

Liste complète des articles scientifiques en anglais, articles techniques en français, et rapports techniques et scientifiques

Articles scientifiques en anglais (ACL)

2021

Bégorre C., A. Dabrin, A. Morereau, H. Lepage, B. Mourier, M. Masson, F. Eyrolle, M. Coquery – 2021. Relevance of using the non-reactive geochemical signature in sediment core to estimate historical tributary contributions. *Journal of Environmental Management* 292, 112775. <https://doi.org/10.1016/j.jenvman.2021.112775>

Cossa D., A Mucci, S. Guédron, M. Coquery, O. Radakovitch, R. Escoube, S. Campillo, S. Heussner – 2021. Mercury accumulation in the sediment of the Western Mediterranean abyssal plain: A reliable archive of the late Holocene. *Geochimica et Cosmochimica Acta*, 309, 1–15, <https://doi.org/10.1016/j.gca.2021.06.014>

Dabrin A., Bégorre C., Bretier M., Dugué V., Masson M., Le Bescond C., Le Coz J., Coquery M. – 2021. Reactivity of particulate element concentrations: apportionment assessment of suspended particulate matter sources in the Upper Rhône River, France. *J. Soils & Sediment.* 21, 1256–1274, [DOI: 10.1007/s11368-020-02856-0](https://doi.org/10.1007/s11368-020-02856-0)

Bride E, Heinisch S, Bonnefille B, Guillemain C, Margoum C. – 2021. Suspect screening of environmental contaminants by UHPLC-HRMS and transposable Quantitative Structure-Retention Relationship modelling. *J. Hazardous Materials*, 409, 124652, [DOI: 10.1016/j.jhazmat.2020.124652](https://doi.org/10.1016/j.jhazmat.2020.124652)

Diamond, J. S., Bernal, S., Boukra, A., Cohen, M. J., Lewis, D., Masson, M., (...), Pinay, G. - 2021. Stream network variation in dissolved oxygen: Metabolism proxies and biogeochemical controls. *Ecological Indicators*, 131, 108233. <https://hal.archives-ouvertes.fr/hal-03406983>

Gestin, O., Lacoue-Labarthe, T., Coquery, M., Delorme, N., Garnerot, L., Dherret, L., Ciccia, T., Geffard, O., Lopes, C. – 2021. One and multi-compartments toxicokinetic modeling to understand metals' organotropism and fate in Gammarus fossarum. *Environment International*, 156, 106625, [DOI: 10.1016/j.envint.2021.106625](https://doi.org/10.1016/j.envint.2021.106625)

Gouy, V., Liger, L., Ahrouch, S., Bonnneau, C., Carluer, N., Chaumot, A., Coquery, M., Dabrin, A., Margoum, C., Pesce, S. 2021. Ardières-Morcille in the Beaujolais, France: A research catchment dedicated to study of the transport and impacts of diffuse agricultural pollution in rivers. *Hydrological Processes*, 35: e14384. doi.org/10.1002/hyp.14384

Jabiol, J., Chauvet, E., Guerold, F., Usseglio-Polatera, P., Artigas, J., Margoum, C., Le Dreau, M., Mazzella, N., Gouy, V. – 2021. Water quality, communities and ecosystem process alterations in agricultural streams: implications for biomonitoring. *Environmental Science and Pollution Research*, doi:[10.1007/s11356-021-16925-5](https://doi.org/10.1007/s11356-021-16925-5)

Lecrivain N., Clement B., Dabrin A., Seigle-Ferrand J., Bouffard D., Naffrechoux E., Frossard V. – 2021. Water-level fluctuation enhances sediment and trace metal mobility in lake littoral. *Chemosphere*, 264. DOI: [10.1016/j.chemosphere.2020.128451](https://doi.org/10.1016/j.chemosphere.2020.128451)

Mathon B., Ferreol M., Coquery M., Choubert J.M., Chovelon J.M., Miège C. – 2021. Direct photodegradation of 36 organic micropollutants under simulated solar radiation: comparison with free-water surface constructed wetland and influence of chemical structure. *J Hazardous Materials*, 407, 124801, DOI: [10.1016/j.jhazmat.2020.124801](https://doi.org/10.1016/j.jhazmat.2020.124801)

Mathon B., M. Coquery, Z. Liu, Y. Penru, A. Guillon, M. Esperanza, C. Miège, J.-M. Choubert. – 2021. Ozonation of 47 organic micropollutants in secondary treated municipal effluents: Direct and indirect kinetic reaction rates and modelling. *Chemosphere*, 262, 127969, DOI: [10.1016/j.chemosphere.2020.127969](https://doi.org/10.1016/j.chemosphere.2020.127969)

Morvannou A., M. Masson, M. Gautier, S. Bisone, L. Richard, C. Boutin, N. Forquet – 2021. Fate of phosphorus from treated wastewater in soil-based constructed wetlands. *Science of the Total Environment*, 151589. <https://doi.org/10.1016/j.scitotenv.2021.151589>

