

2021 – Publications

1. ADNAN F.H., MOUSSET E., PONTVIANNE S., PONS M.N. (2021) Mineral cathodic electrodeposition and its kinetic modelling in thin-film microfluidic reactor during advanced electro-oxidation process, *Electrochimica Acta*, 387, 138487.
2. ADNAN F.H., PONS M.N., MOUSSET E. (2021) Mass transport evolution in microfluidic thin film electrochemical reactor: New correlations from millimetric to submillimetric interelectrodes distances. *Electrochemistry Communications*, 130, 107097.
3. ALLEN J., GROSS E.M., COURCOUL C., BOULETREAU S., COMPIN A., ELGER A., FERRIOL J., HILT S., JASSEY V.E.J., LAVIALE M., POLST B.H., SCHMITT-JANSEN M., STIBOR H., VIJAYARAJ V., LEFLAIVE J. (2021) Disentangling the direct and indirect effects of agricultural runoff on freshwater ecosystems subject to global warming: a microcosm study. *Water Research*, 190, 116713.
4. BECK M., MONDY C. P., DANGER M., BILLOIR E., USSEGLIO-POLATERA P. (2021) Extending the growth rate hypothesis to species development: Can stoichiometric traits help to explain the composition of macroinvertebrate communities? *OIKOS*, 130 (6), 879-892.
5. BERTRAND I., CHALLANT J., JEULIN H., HARTARD C., MATHIEU L., LOPEZ S., SCHVOERER E., COURTOIS S., GANTZER C. (2021) Epidemiological surveillance of SARS-CoV-2 by genome quantification in wastewater applied to a city in the northeast of France: Comparison of ultrafiltration- and protein precipitation-based methods, *International Journal of Hygiene and Environmental Health*, 233, 113692.
6. CHASSAING M., BASTIN G., ROBIN M., MAJOU D., BELLIOU G., DE ROUGEMONT A., BOUDAUD N., GANTZER C. (2021) Free chlorine and peroxyxynitrite alter the capsid structure of human norovirus GII.4 and its capacity to bind histo-blood group antigens. *Frontiers in Microbiology*, 12, 662764.
7. KWON T., SHIBATA H., KEPFER-ROJAS S., SCHMIDT I.K., LARSEN K.S., BEIER C., BERG B., VERHEYEN K., LAMARQUE J.F., HAGEDORN F., EISENHAEUER N., DJUKIC I. et al. (2021) Effects of climate and atmospheric nitrogen deposition on early to mid-term stage litter decomposition across biomes. *Front. For. Glob. Change*, 4, 678480.
8. MARTÍNEZ-CARRERAS N., OGORZALY L., WALCZAK C., MERLIN C. MONTARGES-PELLETIER E., GANTZER C., IFFLY J.F., CAUCHIE H.M., HISSLER C. (2021) F-Specific RNA bacteriophage transport in stream water: hydro-meteorological controls and association with suspended solids. *Water*, 13, 2250.
9. ROMAN V.L., MERLIN C., BARON S., LARVOR E., LE DEVENDEC L., VIRTA M. P. J., BELLANGER X., (2021) Abundance and environmental host range of the SXT/R391 ICEs in aquatic environmental communities, *Environmental Pollution*, 288, 117673.
10. ROMAN V. L., MERLIN C., VIRTA M. P. J., BELLANGER X. (2021) EpicPCR 2.0: Technical and methodological improvement of a cutting-edge single-cell genomic approach, *Microorganisms*, 9(8), 1649.
11. SERRA-COMPTÉ A., GONZÁLEZ S., ARNALDOS M., BERLENDIS S., COURTOIS S., LORET J-F, SCHLOSSER O., YÁÑEZ A. M., SORIA-SORIA, FITTIPALDI M., SAUCEDO G., PINAR-MÉNDEZ A., PARAIRA M., GALOFRÉ B., LEMA J. M., BALBOA S., MAURICIO-IGLESIAS M., BOSCH A., PINTÓ R. M., BERTRAND I., GANTZER C., MONTERO C., LITRICO X. (2021) Elimination of SARS-CoV-2 along wastewater and sludge treatment processes. *Water Research*, 202, 117435.
12. VARBANOV M., BERTRAND I., PHILIPPOT S., RETOURNEY C., GARDETTE M., HARTARD C., JEULIN H., DUVAL R.E., LORET J.-F., SCHVOERER E., GANTZER C. (2021) Somatic coliphages are conservative indicators of SARS-CoV-2 inactivation during heat and alkaline pH treatments, *Science of The Total Environment*, 797, 149112.
13. WURTZER S., MARECHAL V., BERTRAND I., BONI M., LE GUYADER S., MOULIN L., MADAY Y., GANTZER C., MOUCHEL J.-M. (2021) Viral infectious diseases seen through wastewater. *Virologie*, 25 (1), E1-E4.