0330209>
- Tian, R., Yan, B., He, C., Yuan, W., Lin, P., Song, Y., Liu, B., Liu, Y., Miao, X., Lai, Z., 2025. Paleolakes in the lower Yellow River plain since the last deglaciation: age, distribution, and mechanism. *Catena* 259, 109315, <http://doi.org/10.1016/j.catena.2025.109315>
- Yang, A., Hu, K., Wang, H., Liu, W., Zhang, Q., Liu, S., Li, H., 2025. Evolution of a landslide-dammed lake during the Holocene: Records from lacustrine and fan-delta successions in southeastern Tibet. *Earth Surface Processes and Landforms* 50, e70104, <http://doi.org/10.1002/esp.70104>
- Zhao, H., Liu, W., Li, X., Yang, A., Zhou, L., Zhou, Y., Yang, S., 2025. The genesis, evolution, and geomorphological significance of the Kangkong Paleolake in the PhungQu Basin of southern Tibet. *Geomorphology* 488, 109964, <http://doi.org/10.1016/j.geomorph.2025.109964>
- Zhao, H., Zhang, S., Sheng, Y., Yang, Z., Wang, K., Chen, F., 2025. Timing of mega-lakes in the central-southern Tibetan Plateau constrained by K-feldspar single-grain pIRIR dating of paleo-shorelines. *Global and Planetary Change* 254, 104989, <http://doi.org/10.1016/j.gloplacha.2025.104989>
- Zhao, Y., Fan, N., An, Y., Nie, J., Abell, J.T., Jin, Z., Wang, C., Nie, R., Liu, X., 2025. Co-evolution of palaeolakes in the Hetao Basin and the Yellow River over the last 500 ka. *Palaeogeography, Palaeoclimatology, Palaeoecology* 674, 113038, <http://doi.org/10.1016/j.palaeo.2025.113038>

- landslide

- Bispo, C.O., Listo, F.L.R., Listo, D.G.S., 2025. Shallow translational landslides on the east face of Araripe Plateau, northeastern Brazil: SHALSTAB model and Optically Stimulated Luminescence (OSL) dating. *Journal of South American Earth Sciences* 162, 105582, <http://doi.org/10.1016/j.jsames.2025.105582>
- Yang, A., Hu, K., Wang, H., Liu, W., Zhang, Q., Liu, S., Li, H., 2025. Evolution of a landslide-dammed lake during the Holocene: Records from lacustrine and fan-delta successions in southeastern Tibet. *Earth Surface Processes and Landforms* 50, e70104, <http://doi.org/10.1002/esp.70104>

- loess

- Ali, A., Achyuthan, H., Sangode, S.J., Jaiswal, M., Shah, R.A., 2025. Palaeoclimate Dynamics in Kashmir Valley: Loess Palaeosols and shifts in Mineral Magnetism during MIS 3. *Journal of the Geological Society of India* 101, 968-973, <http://doi.org/10.17491/jgsi/2025/174193>

- Chang, Q., Miao, X., Xie, X., Lai, Z., 2025. Luminescence dating and the sedimentary pattern of loess on the Tibetan Plateau. *Aeolian Research* 74, 100994, <http://doi.org/10.1016/j.aeolia.2025.100994>
- Hu, X., Zhang, Y., Li, C.a., Li, G., Liu, J., Li, Y., Su, J., Jia, M., 2025. Provenance of Wushan Loess in the Yangtze Three Gorges Region: Insights from Detrital Zircon U-Pb Geochronology and Late Pleistocene East Asian Monsoon Variations. *Minerals* 15, 1180, <http://doi.org/10.3390/min15111180>
- Kang, J., Zan, J., Yang, S., Li, P., Liu, L., Fang, X., Zhang, W., Azamdzhon, M., 2025. Luminescence dating of three loess-paleosol sequences in the western Pamir Plateau and their paleoclimatic implications during the Late Pleistocene. *Palaeogeography, Palaeoclimatology, Palaeoecology* 680, 113317, <http://doi.org/10.1016/j.palaeo.2025.113317>
- Li, M., Zhang, Y., Zhu, Y., Dou, H., Li, S., Xu, X., Zhou, J., Jin, Y., Cao, P., Li, Z., Wang, Z., Wang, J., Akramovich, S.A., Dong, J., 2025. The relationship between Holocene environmental evolution and human activities on the Chinese Loess Plateau inferred from an aeolian loess-paleosol profile in the Xitou Ruins. *Catena* 258, 109271, <http://doi.org/10.1016/j.catena.2025.109271>
- Liu, B., Jin, H., Ge, J., Liang, X., Liang, A., Jin, J., Zhang, C., Zhao, H., Zhao, S., 2025. Quantitative analysis of the chromaticity of Holocene aeolian sand-paleosol sequences and its application to palaeoclimate reconstruction across the Asian summer monsoonal boundary of northern China. *Catena* 259, 109394, <http://doi.org/10.1016/j.catena.2025.109394>
- Wang, L., Yang, J., Gao, F., Wang, H., Zhang, C., Qu, W., Li, J., Tang, J., Liu, X., Liu, Y., Zhao, L., Wang, S., Wang, Y., Wang, F., Xia, D., 2025. Western Pacific subtropical high regulated the spatiotemporal pattern of East Asian summer monsoon precipitation during the Holocene. *Palaeogeography, Palaeoclimatology, Palaeoecology* 678, 113252, <http://doi.org/10.1016/j.palaeo.2025.113252>
- Wei, X., Jiang, H., Bai, Y., Shi, W., Xu, H., Ma, X., Zhong, N., Li, S., Yin, Q., 2025. MIS 3 climate transitions revealed by high-resolution loess records from the eastern margin of the Tibetan Plateau. *Palaeogeography, Palaeoclimatology, Palaeoecology* 667, 112874, <http://doi.org/10.1016/j.palaeo.2025.112874>
- Yang, S., Liu, L., Li, D., Li, R., Liu, W., Luo, Y., Li, P., Zan, J., Fang, X., 2025. New luminescence chronology of a loess-paleosol sequence at Jinchuan and its implications for aeolian deposition processes in the Tibetan Plateau. *Geomorphology* 478, 109730, <http://doi.org/10.1016/j.geomorph.2025.109730>
- Zhang, W., Ding, G., Zhang, Y., Li, Y., Li, B., Lu, C., Tan, B., Sun, A., Fu, Y., An, C., 2025. Evolution of fire activity in arid Central Asia since ~12.9 ka: Transitioning from natural to anthropogenic forces. *Catena* 257, 109213, <http://doi.org/10.1016/j.catena.2025.109213>
- Zhou, Y., Sun, L., Xie, Y., Kang, C., Wei, C., Wang, Y., Wei, Z., Wu, P., Liu, H., 2025. Evolution of the East Asian Summer Monsoon in the Songnen Plain, NE China since 195 ka recorded by the Harbin loess succession. *Catena* 259, 109343, <http://doi.org/10.1016/j.catena.2025.109343>