Schulze, B., van Herwerden, D., Allan, I., Bijlsma, L., Etxebarria, N., Hansen, M., Merel, S., Vrana, B., Aalizadeh, R., Bajema, B., Dubocq, F., Coppola, G., Fildier, A., Fialová, P., Frøkjær, E., Grabic, R., Gago-Ferrero, P., Gravert, T., Hollender, J., Huynh, N., Jacobs, G., Jonkers, T., Kaserzon, S., Lamoree, M., Le Roux, J., Mairinger, T., Margoum, C., Mascolo, G., Mebold, E., Menger, F., Miège, C., Meijer, J., Moilleron, R., Murgolo, S., Peruzzo, M., Pijnappels, M., Reid, M., Roscioli, C., Soulier, C., Valsecchi, S., Thomaidis, N., Vulliet, E., Young, R., Samanipour, S. – 2021. Inter-laboratory mass spectrometry dataset based on passive sampling of drinking water for non-target analysis. *Scientific Data* 8, 223. <https://doi.org/10.1038/s41597-021-01002-w>

Tardy V, Bonnneau C, Bouchez A, Miège C, Masson M, Jeannin P, Pesce S - 2021. A pilot experiment to assess the efficiency of pharmaceutical plant wastewater treatment and the decreasing effluent toxicity to periphytic biofilms. *J. Hazardous Material*, 411, 125121. <https://doi.org/10.1007/s11356-019-07331-z>

2020

Bonnneau C., Artigas J., Chaumet B., Dabrin A., Fabure J., Ferrari B.J.D., Lebrun J.D., Margoum C., Mazzella N., Miège C., Morin S., Uher E., Babut M., Pesce S. – 2020. Role of biofilms in contaminant bioaccumulation and trophic transfer in aquatic ecosystems: current state of knowledge and future challenges. *Rev. Environ. Contam. Toxicol.* 253, 115-153, https://doi.org/10.1007/398_2019_39

Bretier M., Dabrin A., Billon G., Mathon B., Miège C., Coquery M. – 2020. To what extent can the biogeochemical cycling of mercury modulate the measurement of dissolved mercury in surface freshwaters by passive sampling? *Chemosphere*, 248, 126006, DOI: [10.1016/j.chemosphere.2020.126006](https://doi.org/10.1016/j.chemosphere.2020.126006)

Delile H., Masson M., Miège C., Le Coz J., Poulier G., Le Bescond C., Radakovitch O., Coquery M. – 2020. Hydro-climatic drivers of land-based organic and inorganic particulate micropollutant fluxes: the regime of the largest river water inflow of the Mediterranean Sea. *Water Research*, 185, 116067. [DOI:10.1016/j.watres.2020.116](https://doi.org/10.1016/j.watres.2020.116)

Dendievel, A.M., Mourier, B., Dabrin, A., Delile, H., Coynel, A., Gosset, A., Liber, J., Berger, J.F., Bedell, J.F. – 2020. Metal pollution trajectories and mixture risk assessed by combining dated cores and subsurface sediments along a major European river (Rhône River, France). *Environment International*, 144. [DOI: 10.1016/j.envint.2020.106032](https://doi.org/10.1016/j.envint.2020.106032)

Dendievel, A.M., Mourier, B., Dabrin, A., Barra, A., Begorre, C., Delile, H., Hammada, M., Lardaix, G., Berger, J.F. – 2020. Dataset of natural metal background levels inferred from pre-industrial palaeochannel sediment cores along the Rhône River (France). *Data in Brief*, 32. [DOI: 10.1016/j.dib.2020.106256](https://doi.org/10.1016/j.dib.2020.106256)

Lepage H., Launay M., Le Coz J., Angot H., Miège C., Gairoard S., Radakovitch O., Coquery M. – 2020. Impact of dam flushing operations on sediment dynamics and quality in the upper Rhône River, France. *Journal of Environmental Management*, 255, 109886, [DOI: 10.1016/j.jenvman.2019.109886](https://doi.org/10.1016/j.jenvman.2019.109886)

Montecinos M., Coquery, M., Alsina M.A., Bretier M., Gaillard J.F., Dabrin A., Pastén, P. – 2020. Partitioning of copper at the confluences of Andean rivers. *Chemosphere*, 259, 127318, [DOI: 10.1016/j.chemosphere.2020.127318](https://doi.org/10.1016/j.chemosphere.2020.127318)

Pesce S., Campiche S., Casado-Martinez C., Ahmed A.M., Bonnneau C., Dabrin A., Lyautey E., Ferrari B.J.D. – 2020. Towards simple tools to assess functional effects of contaminants on natural microbial and invertebrate sediment communities. *Environmental Science and Pollution Research*, 27/6, 6680-6689, [DOI: 10.1007/s11356-019-07331-z](https://doi.org/10.1007/s11356-019-07331-z)

Salvador, A., Carrere, R., Ayciriex, S., Margoum, C., Leblanc, Y., Lemoine, J. – 2020. Scout-multiple reaction monitoring: A liquid chromatography tandem mass spectrometry approach for multi-residue pesticide analysis without time scheduling. *Journal of Chromatography A*, 1621, [DOI: 10.1016/j.chroma.2020.461046](https://doi.org/10.1016/j.chroma.2020.461046)

