Publication List, Dr David J Janssen

Eawag students supervised by DJ Janssen are underlined.
Other students supervised or co-supervised by DJ Janssen are in *italics*.

Articles selected as the 5 most important are denoted by a *

PEER-REVIEWED JOURNAL ARTICLES (IN REVIEW)

[4] Faval, E., Cunillera, G., Keller, J., Dubois, N., **Janssen, D.J.**, Pasche, N. Rivers beneath the surface: how riverine inputs shape sedimentation in a large peri-alpine lake. *Manuscript in review at Aquatic Sciences*. Preprint available at: https://doi.org/10.21203/rs.3.rs-8204613/v1

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[2] *Gilliard, D.*, **Janssen, D.J.**, Steiner, Z., Zhang, Z., Bruggmann, S., Achterberg, E.A., Jaccard, S.L. Evolution of the water column, pore water and sediment chromium isotope composition at the Rainbow hydrothermal vent field, North Atlantic Ocean. *Revised* m*anuscript in review at Geochimica et Cosmochimica Acta*. Manuscript ID: GCA-D-25-00855R1.

[1] Wälchli, D.L., Rathinavelu S., Ackeret, J., Aquino, N. Jr., Beck, K., **Janssen, D.J.**, Bürgmann, H. Ripples of resistance: Unveiling antimicrobial resistance dynamics along Switzerland's Aare River. *Manuscript in revision at Water Research*. Manuscript ID: WR-S-25-18888. Preprint available at bioRxiv: https://doi.org/10.64898/2025.12.18.695068.

PEER-REVIEWED JOURNAL ARTICLES (PUBLISHED AND ACCEPTED)

[33*] Chiu, C.F., Archer, C., Vance, D., de Souza, G.F., Ellwood, M.J., **Janssen, D.J**. Elucidating the role of biogenic and authigenic phases in marine cycling of nickel with paired dissolved and particulate nickel isotopes. *Manuscript accepted at Earth and Planetary Science Letters*. Manuscript ID: EPSL-D-25-01647R1. *The submitted revision is attached with the 5 most important contributions.*

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INTERNATIONAL CONFERENCE PROCEEDINGS

[38] Chiu, C.F., Archer, C., Ellwood, M.J., **Janssen, D.J.** Elucidating the roles of water-column processes in marine cycling of nickel and cadmium with paired dissolved and particulate isotopes. Oral presentation at the 2026 Ocean Sciences Meeting, Glasgow Scotland, 23-27.02.2026.

[37] Doda, T., Rama, J., Sepulveda Steiner, O., Ulloa, H., **Janssen, D.**, Bouffard, D. Enhanced turbulent mixing across the lateral constriction of a two-basin lake. Oral presentation at the 2026 Ocean Sciences Meeting, Glasgow Scotland, 23-27.02.2026.

[36] Bruggmann, S., **Janssen, D.J**., Jaccard, S.L. Understanding the chromium isotope system: Filling the gaps between the water column and the sediment. Poster presentation at the 2025 Goldschmidt Conference, Prague, Czechia, 06-11.07.2025.

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[32] **Janssen, D.J.,** Kirichenko, Y., Damanik, A., Tolu, J., Tournier, N., Cahyarini, S.Y., Vogel, H. Trace element cycling in ferruginous waters: Modern constraints on generalizable v. local signals. Oral presentation at the 2025 Goldschmidt Conference, Prague, Czechia, 06-11.07.2025.

[31] Doda, T., Rama, J., Sepulveda Steiner, O., Ulloa, H.N., **Janssen, D**., Bouffard, D. Spatial variability of turbulent mixing across the constriction of a two-basin lake. Poster presentation at the 2025 EGU General Assembly, Vienna, Austria, 27.04 to 02.05.2025.

[30] Rama, J., Doda, T., Sepulveda Steiner, O., Ulloa, H., **Janssen, D**., Bouffard, D. The role of a lateral constriction in controlling water exchange and oxygen distribution in a two-basin lake. Oral presentation at the 2025 EGU General Assembly, Vienna, Austria, 27.04 to 02.05.2025.