- soil

- Ali, A., Achyuthan, H., Sangode, S.J., Jaiswal, M., Shah, R.A., 2025. Palaeoclimate Dynamics in Kashmir Valley: Loess Palaeosols and shifts in Mineral Magnetism during MIS 3. *Journal of the Geological Society of India* 101, 968-973, <http://doi.org/10.17491/jgsi/2025/174193>
- Amrein, S., Egli, M., Duszyński, F., Migoń, P., Jancewicz, K., Tikhomirov, D., Waroszewski, J., 2025. Soil dynamics along an escarpment of a quartz sandstone tableland. *Geomorphology* 481, 109793, <http://doi.org/10.1016/j.geomorph.2025.109793>
- Brandolini, F., Kinnaird, T.C., Srivastava, A., Costanzo, S., Compastella, C., Turner, S., 2025. Geoarchaeology reveals development of terrace farming in the Northern Apennines during the Medieval Climate Anomaly. *Scientific Reports* 15, 24989, <http://doi.org/10.1038/s41598-025-08396-2>
- Chen, J., Zong, H., Yan, Z., Guo, Y., Zhang, D., Yang, X., He, Y., Fu, X., 2025. Age and pedogenesis of alpine grassland soils on the northeastern Qinghai-Tibetan Plateau: Insights from optical dating. *Catena* 258, 109217, <http://doi.org/10.1016/j.catena.2025.109217>
- Seidel, P., Rolf, M., Holzinger, A., Gröbner, M., Riedesel, S., Laermanns, H., Feldhaar, H., Laforsch, C., Loeder, M.G.J., Bogner, C., 2025. Vertical distribution and post-depositional translocation of microplastics in a Rhine floodplain soil. *Microplastics and Nanoplastics* 5, 34, <http://doi.org/10.1186/s43591-025-00142-9>
- Wang, L., Yang, J., Gao, F., Wang, H., Zhang, C., Qu, W., Li, J., Tang, J., Liu, X., Liu, Y., Zhao, L., Wang, S., Wang, Y., Wang, F., Xia, D., 2025. Western Pacific subtropical high regulated the spatiotemporal pattern of East Asian summer monsoon precipitation during the Holocene. *Palaeogeography, Palaeoclimatology, Palaeoecology* 678, 113252, <http://doi.org/10.1016/j.palaeo.2025.113252>
- Zhang, A., Long, H., Yang, F., Zhang, J., Peng, J., Zhang, G., 2025. Luminescence dating illuminates soil evolution. *Earth-Science Reviews* 265, 105103, <http://doi.org/10.1016/j.earscirev.2025.105103>

- tephra (and volcanic related)