Villarin M.C., Merel S. – 2020. Paradigm shifts and current challenges in wastewater management. *Journal of Hazardous Materials*, 390, 122139, [DOI: 10.1016/j.jhazmat.2020.122139](https://doi.org/10.1016/j.jhazmat.2020.122139)

2019

Bretier M., Dabrin A., Bessueille-Barbier F., Coquery M. – 2019. The impact of dam flushing event on dissolved trace elements concentrations: Coupling integrative passive sampling and discrete monitoring, *Science of the Total Environment*, 656, 433-446, [DOI: 10.1016/j.scitotenv.2018.11.303](https://doi.org/10.1016/j.scitotenv.2018.11.303)

Launay M., Dugué V., Faure J.-B., Coquery M., Camenen B., Le Coz J. – 2019. Numerical modelling of the suspended particulate matter dynamics in a regulated river network, *Science of the Total Environment*, 665, 591-605, [DOI: 10.1016/j.scitotenv.2019.02.015](https://doi.org/10.1016/j.scitotenv.2019.02.015)

Poulier G., Launay M., Le Bescond C., Thollet F., Coquery M., Le Coz J. – 2019. Combining flux monitoring and estimation to establish annual budgets of suspended particulate matter

and associated pollutants in the Rhône River from Lake Geneva to the Mediterranean Sea, *Science of the Total Environment*, 658, 457–473, [DOI: 10.1016/j.scitotenv.2018.12.075](https://doi.org/10.1016/j.scitotenv.2018.12.075)

Mathon, B., Coquery, M., Miege, C., Vandycke, A., Choubert, J.M. – 2019. Influence of water depth and season on the photodegradation of micropollutants in a free-water surface constructed wetland receiving treated wastewater. *Chemosphere*, 235, 260-270, DOI : <https://doi.org/10.1016/j.chemosphere.2019.06.140>

Gentes, S., Coquery, M., Vigouroux, R., Hanquiez, V., Allard, L., Maury Brachet, R. – 2019. Application of the European Water Framework Directive: Identification of reference sites and bioindicator fish species for mercury in tropical freshwater ecosystems (French Guiana). *Ecological Indicators*, vol. 106, 105468, DOI: [10.1016/j.ecolind.2019.105468](https://doi.org/10.1016/j.ecolind.2019.105468)

Lepage, H., Masson, M., Delanghe, D., Le Bescond, C. – 2019. Grain size analyzers: results of an intercomparison study. *SN Applied Sciences*, 1:1100, [DOI: 10.1007/s42452-019-1133-9](https://doi.org/10.1007/s42452-019-1133-9)

Becouze-Lareure C., A. Dembele, M. Coquery, C. Cren-Olive, J.-L. Bertrand-Krajewski – 2019. Assessment of 34 dissolved and particulate organic and metallic micropollutants discharged at the outlet of two contrasted urban catchments. *Science of the Total Environment*. 651: 1810–1818, [DOI: 10.1016/j.scitotenv.2018.10.042](https://doi.org/10.1016/j.scitotenv.2018.10.042)

Vignati D.A.L., Ferrari B.J.D., Roulier J.-L., Coquery M., Szalinska E., Bobrowski A., Czaplicka, A., Kownacki A., Dominik J. – 2019. Chromium bioavailability in aquatic systems impacted by tannery wastewaters. Part 1: Understanding chromium accumulation by indigenous chironomids. *Science of the Total Environment*. 653: 401-408, [DOI: 10.1016/j.scitotenv.2018.10.259](https://doi.org/10.1016/j.scitotenv.2018.10.259)

Ferrari B.J.D., Vignati D.A.L., Roulier J.-L., Coquery M., Szalinska E., Bobrowski A., Czaplicka, A., Dominik J. – 2019. Chromium bioavailability in aquatic systems impacted by tannery wastewaters. Part 2: New insights from laboratory and in situ testing with Chironomus riparius Meigen (Diptera, Chironomidae). *Science of the Total Environment*. 653: 1–9, [DOI: 10.1016/j.scitotenv.2018.10.258](https://doi.org/10.1016/j.scitotenv.2018.10.258)

2018

Masson M., Angot H., Le Bescond C., Launay M., Dabrin A., Miege C., Le Coz J., Coquery, M. - 2018. Sampling of suspended particulate matter using particle traps in the Rhône River: Relevance and representativeness for the monitoring of contaminants. *Science of the Total Environment*, 637-638, 538-549, [DOI: https://doi.org/10.1016/j.scitotenv.2018.04.343](https://doi.org/10.1016/j.scitotenv.2018.04.343)

Martin A., C. Margoum, A. Jolivet, A. Assoumani, B. El Moujahd, J. Randon, M Coquery – 2018. Calibration of silicone rubber rods as passive samplers for pesticides at two different flow velocities: modelling of sampling rates under water boundary layer and polymer control, *Environmental Toxicology and Chemistry*, 37, 4, 1208–1218, [DOI: 10.1002/etc.4050](https://doi.org/10.1002/etc.4050)

Morin NAO, N Mazzella, HPH Arp, J Randon, J Camilleri, L Wiest, M Coquery, C Miège – 2018. Kinetic accumulation processes and models for 43 micropollutants in “pharmaceutical” POCIS, *Science of The Total Environment*, 615, 197-207, ISSN 0048-9697, doi.org/10.1016/j.scitotenv.2017.08.311

