

List of Scientific Publications

2023	<p>Hao, L.* , Tao, H.* , Liu, S., Lee, E.Y., Guo, R., Li, S., Qiu, J., Lv, C. (2023) Sedimentary evolution of the embayed beach from Qinghai Lake, northern Qinghai-Tibetan Plateau, China. <i>Journal of Paleolimnology</i> 70, 225–240.</p> <p>Zhao, Z., Qiu, N.* , Sun, Z.* , Lin, J., Zhang, J., Li, F., Zhang, J., Sun, L., Lee, E.Y. (2023) The paleo-lithospheric structure and tectono-magmatic processes of the plate-edge type passive margin on the northern South China Sea. <i>Gondwana Research</i> 120, 162–174.</p> <p>Essi, M-F.M.* , Atangana, J.Q.Y., Yem, M., Biouele, S.E.A., Lee, E.Y. (2023) Salt deposits of the Kribi-Campo Sub-basin revisited, using offshore 2D seismic and boreholes data: Depositional context and petroleum implications. <i>Proceedings</i> 87(1), 2.</p> <p>Lee, E.Y.*, Riquier, L., Tejada, M.L.G., Chun, S.S., White, L., Schnetger, B., Brumsack, H-J. (2023) Petrophysical characteristics of hydrothermally altered volcanoclastic-rich sedimentary rocks on the Naturaliste Plateau, offshore southwestern Australia (IODP Site U1513). <i>Proceedings</i> 87(1), 5.</p> <p>He, C., Zhao, Z.* , Lee, E.Y., Xue, Y. (2023) An approach to determine brittle upper crustal thinning: Insights into crustal extension discrepancy in the central part of Qiongdongnan Basin. <i>Frontiers in Earth Science</i> 10, 1016529.</p>
2022	<p>Lee, E.Y.*, D’Addabbo, A., Piretzidis, D. (2022) Editorial of Special Issue “Advances and Applications in Computational Geosciences”. <i>Geosciences</i> 12/12, 457.</p> <p>White, L.T.* , Forster, M.A., Tanner, D., Tejada, M.L.G., Hobbs, R., IODP Expedition 369 Science Party (2022) Age of magmatism and alteration of basaltic rocks cored at the base of IODP Site U1513, Naturaliste Plateau, southwestern Australia. <i>Australian Journal of Earth Sciences</i> 69, 383–405.</p>
2021	<p>Liu, S., Lee, E.Y.*, Zhang, J.* , Wagreich, M., Zhao, L., Liu, H. (2021) Tectono-paleogeographic impact on the depositional environment and provenance around the Chaiwopu Depression in the southern Junggar Basin, NW China. <i>Minerals</i> 11, 1237.</p> <p>Lee, E.Y.*, Tejada, M.L.G., Song, I., Chun, S.S., Schnetger, B., Brumsack, H-J., White, L.T., Riquier, L., Jones, M.M., Martinez, M. (2021) Petrophysical property modifications by alteration in a volcanic sequence at IODP Site U1513, Naturaliste Plateau. <i>Journal of Geophysical Research: Solid Earth</i> 126(10), e2020JB021061.</p> <p>Lee, E.Y.*, Kominz, M., Reuning, L., Gallagher, S.J., Takayanagi, H., Ishiwa, T., Knierzinger, W., Wagreich, M. (2021) Quantitative compaction trends of Miocene to Holocene carbonates off the west coast of Australia. <i>Australian Journal of Earth Sciences</i> 68, 1149–1161.</p> <p>Wolfring, E.* , Kaminski, M.A., Waśkowska, A., Petrizzo, M.R., Lee, E.Y., Wainman, C., Edvardsen, T (2021) Foraminiferal stratigraphy and paleoenvironments of a high latitude marginal marine basin - A Late Cretaceous record from IODP Site U1512 (Great Australian Bight, Indian Ocean). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> 580, 110604.</p> <p>Riquier, L., Lee, E.Y., Tejada, M.L.G. (2021) Data report: XRD mineral identification of a volcanic sequence at Site U1513 (Naturaliste Plateau), IODP Expedition 369. College Station, TX: International Ocean Discovery Program.</p> <p>Lee, E.Y., Song, I. (2021) Data Report: Moisture and Density (MAD) analysis and Ultrasonic velocity of Hole U1513E, IODP Expedition 369. College Station, TX: International Ocean Discovery Program.</p>