- Anil, D., Devi, M., Sukumaran, P., Lakshmi, B.V., Deenadayalan, K., Kumar, S., Anoop, A., Khan, Z., Mahesh, V., Jha, G., Ajithprasad, P., Chauhan, N., 2025. Youngest Toba Tuff (YTT) beds as a Late Pleistocene isochron in the Indian subcontinent? New geochronological and sedimentological insights. *Journal of Quaternary Science* 40, 1176-1190, <http://doi.org/10.1002/jqs.70003>
- Huang, C., Wang, C., Fan, A., Li, S.-H., 2025. Luminescence dating of lava-baked sediments constraints on the high frequency of Holocene eruptions in the Tengchong volcanic field, southwestern China. *Science China Earth Sciences* 68, 4202-4217, <http://doi.org/10.1007/s11430-024-1687-1>

Archaeology applications

- Burnett, G., Neal, C., Reid, T., Mason, J., Doelman, T., Frolich, A., Fermor, D., Talbott, S., Mayers, W., Williams, A.N., 2025. An archaeological record of late Holocene activity and colonial impacts in the New England Tableland, New South Wales, Australia. *Journal of Archaeological Science: Reports* 67, 105363, <http://doi.org/10.1016/j.jasrep.2025.105363>
- Cáceres Puro, L.M., Donaire Romero, T., Lozano Rodríguez, J.A., Díaz-Guardamino, M., Martínez-Sevilla, F., Medialdea, A., Val, M.d., Alcaina-Mateos, J., Rodríguez-Vidal, J., Muñiz Guinea, F., Vargas Jiménez, J.M., Rogerio-Candelera, M.Á., García Sanjuán, L., 2025. Seafaring megaliths: A geoarchaeological approach to the Matarrubilla giant stone basin at Valencia (Spain). *Journal of Archaeological Science* 180, 106263, <http://doi.org/10.1016/j.jas.2025.106263>
- Campaña, I., Duval, M., Alvaro-Gallo, A., Guilarte, V., Shao, Q., Ortega, A.I., Arnold, L.J., Demuro, M., Bermúdez de Castro, J.M., Carbonell, E., 2025. Characterizing and dating authigenic phosphates from the sedimentary infill of Atapuerca archaeo-paleoanthropological cave sites (Spain). *Quaternary Geochronology* 89, 101674, <http://doi.org/10.1016/j.quageo.2025.101674>
- Falguères, C., Gruppioni, G., Bahain, J.J., Dolo, J.M., Peresani, M., 2025. Dating the Middle Palaeolithic of Fumane Cave by the combined ESR/U-series method. *Journal of Quaternary Science* 40, 862-875, <http://doi.org/10.1002/jqs.3719>
- Gkouma, M., Karkanias, P., Koukousioura, O., Syrides, G., Chalkioti, A., Tsakalos, E., Ntinou, M., Efstratiou, N., 2025. Exploring Continental and Submerged Paleolandscapes at the Pre-Neolithic Site of Ouriakos, Lemnos Island, Northeastern Aegean, Greece. *Quaternary* 8, 42, <http://doi.org/10.3390/quat8030042>
- Goodman, R., Giosan, L., Shen, Z., Zimmerman, P., Lang, A., Constantinescu, S., Pizzimenti, S., Alrawi, Z., Pittman, H., 2025. The Flooding of Lagash (Iraq): Evidence for Urban Destruction Under Lugalzagesi, the King of Uruk and Umma. *Geoarchaeology* 40, e70027, <http://doi.org/10.1002/gea.70027>
- Guo, X., Sun, X., Yao, Y., Yu, L., Li, F., Yi, S., Shao, K., Teng, L., Wang, Y., Zhao, C., Bae, C.J., Lu, H., 2025. Chronology of dozens of Late Paleolithic sites in the Ulan Buh Desert, northwest China. *Quaternary Science Reviews* 368, 109573, <http://doi.org/10.1016/j.quascirev.2025.109573>
- Hakim, B., Wibowo, U.P., van den Bergh, G.D., Yurnaldi, D., Joannes-Boyau, R., Duli, A., Suryatman, Sardi, R., Nurani, I.A., Puspaningrum, M.R., Mahmud, I., Haris, A., Anshari, K.A., Saiful, A.M., Arman Bungaran, P., Adhityatama, S., Muhammad, P.H., Akib, A., Somba, N., Fakhri, Burhan, B., Mas'ud, Z., Moore, M.W., Perston, Y.L., Yu, W., Aubert, M., Brumm, A., 2025. Hominins on Sulawesi during the Early Pleistocene. *Nature* 646, 378-383, <http://doi.org/10.1038/s41586-025-09348-6>
- Karampaglidis, T., Fenn, K., Gasparyan, B., Braucher, R., Lauer, T., Vainer, S., Gevorgyan, H., Arakelyan, D., Oikonomou, I., Haydosyan, H., Rogall, D., Carrasco, R.M., Pedraza, J., Petrosyan, A., Malinsky-Buller, A., 2025. Paleolithic hominin occupations and Quaternary geomorphological evolution in the NE Ararat Depression (Armenia). *Quaternary Science Reviews* 368, 109532, <http://doi.org/10.1016/j.quascirev.2025.109532>
- Kaur, A.P., Skinner, A., Patnaik, R., 2025. Electron Spin Resonance (ESR) dating of fossil mammals from the Pinjor Formation, Upper Siwaliks, India. *Quaternary International* 744, 109920, <http://doi.org/10.1016/j.quaint.2025.109920>
- Leplongeon, A., Ben Arous, E., Mesfin, I., Forestier, H., Gallet, X., Griggo, C., Puaud, S., Sémah, A.-M., Vialou, A., Pleurdeau, D., Lourdeau, A., 2025. The Last Glacial Maximum in the Tropics: Human Responses to Global Change, 30–10 ka. *Journal of World Prehistory* 38, 7, <http://doi.org/10.1007/s10963-025-09197-1>
- Li, M., Zhang, Y., Zhu, Y., Dou, H., Li, S., Xu, X., Zhou, J., Jin, Y., Cao, P., Li, Z., Wang, Z., Wang, J., Akramovich, S.A., Dong, J., 2025. The relationship between Holocene environmental evolution and human activities on the Chinese Loess Plateau inferred from an aeolian loess-paleosol profile in the Xitou Ruins. *Catena* 258, 109271, <http://doi.org/10.1016/j.catena.2025.109271>
- Malapaka, I., 2025. Archaeoceramic Traditions of India: Markers of Cultural Change and Continuity. *International Journal of Science and Research* 14, 612-616, <http://doi.org/10.21275/sr25924085646>