Pesce, S., Perceval, O., Bonnneau, C., Casado Martinez, C., Dabrin, A., Lyautey, E., Naffrechoux, E., Ferrari, B.J.D. - 2018. Looking at biological community level to improve

ecotoxicological assessment of freshwater sediments: Report on a First French-Swiss Workshop. *Environmental Science and Pollution Research*, vol. 25, n° 1, p. 970-974.
<https://hal.archives-ouvertes.fr/hal-01883370>

Pesce S., Lambert A.-S., Morin S., Foulquier A., Coquery M., Dabrin A. – 2018. Experimental warming differentially influences the vulnerability of phototrophic and heterotrophic periphytic communities to copper toxicity, *Frontiers in Microbiology*, 9, 1424, DOI: [10.3389/fmicb.2018.01424](https://doi.org/10.3389/fmicb.2018.01424)

Rossi, F., Pesce, S., Mallet, C., Margoum, C., Chaumot, A., Masson, M., Artigas, J. – 2018. Interactive effects of pesticides and nutrients on microbial communities responsible of litter decomposition in streams. *Frontiers in Microbiology*, 9, 2437.
<https://doi.org/10.3389/fmicb.2018.02437>

Ahmed, A.M., Lyautey, E., Bonnneau, C., Dabrin, A., Pesce, S. – 2018. Environmental concentrations of copper, alone or in mixture with arsenic, can impact river sediment microbial community structure and functions. *Frontiers in Microbiology*, 9, 1852.
<https://doi.org/10.3389/fmicb.2018.01852>

Papias S., Masson M., Pelletant S., Prost-Boucle S., Boutin C. – 2018. *In situ* continuous monitoring of nitrogen with ion-selective electrodes in a constructed wetland receiving treated wastewater: an operating protocol to obtain reliable data. *Water Science and Technology*, 77.6, 1706-1713. <https://hal.archives-ouvertes.fr/hal-01884674>

2017

Arambourou H, Queau H, Dabrin A, Neuzeret D, Chaumot A. Use of Gammarus fossarum (Amphipoda) embryo for toxicity testing: a case study with Cadmium. *Environmental Toxicology and Chemistry*. 2017;9999(9999):1-8. doi:<http://dx.doi.org/10.1002/etc.3779>.

Lambert, A.S., Dabrin, A., Foulquier A., Morin, S., Rosy C., Coquery, M., Pesce, S. Influence of temperature in pollution-induced community tolerance approaches used to assess effects of copper on freshwater phototrophic periphyton. *Science of the Total Environment*, 2017;607-608, 1018-1025, DOI: [10.1016/j.scitotenv.2017.07.035](https://doi.org/10.1016/j.scitotenv.2017.07.035)

Morin S, Lambert AS, Planes Rodriguez E, Dabrin A, Coquery M, Pesce S. Changes in copper toxicity towards diatom communities with experimental warming. *Journal of Hazardous Materials*. 2017;334:223-32. doi:<http://dx.doi.org/10.1016/j.jhazmat.2017.04.016>.

Mathon B, Coquery M, Miege C, Penru Y, Choubert JM. Removal efficiencies and kinetic rate constants of xenobiotics by ozonation in tertiary treatment. *Water Science and Technology*. 2017;75(12):2737-46. doi:<http://dx.doi.org/10.2166/wst.2017.114>.

Choubert JM, Martin Ruel S, Miege C, Coquery M. Rethinking micropollutant removal assessment methods for wastewater treatment plants; how to get more robust data? *Water Science and Technology*. 2017;75(12):2964-72. doi:<http://dx.doi.org/10.2166/wst.2017.181>.

Bisone S, Gautier M, Masson M, Forquet N. Influence of loading rate and modes of infiltration of treated wastewater in soil-based constructed wetland. *Environmental Technology*. 2017;38:163-74. doi:<http://dx.doi.org/10.1080/09593330.2016.1185165>.

Assoumani A, Margoum C, Lombard A, Guillemain C, Coquery M. How do PDMS-coated stir bars used as passive samplers integrate concentration peaks of pesticides in freshwater? *Environmental Science and Pollution Research*. 2017;24(8):6844-52. doi:<http://dx.doi.org/10.1007/s11356-016-6715-0>.

Abarca M, Guerra P, Arce G, Montecinos M, Escauriaza C, Coquery M, Pasten P. Response of suspended sediment particle size distributions to changes in water chemistry at an Andean mountain stream confluence receiving arsenic rich acid drainage. *Hydrological Processes*. 2017;31:296-307. doi:<http://dx.doi.org/10.1002/hyp.10995>.