2020	<p>Lee, E.Y., Novotny, J., Wagreich, M. (2020) BasinVis 2.0 Guideline for Users. Open access.</p> <p>Harry, D.L.* , Tejada, M.L.G., Lee, E.Y., Wolfring, E., Wainman, C.C., Brumsack, H-J., Schnetger, B., Kimura, J-I., Riquier, L., Borissova, I., Hobbs, R., Jiang, T., Li, Y-X., Maritati, A., Martinez, M., Richter, C., Tagliaro, G.T., White, L.T. (2020) Evolution of the Southwest Australian Rifted Continental Margin During Breakup of East Gondwana: Results from IODP Expedition 369. <i>Geochemistry, Geophysics, Geosystems</i> 21, e2020GC009144.</p> <p>MacLeod, K.G.* , White, L.T., Wainman, C.C., Martinez, M., Jones, M.M., Batenburg, S.J., Riquier, L., Haynes, S.J., Watkins, D.K., Bogus, K.A., Brumsack, H-J., do Monte Guerra, R., Edgar, K.M., Edvardsen, T., Harry, D.L., Hasegawa, T., Hobbs, R.W., Huber, B.T., Jiang, T., Kuroda, J., Lee, E.Y., Li, Y-X., Maritati, A., O’Connor, L.K., Petrizzo, M.R., Quan, T.M., Richter, C., Tejada, M.L.G., Tagliaro, G., Wolfring, E. (2020) Late Cretaceous stratigraphy and paleoceanographic evolution in the Great Australian Bight Basin based on results from IODP Site U1512. <i>Gondwana Research</i> 83, 80–95.</p> <p>Lee, E.Y.*, Wolfring, E., Tejada, M.L.G., Harry, D.L., Wainman, C.C., Chun, S.S., Schnetger, B., Brumsack, H-J., Maritati, A., Martinez, M., Richter, C., Li, Y-X., Riquier, L., MacLeod, K.G., Waller, T.R., Borissova, I., Petrizzo, M.R., Huber, B.T., Kim, Y., IODP Expedition 369 Science Party (2020) Early Cretaceous subsidence of the Naturaliste Plateau defined by a new record of volcanoclastic-rich sequence at IODP Site U1513. <i>Gondwana Research</i> 82, 1–11.</p> <p>Lee, E.Y.*, Novotny, J., Wagreich, M. (2020) Compaction trend estimation and applications to sedimentary basin reconstruction (BasinVis 2.0). <i>Applied Computing & Geosciences</i> 5, 100015.</p> <p>Kim, Y., Huh, M., Lee, E.Y.* (2020) Numerical modelling to evaluate sedimentation effect on heat flow and subsidence during continental rifting. <i>Geosciences</i> 10, 451.</p> <p>Tejada, M.L.G., Lee, E.Y., Chun, S.S., Harry, D.L., Riquier, L., Wainman, C.C. (2020) Data Report: Petrology and volcanic stratigraphy at Site U1513, IODP Expedition 369. College Station, TX: International Ocean Discovery Program.</p> <p>Quan, T.M., Wu, T., Expedition 369 Scientists (2020) Isotopic records for carbonate and organic fractions from IODP Expedition 369, Hole U1515A. College Station, TX: International Ocean Discovery Program.</p> <p>Wainman, C.C.* , Borissova, I., Harry, D.L., Hobbs, R.W., Mantle, D.J., Maritati, A., Lee, E.Y., the Expedition 369 Scientists (2020) Evidence for non-marine Jurassic to earliest Cretaceous sediments in the pre-breakup section of the Mentelle Basin, southwestern Australia. <i>Australian Journal of Earth Sciences</i> 67, 89–105.</p> <p>Vahlenkamp, M.* , De Vleeschouwer, D., Batenburg, S.J., Edgar, K.M., Hanson, E., Martinez, M., Pälke, H., MacLeod, K.G., Li, Y-X., Richter, C., Bogus, K., Hobbs, R.W., Huber, B.T., Expedition 369 Scientific Participants (2020) An</p>

	astrochronology for the lower to middle Eocene of the Mentelle Basin (Australia) and its implications for the geologic time scale. <i>Earth and Planetary Science Letters</i> 529, 115865.