- Martín-Perea, D.M., Medialdea, A., Marín, J., Abellán, N., Solano-Megías, I., Arteaga, C., Rodríguez-Hidalgo, A., Uribealdea, D., Arroyo, X., Gidna, A., Mabulla, A., Maíllo-Fernández, J.M., 2025. Geology and chronology of the Ndotu and Naisiusiu type sites: implications for Middle and Later Stone Age occupations at Olduvai Gorge (Tanzania). *Quaternary Science Reviews* 368, 109578, <http://doi.org/10.1016/j.quascirev.2025.109578>
- Medialdea, A., Damiani, S., Zeman, M., 2025. Contribution to the chronological study of the Dubrovnik Cathedral using optically stimulated luminescence. *npj Heritage Science* 13, 474, <http://doi.org/10.1038/s40494-025-01990-7>
- Michalec, G., Sikora, R., Winiarska-Kabacińska, M., Odsuren, D., Wójcik, A., Moska, P., Szmit, M., Bazargur, D., Bobrowski, P., Jórdeczka, M., Szykalski, J., Muntowski, P., Gałaś, A., Gunchinsuren, B., Masojć, M., 2025. Geoarchaeological research on site formation process, paleoenvironment, and human behaviors in the early Holocene of the Gobi Desert, Mongolia. *PLOS One* 20, e0330209, <http://doi.org/10.1371/journal.pone.0330209>
- Mihailović, B., Mihailović, D., Dragosavac, S., Marković, J., Pajović, D., Silva, L.O., Skinner, A., Roksandic, M., 2025. Late Middle Paleolithic and Early Upper Paleolithic of the Western Balkans: lithic assemblages from Šalitrena Pećina (Serbia). *Quaternary International* 749, 109990, <http://doi.org/10.1016/j.quaint.2025.109990>
- Noghani, S., Sharifinia, A., Emami, M., Hassan Rozatian, A.S., Abdellatif, M., Khanzadi, M., 2025. Geochemical provenance studies of cultural materials from Sirvan historical Site, Ilam Province, Iran. *Journal of Archaeological Science: Reports* 66, 105302, <http://doi.org/10.1016/j.jasrep.2025.105302>
- Pawlak, N.K., Chruścińska, A., Palczewski, P., Sulkowska-Tuszyńska, K., 2025. Optically stimulated luminescence dating of ancient bricks from the Church of St James in Toruń, Poland. *Archaeometry* 67, 1098-1117, <http://doi.org/10.1111/arcem.13069>
- Peng, Q., Sun, M., Sun, Y., Shi, Y., Li, Y., E, C., 2025. Luminescence dating on ceramics from the Tianjun Shilin Cave around Qinghai lake in the northeastern Qinghai-Tibet plateau. *Quaternary International* 746, 109912, <http://doi.org/10.1016/j.quaint.2025.109912>
- Phetkongtong, T., Klubket, P., Pailoplee, S., Limsuwan, P., Thongpool, V., 2025. Optically Stimulated Luminescence Dating of Earthenware from the Nam Tok Khao Pang Archaeological Site, Kanchanaburi, Thailand. *Journal of Metals, Materials and Minerals* 35, e2389, <http://doi.org/10.55713/jmmm.v35i4.2389>
- Phetkongtong, T., Limsuwan, P., Pailoplee, S., Thongpool, V., 2025. Luminescence Dating of Brick from Nakhon Kalong City Archaeological Site in Northeastern Thailand. *Suranaree Journal of Science and Technology* 32, 030317, <http://doi.org/10.55766/sujst9931>
- Saadi Ahadova, A., 2025. Radiocarbon, ESR and thermoluminescence (TL) dating of archeological monuments in Azerbaijan. *Journal of Young Researcher* 3, <http://doi.org/10.59849/2409-4838.2025.3.126>
- Saktura, W.M., Jacobs, Z., Lin, S., O'Connor, S., Roberts, R.G., Malanali, W., Collins, P., 2025. Site Formation History of Widgingarri Shelter 1, Northwestern Australia and Investigation of Postdepositional Disturbance With Single-Grain OSL Dating and Soil Micromorphology. *Geoarchaeology* 40, e70031, <http://doi.org/10.1002/gea.70031>
- Sanjurjo-Sánchez, J., Guasch-Ferré, N., Pitarch Martí, A., Badia, M., Menchon, J., Casas, L., Prada, J.L., 2025. New insights into the chronology of the Les Ferreres Aqueduct (Tarragona, Spain) by combining petrographic analyses and OSL dating on lime mortars. *Journal of Cultural Heritage* 76, 327-337, <http://doi.org/10.1016/j.culher.2025.10.004>
- Sanjurjo-Sánchez, J., Morera Campubí, J., Vila, O.O., 2025. First Evidence of Roman Gold Mining Obtained by Luminescence Dating of Sediments in Les Guilleteres D'All (Cerdanya, Girona, Eastern Pyrenees). *Land* 14, 1912, <http://doi.org/10.3390/land14091912>
- Santi, P., Veneri, F., Tonelli, G., Tramontana, M., Panzeri, L., Galli, A., Renzulli, A., 2025. The brick material culture of Urbino (UNESCO World Heritage, Central Italy) as inferred from a multidisciplinary archaeometric study on the historic architecture. *Built Heritage* 9, 63, <http://doi.org/10.1186/s43238-025-00233-9>
- Stanistreet, I.G., Stollhofen, H., Smedley, R.K., Fenn, K., Ambrose, S.H., Njau, J.K., Schick, K., Toth, N., 2025. Luminescence and radiocarbon dating the Naisiusiu Beds type section and timing of the Middle Stone Age/Later Stone Age transition at Olduvai Gorge, Tanzania. *Journal of Human Evolution* 207, 103675, <http://doi.org/10.1016/j.jhevol.2025.103675>
- Teng, L., Sun, X., Liu, H., Zhao, N., Yi, S., Li, F., Guo, X., Yao, Y., Wang, Y., Bae, C.J., Lu, H., 2025. Newly discovered Late Paleolithic sites in the southeastern margin of the Badain Jaran Desert, northwest China. *Quaternary Science Reviews* 367, 109542, <http://doi.org/10.1016/j.quascirev.2025.109542>