Arce G, Montecinos M, Guerra P, Escauriaza C, Coquery M, Pastén P. Enhancement of particle aggregation in the presence of organic matter during neutralization of acid drainage in a stream confluence and its effect on arsenic immobilization. *Chemosphere*, 2017; 180, 574-583, DOI: [10.1016/j.chemosphere.2017.03.107](https://doi.org/10.1016/j.chemosphere.2017.03.107)

Ciliberti A., Chaumot A., Recoura Massaquant R., Chandresris A., François A., Coquery M., Ferréol M., Geffard O. Caged *Gammarus* as biomonitoring identifying thresholds of toxic metal bioavailability that affect gammarid densities at the French national scale. *Water Research*, 2017; 118, 131-140, DOI: [10.1016/j.watres.2017.04.031](https://doi.org/10.1016/j.watres.2017.04.031)

2016

Vrana B, Smedes F, Prokes R, Loos R, Mazzella N, Miege C, Budzinski H, Vermeirssen E, Ocelka T, Gravell A, Kaserzon S. An interlaboratory study on passive sampling of emerging water pollutants. *Trac-Trends in Analytical Chemistry*. 2016; 76:153-65. doi:<http://dx.doi.org/10.1016/j.trac.2015.10.013>.

Urien N, Lebrun JD, Fechner LC, Uher E, Francois A, Queau H, Coquery M, Chaumot A, Geffard O. Environmental relevance of laboratory-derived kinetic models to predict trace metal bioaccumulation in gammarids: Field experimentation at a large spatial scale (France). *Water Research*. 2016; 95:330-9. doi:<http://dx.doi.org/10.1016/j.watres.2016.03.023>.

Pesce S, Zoghlami O, Margoum C, Artigas J, Chaumot A, Foulquier A. Combined effects of drought and the fungicide tebuconazole on aquatic leaf litter decomposition. *Aquatic Toxicology*. 2016; 173:120-31. doi:<http://dx.doi.org/10.1016/j.aquatox.2016.01.012>.

Pesce S, Margoum C, Foulquier A. Pollution-induced community tolerance for in situ assessment of recovery in river microbial communities following the ban of the herbicide diuron. *Agriculture Ecosystems & Environment*. 2016; 173:120-31. doi:<http://dx.doi.org/10.1016/j.agee.2016.01.009>.

Mathon B, Choubert JM, Miège C, Coquery M. A review of the photodegradability and transformation products of 13 pharmaceuticals and pesticides relevant to sewage polishing treatment. *Science of the Total Environment*. 2016; 551-552:712-24. doi:<http://dx.doi.org/10.1016/j.scitotenv.2016.02.009>.

Martin A, Margoum C, Randon J, Coquery M. Silicone rubber selection for passive sampling of pesticides in water. *Talanta*. 2016; 160:306-13. doi:<http://dx.doi.org/10.1016/j.talanta.2016.07.019>.

Martin A, Margoum C, Coquery M, Randon J. Combination of sorption properties of polydimethylsiloxane and solid-phase extraction sorbents in a single composite material for

passive sampling of polar and apolar pesticides in water. *Journal of Separation Science*. 2016; 39(20):3990-7. doi:<http://dx.doi.org/10.1002/jssc.201600502>.

Lambert AS, Dabrin A, Morin S, Gahou J, Foulquier A, Coquery M, Pesce S. Temperature modulates phototrophic periphyton response to chronic copper exposure. *Environmental Pollution*. 2016; 208:821-9, DOI: [10.1016/j.envpol.2015.11.004](https://doi.org/10.1016/j.envpol.2015.11.004)

Dabrin A, Ghested JP, Uher E, Gonzalez JL, Allan IJ, Schintu M, Montero N, Balaam J, Peinerud E, Miege C, Coquery M. Metal measurement in aquatic environments by passive sampling methods: Lessons learning from an in situ intercomparison exercise. *Environmental Pollution*. 2016; 208(part B):299-308. doi:<http://dx.doi.org/10.1016/j.envpol.2015.08.049>.

Carkovic AB, Calcagni MS, Vega AS, Coquery M, Moya PM, Bonilla CA, Pasten PA. Active and legacy mining in an arid urban environment: challenges and perspectives for Copiapó, Northern Chile. *Environmental Geochemistry and Health*. 2016; 38(4):1001-14. doi:<http://dx.doi.org/10.1007/s10653-016-9793-5>.

Brack W, Dulio V, Agerstrand M, Allan I, (et al...), Miege C, Munthe J, O Toole S, Posthuma L, Rudel H, Schafer RB, Sengl M, Smedes F, Van de Meent D, Van den Brink PJ, Van Gils J, Van Wezel AP, Vethaak AD, Vermeirssen E, Von der Ohe PC, Vrana B. Towards the review of the European Union Water Framework management of chemical contamination in European surface water resources. *Science of the Total Environment*. 2016; 576:720-37. doi:<http://dx.doi.org/10.1016/j.scitotenv.2016.10.104>.

Becouze Lareure C, Dembele A, Coquery M, Cren Olive C, Barillon B, Bertrand Krajewski JL. Source characterisation and loads of metals and pesticides in urban wet weather discharges. *Urban Water Journal*. 2016; 13(6):600-17. doi:<http://dx.doi.org/10.1080/1573062X.2015.1011670>.

2015

Vigneron A, Geffard O, Coquery M, Francois A, Queau H, Chaumot A. Evolution of cadmium tolerance and associated costs in a Gammarus fossarum population inhabiting a low-level contaminated stream. *Ecotoxicology*. 2015; 24(6):1239-49. doi:<http://dx.doi.org/10.1007/s10646-015-1491-z>.

