

Publications

1. Revues internationales

Labat F. & **Usseglio-Polatera P.** 2023. A new bioassessment multimetric index (BECOME) and diagnostic tool (BECOME_d) for small standing waters. *Ecological Indicators*, 154, 110831. <https://doi.org/10.1016/j.ecolind.2023.110831>

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Beck M., Billoir E., Flourey M., **Usseglio-Polatera P.** & Danger M. 2023. A 34-year survey under phosphorous decline and warming: Consequences on stoichiometry and functional trait composition of freshwater macroinvertebrate communities. *Science of the Total Environment*, 858, 159786. <http://dx.doi.org/10.1016/j.scitotenv.2022.159786>

Venkatamaranan A., Faure-Giovagnoli P., Regan C., Heudre D., Figus C., **Usseglio-Polatera P.**, Pradalier C. & Laviale M. 2023. Usefulness of synthetic datasets for diatom automatic detection using a deep-learning approach. *Engineering Applications: Artificial Intelligence*, 117, 105594. <https://doi.org/10.1016/j.engappai.2022.105594>

Beck M., Billoir E., Felten V., Meyer A., **Usseglio-Polatera P.** & Danger M. 2022. Lessons from linking bio- and ecological traits to stoichiometric traits in stream macroinvertebrates. *Ecology and Evolution*, 12, e9605. <https://doi.org/10.1002/ece3.9605>

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Kengne Fotsing J., Foto Menbohan S., Meyer A., Leprêtre A. & **Usseglio-Polatera P.**, 2022. Relationships between physico-chemical parameters and taxonomic structure of benthic macroinvertebrate assemblages in streams of West Cameroon. *Water*, 14, 1490. <https://doi.org/10.3390/w14091490>

Kunz S., Kefford B.J., Schmidt-Kloiber A., Matthaei C.D., **Usseglio-Polatera P.**, Graf W., Poff N.L., Metzeling L., Hawkins C.P. & Schäfer R. 2022. Tackling inconsistencies among freshwater invertebrate trait databases: Harmonising across continents and aggregating taxonomic resolution. *Freshwater Biology*, 67, 275-291. <https://doi.org/10.1111/fwb.13840>

Beck M., Billoir E., Felten V., Meyer A., **Usseglio-Polatera P.** & Danger M. 2022. A database of West-European headwater macroinvertebrate stoichiometric traits. *Global Ecology & Biogeography*, 31 (1), 4-9. <https://doi.org/10.1111/geb.13413>

Meyer A., Alric B., Dézerald O., Billoir E., Coulaud R., Larras F., Mondy C.P. & **Usseglio-Polatera P.** 2022. Linking micropollutant modes of action to trait syndromes across freshwater diatom, macroinvertebrate and fish assemblages. *Water*, 14, 1184. <https://doi.org/10.3390/w14081184>

Jabiol J., Chauvet E., Guérold F., Bouquerel J., **Usseglio-Polatera P.**, Artigas J., Margoum C., Le Dréau M., Moreira A., Mazzella N. & Gouy V. 2022. The combination of chemical, structural, and functional indicators to evaluate the anthropogenic impacts on agricultural stream ecosystems. *Environmental Science and Pollution Research*, 29, 29296–29313. <https://doi.org/10.1007/s11356-021-16925-5>

Crabot* J., Mondy* C.P., **Usseglio-Polatera P.**, Bogan M.T., Fritz K.M., Greenwood M., Meyer E.I., Wood P.J. & Detry T. 2021. A global perspective on the functional responses of stream communities to flow intermittence. *Ecography*, 44, 1511-1523. <https://doi.org/10.1111/ecog.05697> (* co-premiers auteurs)

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