- van Beek, R., Chamberlain, E.L., de Nooijer, K., Gerritsen, S., Bartels, M., Wallinga, J., 2025. Dating earthworks with luminescence: Insights from the medieval ringfort of Den Burg, Texel (the Netherlands). *Quaternary Geochronology* 88, 101669, <http://doi.org/10.1016/j.quageo.2025.101669>
- Wang, C., Shi, L., Cao, Y., Fang, L., 2025. Comparative study of luminescence dating of pottery and sediments from the Holocene Zhuqiushi site in Central China. *Journal of Archaeological Science* 180, 106270, <http://doi.org/10.1016/j.jas.2025.106270>
- Wang, J., Tan, P., Feng, Y., Zheng, Z., Guo, Y., He, J., Wang, Y., Zhang, J., 2025. Human presence in the southeastern Tibetan Plateau after the Last Glacial Maximum. *Palaeogeography, Palaeoclimatology, Palaeoecology* 667, 112878, <http://doi.org/10.1016/j.palaeo.2025.112878>
- Way, A.M., Nejman, L., Hughes, P., Lisá, L., Wright, D., Nývltová Fišáková, M., Sullivan, M., Moska, P., Spooner, N.A., Škrdla, P., Mlejnek, O., Skopal, N., Neruda, P., Nerudová, Z., Přichystal, A., Králík, M., Šůvová, Z., 2025. Re-excavation of cultural deposits at Švédův stůl cave in the Moravian Karst, Czech Republic. *Journal of Archaeological Science: Reports* 67, 105449, <http://doi.org/10.1016/j.jasrep.2025.105449>
- Wei, J., Jin, J., Ling, Z., Zhang, W., Wei, C., Zuo, X., Li, Z., Hou, C., Xu, D., 2025. Chronological sequencing, site selection, and environmental context of Neolithic island settlements in southeastern coastal China. *Quaternary International* 748, 109978, <http://doi.org/10.1016/j.quaint.2025.109978>
- Westell, C., Roberts, A., Morley, M.W., Moffat, I., Hernandez, V.C., Spooner, N.A., McDonnell, K., Rudd, R., Petchey, F., 2025. Life beyond the lakes: An analysis and implications of a Pleistocene combustion feature on the Pike River in South Australia. *Journal of Archaeological Science* 180, 106264, <http://doi.org/10.1016/j.jas.2025.106264>
- Yu, W., Herries, A.I.R., Joannes-Boyau, R., 2025. The challenges of direct dating of fossil teeth from the *Australopithecus africanus*, Taung Child type site, South Africa. *Quaternary Geochronology* 90, 101696, <http://doi.org/10.1016/j.quageo.2025.101696>