[29] **Janssen, D.J.**, Rama, J., Vonlanthen DiNenna, P., Kirichenko, Y., Sepúlveda Steiner, O., Doda, T., Bouffard, D. The maintenance of intermediate redox states in deep waters of Lake Zug. Oral presentation at the 2025 EGU General Assembly, Vienna, Austria, 27.04 to 02.05.2025.

[28] Vogel, H., Damanik, A., **Janssen, D.J**., Tournier, N., Wiguna, T., Cahyarini, S.Y. Assessing the Trophic State and Nutrient Dynamics of Ancient Lake Poso in Central Sulawesi, Indonesia: Implications for Past Productivity and Climate Variability. Oral presentation at the 2023 AGU Fall Meeting, 11-15.12.2023, San Francisco USA.

[27] de Souza, G.F., Rickli, J., Du, J., **Janssen, D.J.** Rayleigh? Maybe. What Controls Marine δ^{53}Cr Systematics? Oral presentation at the 2023 Goldschmidt Conference, Lyon, France, 09-14.07.2023.

[26] Fourquez, M., **Janssen, D.J.**, Conway, T.M., Cabanes, D., Ellwood, M.J., Sieber, M., Trimborn, S., Hassler, C. Extreme variability of iron bioavailability in the Southern Ocean. Oral presentation at the 2023 Goldschmidt Conference, Lyon, France, 09-14.07.2023.

[25] Gilliard, D., Jaccard, S.L., **Janssen, D.J**., Schuback, N. Variability in seawater Cr concentration and stable isotope composition along Atlantic Meridional Transect 29 (AMT29). Poster presentation at the 2023 Goldschmidt Conference, Lyon, France, 09-14.07.2023.

[24] **Janssen, D.J.**, Wille, M., Damanik, A., Vogel, H**.** What do Cr distributions in anoxic waters tell us about the δ^{53}Cr paleoredox proxy? Oral presentation at the 2023 Goldschmidt Conference, Lyon, France, 09-14.07.2023.

[23] **Janssen, D.J.**, Rickli, J., Wille, M., Hassler, C.S., Vogel, H., Jaccard, S.L. Chromium cycling in euxinic basins: Implications for the δ^{53}Cr paleoredox proxy from modern systems. Oral presentation at the 2022 Ocean Sciences virtual meeting, 24.02 to 04.03.2022.

[22] Horner, T., Little, S., Conway, T., Farmer, J., **Janssen, D**. Putting productivity proxies to the test with GEOTRACES data. Oral presentation at the 2021 AGU Fall Meeting, 13-17.12.2021, New Orleans USA.

[21] **Janssen, D.J.**, Rickli, J., Abbott, A.N., Ellwood, M.J., Nasemann, P., Gilliard, D., Twining, B.S., Ohnemus, D.C., Jaccard, S.L. Elucidating biogenic components of the δ^{53}Cr cycle in the modern ocean. Oral presentation at the 2021 Virtual Goldschmidt Conference, 04-09.07.2021.

[20] Pöppelmeier, F., **Janssen, D**., Jaccard, S., Stocker, T.F. Modeling the marine chromium cycle with an EMIC: Constraining global-scale processes. Oral presentation at the 2021 Virtual Goldschmidt Conference, 04-09.07.2021.

[19] **Janssen**, **D.J.**, Sieber, M., Ellwood, M., Conway, T., Barrett, P.M., Hassler, C., Jaccard, S. Significant Biological Uptake of Trace Metals in the Mertz Glacier Polynya, East Antarctica. Oral presentation at the 2020 Ocean Sciences Meeting, San Diego, Ca, USA, 17-21.02.2020.

[18] Cullen, T., Jackson, S., **Janssen, D.** The Distribution of Dissolved Cadmium and its Utility as a Water Mass Tracer in the Canadian Arctic Ocean. Presentation at the 2019 Goldschmidt Conference, Barcelona Spain, 19-23.08.2019.

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[16] Rickli, J., **Janssen, D.J**., Hassler, C., Ellwood, M.J., Jaccard, S.L. Chromium Biogeochemistry and Stable Isotope Distribution in the Southern Ocean. Oral presentation at the 2019 Goldschmidt Conference, Barcelona Spain, 19-23.08.2019.

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