Schymanski EL, Singer HP, Slobodnik J, (et al...), Guillon A, Noyon N, Leroy G, Bados P, Bogialli S, Stipanicev D, Rostkowski P, Hollender J. Non-target screening with high-resolution mass spectrometry: critical review using a collaborative trial on water analysis. *Analytical and Bioanalytical Chemistry*. 2015; 407(21):6237-55. doi:<http://dx.doi.org/10.1007/s00216-015-8681-7>.

Rabiet M, Coquery M, Carluer N, Gahou J, Gouy V. Transfer of metal(lloid)s in a small vineyard catchment: contribution of dissolved and particulate fractions in river for contrasted hydrological conditions. *Environmental Science and Pollution Research*. 2015; 22(23):19224-39. doi:<http://dx.doi.org/10.1007/s11356-015-5079-1>.

Pomiès M, Choubert JM, Wisniewski C, Miège C, Budzinski H, Coquery M. Lab-scale experimental strategy for determining micropollutant partition coefficient and biodegradation constants in activated sludge. *Environmental Science and Pollution Research*. 2015; 22(6):4383-95. doi:<http://dx.doi.org/10.1007/s11356-014-3646-5>.

Petitjean A, Forquet N, Choubert JM, Coquery M, Bouyer M, Boutin C. Land characterisation for soil-based constructed wetlands: Adapting investigation methods to design objectives. *Water Practice & Technology*. 2015; 10(4):660-8.
doi:<http://dx.doi.org/10.2166/wpt.2015.078>.

Perrette Y, Poulenard J, Protiere M, Fanget B, Lombard C, Miege C, Quiers M, Naffrechoux E, Pepin Donat B. Determining soil sources by organic matter EPR fingerprints in two modern speleothems. *Organic Geochemistry*. 2015; 88:59-68.
doi:<http://dx.doi.org/10.1016/j.orggeochem.2015.08.005>.

Miege C, Mazzella N, Allan I, Dulio V, Smedes F, Tixier C, Vermeirssen E, Brant J, O'Toole S, Budzinski H, Ghestem JP, Staub PF, Lardy Fontan S, Gonzalez JL, Coquery M, Vrana B. Position paper on passive sampling techniques for the monitoring of contaminants in the aquatic environment - Achievements to date and perspectives. *Trends in Environmental Analytical Chemistry*. 2015; 8:20-6. doi:<http://dx.doi.org/10.1016/j.teac.2015.07.001>.

Margoum C, Morin S, Mazzella N. Potential toxicity of pesticides in freshwater environments: passive sampling, exposure and impacts on biofilms: the PoToMAC project. *Environmental Science and Pollution Research*. 2015; 22(6):3985-7.

Mamy L, Patureau D, Barriuso E, Bedos C, Bessac F, Louchart X, Martin Laurent F, Miège C, Benoit P. Prediction of the fate of organic compounds in the environment from their molecular properties: A review. *Critical Reviews in Environmental Science and Technology*. 2015; 45(12):1277-377. doi:<http://dx.doi.org/10.1080/10643389.2014.955627>.

Launay M, Le Coz J, Camenen B, Walter C, Angot H, Dramais G, Faure JB, Coquery M. Calibrating pollutant dispersion in 1-D hydraulic models of river networks. *Journal of Hydro-Environment Research*. 2015; 9(1):120-32. doi:<http://dx.doi.org/10.1016/j.jher.2014.07.005>.

Lambert AS, Pesce S, Foulquier A, Gahou J, Coquery M, Dabrin A. Improved short-term toxicity test protocol to assess metal tolerance in phototrophic periphyton: Toward standardization of PICT approaches. *Environmental Science and Pollution Research*. 2015; 22(6):4037-45. doi:<http://dx.doi.org/10.1007/s11356-014-3505-4>.

Foulquier A, Morin S, Dabrin A, Margoum C, Mazzella N, Pesce S. Effects of mixtures of dissolved and particulate contaminants on phototrophic biofilms: new insights from a PICT approach combining toxicity tests with passive samplers and model substances. *Environmental Science and Pollution Research*. 2015; 22(6):4025-36.
doi:<http://dx.doi.org/10.1007/s11356-014-3289-6>.

Assoumani A, Coquery M, Liger L, Mazzella N, Margoum C. Field application of passive SBSE for the monitoring of pesticides in surface waters. *Environmental Science and Pollution Research*. 2015; 22(6):3997-4008. doi:<http://dx.doi.org/10.1007/s11356-014-3590-4>.

2014

Tahar A, Choubert JM, Miège C, Esperanza M, Le Menach K, Budzinski H, Wisniewski C, Coquery M. Removal of xenobiotics from effluent discharge by adsorption on zeolite and expanded clay: an alternative to activated carbon? *Environmental Science and Pollution Research*. 2014; 21(8):5660-8. doi:<http://dx.doi.org/10.1007/s11356-013-2439-6>.

Passeport E, Richard B, Chaumont C, Margoum C, Liger L, Gril JJ, Tournebize J. Dynamics and mitigation of six pesticides in a "Wet" forest buffer zone. *Environmental Science and Pollution Research*. 2014; 21(7):4883-94. doi:<http://dx.doi.org/10.1007/s11356-013-1724-8>.