ESR, basic and applied research

- Campaña, I., Duval, M., Álvaro-Gallo, A., Guilarte, V., Shao, Q., Ortega, A.I., Arnold, L.J., Demuro, M., Bermúdez de Castro, J.M., Carbonell, E., 2025. Characterizing and dating authigenic phosphates from the sedimentary infill of Atapuerca archaeo-paleoanthropological cave sites (Spain). *Quaternary Geochronology* 89, 101674, <http://doi.org/10.1016/j.quageo.2025.101674>
- Falguères, C., Gruppioni, G., Bahain, J.J., Dolo, J.M., Peresani, M., 2025. Dating the Middle Palaeolithic of Fumane Cave by the combined ESR/U-series method. *Journal of Quaternary Science* 40, 862-875, <http://doi.org/10.1002/jqs.3719>
- Hakim, B., Wibowo, U.P., van den Bergh, G.D., Yurnaldi, D., Joannes-Boyau, R., Duli, A., Suryatman, Sardi, R., Nurani, I.A., Puspaningrum, M.R., Mahmud, I., Haris, A., Anshari, K.A., Saiful, A.M., Arman Bungaran, P., Adhityatama, S., Muhammad, P.H., Akib, A., Somba, N., Fakhri, Burhan, B., Mas'ud, Z., Moore, M.W., Perston, Y.L., Yu, W., Aubert, M., Brumm, A., 2025. Hominins on Sulawesi during the Early Pleistocene. *Nature* 646, 378-383, <http://doi.org/10.1038/s41586-025-09348-6>
- Kaur, A.P., Skinner, A., Patnaik, R., 2025. Electron Spin Resonance (ESR) dating of fossil mammals from the Pinjor Formation, Upper Siwaliks, India. *Quaternary International* 744, 109920, <http://doi.org/10.1016/j.quaint.2025.109920>
- Mihailović, B., Mihailović, D., Dragosavac, S., Marković, J., Pajović, D., Silva, L.O., Skinner, A., Roksandic, M., 2025. Late Middle Paleolithic and Early Upper Paleolithic of the Western Balkans: lithic assemblages from Šalitrena Pećina (Serbia). *Quaternary International* 749, 109990, <http://doi.org/10.1016/j.quaint.2025.109990>
- Mothé, D., Kinoshita, A., Baffa, O., Luna, C.A., 2025. Doing the time warp again: Electron Spin Resonance dating reveals oldest numeric age for *Notiomastodon platensis* Ameghino, 1888 (Mammalia, Proboscidea). *Geobios* 91, 81-88, <http://doi.org/10.1016/j.geobios.2024.11.008>
- Prince, E., Tsukamoto, S., Grützner, C., Bühlhoff, M., Ustaszewski, K., 2025. Deciphering Pleistocene Fault Activity in the Eastern Alps: Dating Fault Gouges With Electron Spin Resonance and Optically Stimulated Luminescence. *Tectonics* 44, 008662, <http://doi.org/10.1029/2024tc008662>
- Saadi Ahadova, A., 2025. Radiocarbon, ESR and thermoluminescence (TL) dating of archeological monuments in Azerbaijan. *Journal of Young Researcher* 3, <http://doi.org/10.59849/2409-4838.2025.3.126>
- Song, H., Liang, Z., Duan, M., Liu, M., Liu, L., Chen, Z., Han, S., Zhang, H., Zhou, C., 2025. Quaternary stratigraphy of Bayan borehole in eastern Songnen Plain and its paleoclimate significance. *Scientific Reports* 15, 32027, <http://doi.org/10.1038/s41598-025-15418-6>
- Xin, C., Yan, S., Li, H., Dai, X., Liu, T., Wang, J., 2025. Cenozoic Multiphasic Activity and Mesozoic Basin-Control Role of the Dingri–Gangba Fault, Southern Tibet: An Integrated Study of Structural Analysis,

- Stratigraphic Correlation, and ESR Geochronology. *Geosciences* 15, 440, <http://doi.org/10.3390/geosciences15110440>
- Yu, W., Herries, A.I.R., Joannes-Boyau, R., 2025. The challenges of direct dating of fossil teeth from the *Australopithecus africanus*, Taung Child type site, South Africa. *Quaternary Geochronology* 90, 101696, <http://doi.org/10.1016/j.quageo.2025.101696>
- Zhang, J., Tsukamoto, S., 2025. R scripts for dose rate calculation in trapped charge dating. *Ancient TL* 43, 20-28, <http://doi.org/10.26034/la.atl.2025.7701>
- Zhang, X., Ai, C., Kong, F., Zhao, J., Gong, Y., Pei, Y., He, J., 2025. Sediment Transport into the Saline Western Songnen Basin of NE China from the Late Early Pleistocene to the Early Holocene. *Land* 14, 2263, <http://doi.org/10.3390/land14112263>
- Zhou, Y., Sun, L., Xie, Y., Kang, C., Wei, C., Wang, Y., Wei, Z., Wu, P., Liu, H., 2025. Evolution of the East Asian Summer Monsoon in the Songnen Plain, NE China since 195 ka recorded by the Harbin loess succession. *Catena* 259, 109343, <http://doi.org/10.1016/j.catena.2025.109343>