2019	<p>Lee, E.Y., Novotny, J., Wagreich, M. (2019) Subsidence analysis and visualization for sedimentary basin analysis and modelling. Springer: Cham, Switzerland.</p> <p>Knierzinger, W.*, Wagreich, M., Kiraly, F., Lee, E.Y., Ntaflos, T. (2019) TETGAR: A novel three-dimensional (3D) garnet provenance plot. <i>Journal of Geosciences</i> 64, 127–148.</p> <p>Knierzinger, W.*, Wagreich, M., Palzer-Khomenko, M., Gier, S., Meszar, M., Lee, E.Y., Koukal, V., Strauss, P. (2019) Provenance and palaeogeographic evolution of Lower Miocene sediments in the eastern North Alpine Foreland Basin. <i>Swiss Journal of Geosciences</i> 112, 269–286.</p> <p>Wainman, C.C.*, McCabe, P., Holford, S., Expedition 369 Party (2019) New insights on Upper Cretaceous stratigraphy and sedimentology of the Bight Basin, Australia from IODP Site U1512. <i>APPEA Journal</i> 59, 968–970.</p> <p>Hobbs, R., Huber, R., Bogus, K., Expedition 369 Scientists (2019) Australia Cretaceous Climate and Tectonics. Proceedings of the International Ocean Discovery Program, 369. College Station, TX: International Ocean Discovery Program.</p>
2018	<p>Lee, E.Y.*, Wagreich, M. (2018) Basin modelling with a MATLAB-based program, BasinVis 2.0: A case study on the southern Vienna Basin, Austria. <i>Journal of the Geological Society of Korea</i> 54, 615–630.</p> <p>Kim, Y., Lee, C., Lee, E.Y.* (2018) Numerical analysis of sedimentary compaction: Implications for porosity and layer thickness variation. <i>Journal of the Geological Society of Korea</i> 54/6, 631–640.</p> <p>Huber, B., Hobbs, R., Bogus, K., Expedition 369 Scientists (2018) Expedition 369 Preliminary Report: Australian Cretaceous Climate and Tectonics - Tectonic, paleoclimate, and paleoceanographic history of high-latitude southern margins of Australia during the Cretaceous. College Station, TX: International Ocean Discovery Program.</p> <p>Gallagher, S.J.*, Reuning, L., Himmler, T., Henderiks, J., De Vleeschouwer, D., Groeneveld, J., Rastigar Lari, A., Fulthorpe, C.S., Bogus, K., Renema, W., McGregor, H.V., Kominz, M.A., Auer, G., Baranwal, S., Castañeda, S., Christensen, B.A., Franco, D.R., Gurnis, M., Hallers, C., He, Y., Ishiwa, T., Iwatani, H., Jatiningrum, R.S., Korpanty, C.A., Lee, E.Y., Levin, E., Mamo, B.L., McHugh, C.M., Petrick, B.F., Potts, D.C., Takayanagi, H., Zhang, W. (2018) The enigma of rare Quaternary oolites in the Indian and Pacific Oceans: A result of global oceanographic physicochemical conditions or a sampling bias? <i>Quaternary Science Reviews</i> 200, 114–122.</p>
2017	<p>Christensen, B.A.*, Renema, W., Henderiks, J., De Vleeschouwer, D., Groeneveld, J., Castañeda, I.S., Reuning, L., Bogus, K., Auer, G., Ishiwa, T., McHugh, C.M., Gallagher, S.J., Fulthorpe, C.S., Mamo, B.L., Kominz, M.A., McGregor, H.V., Petrick, B.F., Takayanagi, H., Levin, E., Korpanty, C.A., Potts, D.C., Baranwal, S., Franco, D.R., Gurnis, M., Haller, C., He, Y., Himmler, T., Iwatani, H., Jatiningrum, R.S., Lee, E.Y., Rastigar, A., Zhang, W. (2017) Indonesian Throughflow drove Australian climate from humid Pliocene to arid Pleistocene. <i>Geophysical Research Letters</i> 44, 6914–6925.</p> <p>Groeneveld, J.