Jacquet R, Miège C, Smedes F, Tixier C, Tronczynski J, Togola A, Berho C, Valor I, Llorca J, Barillon B, Marchand P, Coquery M. Comparison of five integrative samplers in laboratory for the monitoring of indicator and dioxin-like polychlorinated biphenyls in water. *Chemosphere*. 2014; 98:18-27. doi:<http://dx.doi.org/10.1016/j.chemosphere.2013.09.011>.

Gabet Giraud V, Miège C, Jacquet R, Coquery M. Impact of wastewater treatment plants on receiving surface waters and a tentative risk evaluation: the case of estrogens and beta blockers. *Environmental Science and Pollution Research*. 2014; 21(3):1708-22. doi:<http://dx.doi.org/10.1007/s11356-013-2037-7>.

Dabrin A, Schäfer J, Bertrand O, Masson M, Blanc G. Origin of suspended matter and sediment inferred from the residual metal fraction: Application to the Marennes Oleron Bay, France. *Continental Shelf Research*. 2014; 72:119-30. doi:<http://dx.doi.org/10.1016/j.csr.2013.07.008>.

Assoumani A, Margoum C, Guillemain C, Coquery M. Use of experimental designs for the optimization of stir bar sorptive extraction coupled to GC-MS/MS and comprehensive validation for the quantification of pesticides in freshwaters. *Analytical and Bioanalytical Chemistry*. 2014; 406(11):2559-70. doi:<http://dx.doi.org/10.1007/s00216-014-7638-6>.

Assoumani A, Margoum C, Chataing S, Guillemain C, Coquery M. Use of passive stir bar sorptive extraction as a simple integrative sampling technique of pesticides in freshwaters: determination of sampling rates and lag-phases. *Journal of Chromatography A*. 2014; 1333:1-8. doi:<http://dx.doi.org/10.1016/j.chroma.2014.01.063>.

2013

Tahar A, Choubert JM, Coquery M. Xenobiotics removal by adsorption in the context of tertiary treatment: a mini review. *Environmental Science and Pollution Research*. 2013; 20:5085-95. doi:<http://dx.doi.org/10.1007/s11356-013-1754-2>.

Pomiès M, Choubert JM, Wisniewski C, Coquery M. Modelling of micropollutant removal in biological wastewater treatments: A review. *Science of the Total Environment*. 2013; 443:733-48. doi:<http://dx.doi.org/10.1016/j.scitotenv.2012.11.037>.

Pesce S, Margoum C, Rouard N, Foulquier A, Martin Laurent F. Freshwater sediment pesticide biodegradation potential as an ecological indicator of microbial recovery following a decrease in chronic pesticide exposure: A case study with the herbicide diuron. *Ecological Indicators*. 2013; 29:18-25. doi:<http://dx.doi.org/10.1016/j.ecolind.2012.12.014>.

Morin N, Camilleri J, Cren Olive C, Coquery M, Miège C. Determination of uptake kinetics and sampling rates for 56 organic micropollutants with "pharmaceutical" POCIS. *Talanta*. 2013; 109:61-73. doi:<http://dx.doi.org/10.1016/j.talanta.2013.01.058>.

Margoum C, Guillemain C, Yang X, Coquery M. Stir bar sorptive extraction coupled to liquid chromatography-tandem mass spectrometry for the determination of pesticides in water samples: method validation and measurement uncertainty. *Talanta*. 2013; 116:1-7. doi:<http://dx.doi.org/10.1016/j.talanta.2013.04.066>.

Dabrin A, Roulier JL, Coquery M. Colloidal and truly dissolved metal(oid) fractionation in sediment pore waters using tangential flow filtration. *Applied Geochemistry*. 2013; 31:25-34.

Besse JP, Coquery M, Lopes C, Chaumot A, Budzinski H, Labadie P, Geffard O. Caged Gammarus fossarum (crustacea) as a robust tool for the characterization of bioavailable contamination levels in continental waters. Toward the determination of threshold values. *Water Research*. 2013; 47(2):650-60. doi:<http://dx.doi.org/10.1016/j.watres.2012.10.024>.

Assoumani A, Margoum M, Lassalle Y, Herbreteau B, Faure F, Coquery M, Randon J. Polydimethylsiloxane Rods for the Passive Sampling of Pesticides in Surface Waters. *Water*. 2013;5:1366-79. doi:<http://dx.doi.org/10.3390/w5031366>.

Assoumani A, Lissalde S, Margoum C, Mazzella N, Coquery M. In situ application of stir bar sorptive extraction as a passive sampling technique for the monitoring of agricultural pesticides in surface waters. *Science of the Total Environment*. 2013;463-464:829-35. doi:<http://dx.doi.org/10.1016/j.scitotenv.2013.06.025>.

2012

Morin S, Pesce S, Kim Tiam S, Libert X, Coquery M, Mazzella N. Use of Polar Organic Chemical Integrative Samplers to assess the effects of chronic pesticide exposure on biofilms. *Ecotoxicology*. 2012;21(5):1570-80. doi:<http://dx.doi.org/10.1007/s10646-012-0910-7>.