Basic research

- Amorim, Y.F., Nunes, M.C.S., Chruścińska, A., Wiśniewski, K., Trindade, N.M., 2025. First LM-OSL analysis of natural alexandrite. *Radiation Measurements* 184, 107441, <http://doi.org/10.1016/j.radmeas.2025.107441>
- Amrein, S., Egli, M., Duszyński, F., Migoń, P., Jancewicz, K., Tikhomirov, D., Waroszewski, J., 2025. Soil dynamics along an escarpment of a quartz sandstone tableland. *Geomorphology* 481, 109793, <http://doi.org/10.1016/j.geomorph.2025.109793>
- Ataee, N., Roberts, H.M., Duller, G.A.T., 2025. Assessing the potential of a modified post-isothermal IRSL (pIt-IR) protocol to circumvent the problems posed by anomalous fading in polymineral fine grains. *Quaternary Geochronology* 88, 101676, <http://doi.org/10.1016/j.quageo.2025.101676>
- Gong, Z., Yan, H., Luo, M., 2025. Study the effect of irradiation, optical bleaching and heating on the thermal stability of OSL signals of quartz from dune sands in northern China. *Quaternary Geochronology* 88, 101672, <http://doi.org/10.1016/j.quageo.2025.101672>
- Hou, C., Jin, J., Ma, M., Liu, G., Ling, Z., Wei, J., Xu, D., 2025. Temporal variation of luminescence sensitivity and environmental changes during the mid-late Holocene recorded in estuarine coastal deposits from South China. *Catena* 255, 109022, <http://doi.org/10.1016/j.catena.2025.109022>
- Kitis, G., Polymeris, G.S., Peng, J., 2025. Determining equivalent dose for optically stimulated luminescence (OSL) dating with physically meaningful dose response curves. *Quaternary Geochronology* 88, 101671, <http://doi.org/10.1016/j.quageo.2025.101671>
- Lukas, E., Santos, A.M.C., Ganija, M., Veitch, P., 2025. Evaluating the effects of increased stimulation power on a beryllium oxide real-time optically stimulated luminescence fibre-coupled dosimeter. *Radiation Measurements* 184, 107439, <http://doi.org/10.1016/j.radmeas.2025.107439>
- Majgier, R., Maternicki, K., Mandowski, A., Moska, P., Biernacka, M., Kreutzer, S., 2025. The Helios OSL reader: a portable system for dating and dosimetry applications. *Geochronometria* 52, 208873, <http://doi.org/10.20858/geochr/208873>
- Marngar, A., Dubey, V., 2025. Thermoluminescence (TL) properties of quartz from different geological settings and their implications for geological dating and radiation dosimetry. *Journal of Radioanalytical and Nuclear Chemistry* 334, 7599-7621, <http://doi.org/10.1007/s10967-025-10464-w>
- Mañon, L.A.E., Riedesel, S., Opitz, S., Zander, A., Bell, A., Cieszyński, H., Reimann, T., 2025. How much K is OK? Evaluating different methods for K-concentration determination and the effect of the internal K concentration on feldspar luminescence dating. *Geochronology* 7, 475-492, <http://doi.org/10.5194/gchron-7-475-2025>
- Singhal, M., Moitra, H., Mitra, S., Panda, A., Yadav, J.K., Sarma, D.S., Kumar, D., Chauhan, N., Gupta, S., Singhvi, A.K., 2025. Luminescence characteristics of terrestrial Jarosite from Kachchh, India: A Martian analogue. *Meteoritics & Planetary Science* 60, 1921-1938, <http://doi.org/10.1111/maps.70021>
- Sontag-González, M., Murari, M.K., Jain, M., Frouin, M., Fuchs, M., 2025. Further investigations into the accuracy of infrared radiofluorescence (IR-RF) and its inter-comparison with infrared photoluminescence (IRPL) dating. *Geochronology* 7, 289-308, <http://doi.org/10.5194/gchron-7-289-2025>
- Xu, S., Rui, X., Guo, Y., Li, B., 2025. Testing micro-aliquot SGC and LnTn methods for age determination up to 780 ka using coarse K-feldspar grains from Nihewan Basin, northern China. *Quaternary Geochronology* 88, 101673, <http://doi.org/10.1016/j.quageo.2025.101673>

