

Articles

In prep

- Haeckel M.**, Wallmann K., Schmidt M., Sommer S., Schönfeld J., Liebetrau V., Weise S. M. (in prep) Submarine groundwater discharge in the North Sea induced by oil & gas production activity?
- Haeckel M.**, Liebetrau V., de Beer D., Kutterolf S., Augustin N., Petersen S., Weise S. M. (in prep) Weathering of marine sediments induced by CO₂-rich fluids at the hydrothermal seeps of Yonaguni Knoll IV, southern Okinawa Trough. *Nature Geosciences*.
- Haeckel M.**, Pape T., Reitz A., Greinert J., Klauke I. (in prep) The methane budget of Black Sea sediments. *Global Biogeochemical Cycles*.
- Haeckel M.**, Wallmann K. (in prep) Porewater convection induced by focussed fluid venting: Implications for the calculation of geochemical fluxes and turnover rates at cold vents.
- Haeckel M.**, Liu L., Schmidt M. (in prep) Methane seepage induced clay mineral paragenesis.
- Deusner C., Bigalke N., Kossel E., **Haeckel M.** (in prep) CO₂ injection into submarine CH₄-hydrates: Towards the development of a gas hydrate conversion technology.
- Aloisi G., Kossel E., Bigalke N., Savy J.-P., Pansegrau M., **Haeckel M.** (in prep) Uptake of hydrate-forming gases by water confined to cylindrical capillaries.
- Legoix L.N., Deusner C., Ruffine L., Kossel E., **Haeckel M.** (in prep) Flow-through experiments in gas hydrate-bearing sediments with CH₄-CO₂-N₂ gas mixtures. *Frontiers in Earth Science*.
- Macheriotou L., Vanreusel A., MI2 partners (in prep) The known unknown: addressing the knowledge gap of connectivity in abyssal plains targeted for deep-sea mining.
- Volz J.B., Lange M., Köhler D., Geibert W., Stimac I., Paul S.A.L., **Haeckel M.**, Schmidt K., Kasten S. (submitted) Environmental characteristics of impact and reference areas before the first industrial trial of a prototype mining vehicle in the Clarion-Clipperton Zone. *Frontiers in Marine Science*.

Submitted

- Aloisi G., Albrecht C., Deusner C., Wallmann K., **Haeckel M.** (revised) Submarine weathering of detrital silicates reproduced in the laboratory. *Geochimica et Cosmochimica Acta*.

In press

published

- Gaziz I.-Z., de Stigter H., Mohrmann J., Heger K., Diaz M., Gillard B., Baeye M., Veloso-Alarcón M.E., Purkiani K., **Haeckel M.**, Vink A., Thomsen L., Greinert J. (2025) Monitoring benthic plumes, sediment redeposition and seafloor imprints caused by deep-sea polymetallic nodule mining. *Nature Communications* 16, 1229.
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