*, Henderiks, J., Renema, W., McHugh, C.M., De Vleeschouwer, D., Christensen, B.A., Fulthorpe, C.S., Reuning, L., Gallagher, S.J., Bogus, K., Auer, G., Ishiwa, T., Potts, D.C., Himmler, T., Kominz, M.A., Korpanty, C.A., Mamo, B.A., McGregor, H.V., Baranwal, S., Castañeda, I.S., Franco, D.R., Gurnis, M., Haller, C., He, Y., Iwatani, H., Jatiningrum, R.S., Lee, E.Y., Levin, E., Petrick, B.F., Rastigar, A., Takayanagi, H., Zhang, W. (2017) Australian shelf sediments reveal shifts in Miocene Southern Hemisphere atmospheric circulation. <i>Science Advances</i> 3, e1602567.</p> <p>Gallagher, S.J., Fulthorpe, C.S., Bogus, K., Expedition 356 Scientists (2017) Indonesian Throughflow. Proceedings of the International Ocean Discovery Program, 356. College Station, TX: International Ocean Discovery Program.</p> <p>Gallagher, S.J., Fulthorpe, C.S., Bogus, K., Expedition 356 Scientists (2017) Expedition 356 Preliminary Report: Indonesian Throughflow. College Station, TX: International Ocean Discovery Program.</p> <p>De Vleeschouwer, D.*, Dunlea, A.G., Auer, G., Anderson, C.H., Brumsack, H., de Loach, A., Gurnis, M., Huh, Y., Ishiwa, T., Jang, K., Kominz, M.A., März, C., Schnetger, B., Murray, R.W., Pälke, H., Expedition 356 Shipboard Scientists (2017) Quantifying K, U and Th contents of marine sediments using shipboard natural gamma radiation spectra measured on DV JOIDES Resolution. <i>Geochemistry, Geophysics, Geosystems</i> 18, 1053–1064.</p> <p>Lee, E.Y.*, Wagreich, M. (2017) Polyphase tectonic subsidence evolution of the Vienna Basin inferred from quantitative subsidence analysis of the northern and central parts. <i>International Journal of Earth Sciences</i> 106/2, 687–705.</p>
2016	<p>Lee, E.Y.*, Wagreich, M. (2016) 3D visualization of the sedimentary fill and subsidence evolution in the northern and central Vienna Basin (Miocene). <i>Austrian Journal of Earth Sciences</i> 109/2, 241–251.</p> <p>Lee, E.Y.*, Novotny, J., Wagreich, M. (2016) BasinVis 1.0, a MATLAB®-based program for sedimentary basin subsidence analysis and visualization. <i>Computers & Geosciences</i> 91, 119–127.</p> <p>Palzer, M., Gier, S., Meszar, M., Knierzinger, W., Wagreich, M., Kallanxhi, M., Soliman, A., Lee, E.Y. (2016) Regional Tectonics, Sedimentation, and Chronology of the Molasse Basin in eastern Austria. OMV-Molasse Project End-Report.</p>
2015	Lee, E.Y. (2015) Integrated Basin Analysis of the Vienna Basin, central Europe. Doctoral dissertation, University of Vienna, Austria.
2011	Decker, K., Beidinger, A., Lee, E.Y. , Zamolyi, A. (2011) Tectonics of the Slovak part of the Vienna Basin and the adjacent Western Carpathians during the Lower Miocene. OMV-Karpatian Tectonics Slovakia Final Report.
2010	<p>Decker, K., Beidinger, A., Hoprich, M., Lee, E.Y., Zamolyi, A. (2010) Tectonics of the Slovak part of the Vienna Basin and the adjacent Western Carpathians during the Lower Miocene. OMV-Karpatian Tectonics Slovakia Mid-term Report.</p> <p>Lee, E.Y. (2010) Subsidence history of the Gunsan Basin in the Yellow Sea, offshore Korea. Master dissertation, Korea University of Science and Technology, Korea.</p> <p>Lee, E.Y.* (2010) Subsidence History of the Gunsan Basin (Cretaceous-Cenozoic) in the Yellow Sea, offshore Korea. <i>Austrian Journal of Earth Sciences</i> 103/1, 111–120.</p>

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