Dosimetry

- Ekendahl, D., Čemusová, Z., Sofer, Z., Plutnarová, I., 2025. Thermoluminescence and optically stimulated luminescence dosimetry with NaCl detectors made at different sintering temperatures. *Radiation Measurements* 184, 107443, <http://doi.org/10.1016/j.radmeas.2025.107443>
- Kreutzer, S., Martin, L., Miallier, D., Mercier, N., 2025. Environmental gamma dose rate measurements using cadmium zinc telluride (CZT) detectors. *Geochronology* 7, 229-246, <http://doi.org/10.5194/gchron-7-229-2025>
- Maßon, L.A.E., Riedesel, S., Opitz, S., Zander, A., Bell, A., Cieszynski, H., Reimann, T., 2025. How much K is OK? Evaluating different methods for K-concentration determination and the effect of the internal K concentration on feldspar luminescence dating. *Geochronology* 7, 475-492, <http://doi.org/10.5194/gchron-7-475-2025>
- Silva, C.R.E., Meira-Belo, L.C., 2025. Implementation of retrospective dosimetry using ceramic material from spark plugs. *Applied Radiation and Isotopes* 225, 112067, <http://doi.org/10.1016/j.apradiso.2025.112067>
- Toktamis, H., Güneş, Tamer S., Toktamis, D., 2025. Investigation of the Use of Naturally Grown CaCO₃ Crystals on Rocks as a Radiation Dosimeter via Thermoluminescence Method. *Luminescence* 40, e70217, <http://doi.org/10.1002/bio.70217>
- Zhang, J., Tsukamoto, S., 2025. R scripts for dose rate calculation in trapped charge dating. *Ancient TL* 43, 20-28, <http://doi.org/10.26034/la.atl.2025.7701>

Minerals other than quartz and feldspar

- Ekendahl, D., Čemusová, Z., Sofer, Z., Plutnarová, I., 2025. Thermoluminescence and optically stimulated luminescence dosimetry with NaCl detectors made at different sintering temperatures. *Radiation Measurements* 184, <http://doi.org/10.1016/j.radmeas.2025.107443>
- Toktamis, H., Güneş, Tamer S., Toktamis, D., 2025. Investigation of the Use of Naturally Grown CaCO₃ Crystals on Rocks as a Radiation Dosimeter via Thermoluminescence Method. *Luminescence* 40, <http://doi.org/10.1002/bio.70217>

Portable instruments

- Majgier, R., Maternicki, K., Mandowski, A., Moska, P., Biernacka, M., Kreutzer, S., 2025. The Helios OSL reader: a portable system for dating and dosimetry applications. *Geochronometria* 52, e208873, <http://doi.org/10.20858/geochr/208873>
- Smedley, R., Pannocho, N., Boyle, J., Clarke, D., Lario, J., Plater, A., 2025. Portable luminescence for rapidly identifying tsunami dynamics and responses in saltmarshes. *Science of the Total Environment* 1002, 180548, <http://doi.org/10.1016/j.scitotenv.2025.180548>

Review

- Leplongeon, A., Ben Arous, E., Mesfin, I., Forestier, H., Gallet, X., Griggo, C., Puaud, S., Sémah, A.-M., Vialou, A., Pleurdeau, D., Lourdeau, A., 2025. The Last Glacial Maximum in the Tropics: Human Responses to Global Change, 30–10 ka. *Journal of World Prehistory* 38, 7, <http://doi.org/10.1007/s10963-025-09197-1>
- McKeever, S.W.S., 2025. Glow curve deconvolution – Why are most published results wrong? Common pitfalls in measurement and analysis. *Radiation Measurements* 189, 107537, <https://doi.org/10.1016/j.radmeas.2025.107537>
- Riedesel, S., 2025. Not fade away - The persistence of fading in feldspar luminescence. *Ancient TL* 43, 9-19, <https://doi.org/10.26034/la.atl.2025.7620>
- Zhang, A., Long, H., Yang, F., Zhang, J., Peng, J., Zhang, G., 2025. Luminescence dating illuminates soil evolution. *Earth-Science Reviews* 265, 105103, <http://doi.org/10.1016/j.earscirev.2025.105103>

Statistics, simulation, and modelling

- Kitis, G., Polymeris, G.S., Peng, J., 2025. Determining equivalent dose for optically stimulated luminescence (OSL) dating with physically meaningful dose response curves. *Quaternary Geochronology* 88, <http://doi.org/10.1016/j.quageo.2025.101671>
- Lukas, E., Santos, A.M.C., Ganija, M., Veitch, P., 2025. Evaluating the effects of increased stimulation power on a beryllium oxide real-time optically stimulated luminescence fibre-coupled dosimeter. *Radiation Measurements* 184, 107439, <http://doi.org/10.1016/j.radmeas.2025.107439>

- Xu, S., Rui, X., Guo, Y., Li, B., 2025. Testing micro-aliquot SGC and LnTn methods for age determination up to 780 ka using coarse K-feldspar grains from Nihewan Basin, northern China. *Quaternary Geochronology* 88, 101673, <http://doi.org/10.1016/j.quageo.2025.101673>
- Yüksel, M., Deniz, F., Ünsal, E., 2025. ANN-Based Prediction of OSL Decay Curves in Quartz from Turkish Mediterranean Beach Sand. *Crystals* 15, 733, <http://doi.org/10.3390/cryst15080733>