

2016 – 20 publications

1. ANDREÏ J., PAIN-DEVIN S., FELTEN V., DEVIN S., GIAMBÉRINI L., MEHENNAOUI K., CAMBIER S., GUTLEB A.-C., GUÉROLD F. Silver nanoparticles impact the functional role of *Gammarus roeseli* (Crustacea Amphipoda). *Environmental Pollution*, 208: 608-618.
2. ARCE-FUNCK J., CRENIER C., DANGER M., COSSU-LEGUILLE C., GUÉROLD F., FELTEN V. Stoichiometric constraints modulate impacts of silver contamination on stream detritivores: an experimental test with *Gammarus fossarum*. *Freshwater biology*, 61: 2075-2089.
3. BEDEL L., POSZWA A., VAN DER HEIJDEN G., LEGOUT A., AQUILINA L., RANGER J. Unexpected calcium and magnesium sources in low-fertility forest soils identified by strontium isotopes (Lorraine plateau, eastern France). *Geoderma*, 264: 103–116.
4. BERNARD P.-Y., BENOÎT M., ROGER-ESTRADE J., PLANTUREUX S. Using biophysical models to manage nitrogen pollution from agricultural sources: Utopic or realistic approach for non-scientist users ? Case study of drinking water catchment area in Lorraine, France. *Journal of Environmental Management*, 183: 260-274.
5. BERTRAND C., DEVIN S., MOUNEYRAC C., GIAMBERINI L. Eco-physiological responses to salinity changes across the freshwater-marine continuum on two euryhaline bivalves: *Corbicula fluminea* and *Scrobicularia plana*. *Ecological Indicators*, sous presse.
6. BERTRAND C., GIAMBERINI L., DEVIN S., POIRIER L., VERGNOUX-ZALOUK A., LABILLE J., PERREIN-ETTAJANI H., PAGNOUT C., CHATEL A., MOUNEYRAC C. Influence of salinity on fate and behavior of silver standardized nanomaterial and toxicity effects in the estuarine bivalve *Scrobicularia plana*. *Environmental Toxicology and Chemistry*, 35: 2550–2561.
7. BOLOU-BI B.E., DAMBRINE E., ANGELI N., POLLIER B., NYS C., GUÉROLD F., LEGOUT A. Magnesium Isotope Variations to Trace Liming Input to Terrestrial Ecosystems: A Case Study in the Vosges Mountains. *Journal of Environmental Quality*, 45: 276-284.
8. FIORENTINO A., RIZZO L., GUILLOTEAU H., BELLANGER X., MERLIN C. Comparing TiO₂ photocatalysis and UV-C radiation for inactivation and mutant formation of *Salmonella typhimurium* TA102. *Environmental Science and Pollution Research*, 24: 1871-1879.
9. GAILLARD J., THOMAS M., IURETIG A., PALLEZ C., FEIDT C., DAUCHY X., BANAS D. Barrage fishponds: Reduction of pesticide concentration peaks and associated risk of adverse ecological effects in headwater streams. *Journal of Environmental Management*, 169: 261-271.
10. GAILLARD J., THOMAS M., LAZARTIGUES A., BONNEFILLE B., PALLEZ C., DAUCHY X., FEIDT C., BANAS D. Potential of barrage fish ponds for the mitigation of pesticide pollution in streams. *Environ. Environmental Science and Pollution Research*, 23: 23-35.
11. GARAUD M., AUFFAN M., DEVIN S., FELTEN V., PAGNOUT C., PAIN-DEVIN S., RODIUS F., SOHM B., GIAMBERINI L. Long-term fate and integrated assessment of ceria nanoparticle impacts on the freshwater bivalve *Dreissena polymorpha*: a mesocosm approach. *Nanotoxicology*, 10: 935-944.
12. GATICA J., TRIPATHI V., GREEN S.-J., MANAIA C.-M., BERENDONK T., CACACE D., MERLIN C., KREUZINGER N., SCHWARTZ T., FATTA-KASSINOS D., RIZZO L., SCHWERMER C.-U., GARELICK H., JURKEVITCH E., CYTRYN E. High throughput analysis of integron gene cassettes in wastewater environments. *Environmental Science and Technology*, 50: 11825-11836.

13. KATIPOGLU-YAZAN T., MERLIN C., PONS M.-N., UBAY-COKGOR E., ORHON D. Chronic impact of sulfamethoxazole on the metabolic activity and composition of enriched nitrifying microbial culture. *Water Research*, 100: 546-555.
14. LEGOUT A., VAN DER HEIJDEN G., JAFFRAIN J., BOUDOT JP., RANGER J. Tree species effects on solution chemistry and major element fluxes: A case study in the Morvan (Breuil, France). *Forest Ecology and Management*, 378: 244-258.
15. LE MEUR M., MONTARGES-PELLETIER E., BAUER A., GLEY R., MIGOT S., BARRES O., DELUS C., VILLIERAS, F. Characterization of suspended particulate matter in the Moselle River (Lorraine, France): evolution along the course of the river and in different hydrologic regimes. *Journal of Soils and Sediments*, 16: 1625-1642.
16. MADEC J.Y., HAENNI M., PONSIN C., KIEFFER N., RION E., GASSILLOUD B. ST48 Escherichia coli carrying the blaCTX-M-1 IncI1/ST3 plasmid in drinking water, France. *Antimicrobial Agents and Chemotherapy*, 60: 6430-6432.
17. MOUSSOH A.F., BIGET A., LEMAITRE C., PONS M.N., LECLERC J.P. Influence of the turbulence model choice on the simulation of active substance dispersion for the treatment of aquaculture pool invaded by algae. *Desalination and Water Treatment*, 58: 19-34.
18. NUTTENS A., CHATELLIER S., DEVIN S., GUIGNARD C., LENOUVEL A., GROSS E.-M. Does nitrate co-pollution affect biological responses of an aquatic plant to two common herbicides? *Aquatic Toxicology*, 177: 355-364.
19. POTET M., DEVIN S., ROUSSELLE P., PAIN-DEVIN S., GIAMBERINI L. Integrated multi-biomarker responses in two dreissenid species following metallic and thermal cross-stress. *Environmental Pollution*, 218: 39-49.
20. VALLEE R., DOUSSET S., BILLET D. Influence of substrate water saturation on pesticide dissipation in constructed wetlands. *Environmental Science and Pollution Research*, 23: 109-119.