Morin S, Lambert AS, Artigas J, Coquery M, Pesce S. Diatom immigration drives biofilm recovery after chronic copper exposure. *Freshwater Biology*. 2012;57(8):1658-66. doi:<http://dx.doi.org/10.1111/j.1365-2427.2012.02827.x>.

Morin N, Miège C, Coquery M, Randon J. Chemical calibration, performance, validation and applications of the polar organic chemical integrative sampler (POCIS) in aquatic environments. *Trac-Trends in Analytical Chemistry*. 2012;36:144-75. doi:<http://dx.doi.org/10.1016/j.trac.2012.01.007>.

Miège C, Peretti A, Labadie P, Budzinski H, Le Bizec B, Vorkamp K, Tronczynski J, Persat H, Coquery M, Babut M. Occurrence of priority and emerging organic compounds in fishes from the Rhone River (France). *Analytical and Bioanalytical Chemistry*. 2012;404(9):2721-35. doi:<http://dx.doi.org/10.1007/s00216-012-6187-0>.

Miège C, Mazzella N, Schiavone S, Dabrin A, Berho C, Ghestem JP, Gonzalez C, Gonzalez JL, Lalere B, Lardy Fontan S, Lepot B, Munaron D, Tixier C, Togola A, Coquery M. An in situ intercomparison exercise on passive samplers for monitoring metals, polycyclic aromatic hydrocarbons and pesticides in surface waters. *Trac-Trends in Analytical Chemistry*. 2012;36:128-43. doi:<http://dx.doi.org/10.1016/j.trac.2012.01.009>.

Miège C, Budzinski H, Jacquet R, Soulier C, Pelte T, Coquery M. Polar organic chemical integrative sampler (POCIS): application for monitoring organic micropollutants in wastewater effluent and surface water. *Journal of Environmental Monitoring*. 2012;14(2):626-35. doi:<http://dx.doi.org/10.1039/C1EM10730E>.

Martin Ruel S, Choubert JM, Budzinski H, Miège C, Esperanza M, Coquery M. Occurrence and fate of relevant substances in wastewater treatment plants regarding Water Framework Directive and future legislations. *Water Science and Technology*. 2012;65(7):1179-89.

Lambert AS, Morin S, Artigas J, Volat B, Coquery M, Neyra M, Pesce S. Structural and functional recovery of microbial biofilms after a decrease in copper exposure: Influence of the presence of pristine communities. *Aquatic Toxicology*. 2012;109:118-26.
doi:<http://dx.doi.org/10.1016/j.aquatox.2011.12.006>.

Jacquet R, Miège C, Bados P, Schiavone S, Coquery M. Evaluating the polar organic chemical integrative sampler for the monitoring of beta-blockers and hormones in wastewater treatment plant effluents and receiving surface waters. *Environmental Toxicology and Chemistry*. 2012;31(2):279-88. doi:<http://dx.doi.org/10.1002/etc.737>.

Desmet M, Mourier B, Mahler B, Van Metre P, Roux G, Persat H, Lefèvre I, Peretti A, Chapron E, Simonneau A, Miège C, Babut M. Spatial and temporal trends in PCBs in sediment along the lower Rhône River, France. *Science of the Total Environment*. 2012;433:189-97. doi:<http://dx.doi.org/10.1016/j.scitotenv.2012.06.044>.

Dabrin A, Durand C, Garric J, Geffard O, Ferrari BJD, Coquery M. Coupling geochemical and biological approaches to assess the availability of cadmium in freshwater sediment. *Science of the Total Environment*. 2012;424:308-15.
doi:<http://dx.doi.org/10.1016/j.scitotenv.2012.02.069>.

Camilleri J, Morin N, Miège C, Coquery M, Cren Olivé C. Determination of the uptake and release rates of multifamilies of endocrine disruptor compounds on the polar C18 Chemcatcher. Three potential performance reference compounds to monitor polar pollutants in surface water by integrative sampling. *Journal of Chromatography A*. 2012;1237:37-45.
doi:<http://dx.doi.org/10.1016/j.chroma.2012.03.025>.

Besse JP, Geffard O, Coquery M. Relevance and applicability of active biomonitoring in continental waters under the Water Framework Directive. *Trac-Trends in Analytical Chemistry*. 2012;36:113-27. doi:<http://dx.doi.org/10.1016/j.trac.2012.04.004>.

Artigas J, Majerholc J, Foulquier A, Margoum C, Volat B, Neyra M, Pesce S. Effects of the fungicide tebuconazole on microbial capacities for litter breakdown in streams. *Aquatic Toxicology*. 2012;122-123:197-205. doi:<http://dx.doi.org/10.1016/j.aquatox.2012.06.011>.

2011

Tournebize J, Vincent B, Chaumont C, Gramaglia C, Margoum C, Molle P, Carluer N, Gril JJ. Ecological services of artificial wetland for pesticide mitigation. Socio-technical adaptation for watershed management through TRUSTEA project feedback. *Procedia Environmental Sciences*. 2011;9:183-90. doi:<http://dx.doi.org/10.1016/j.proenv.2011.11.028>.

Roubeix V, Mazzella N, Schouler L, Fauville V, Morin S, Coste M, Delmas F, Margoum C. Variations of periphytic diatom sensitivity to the herbicide diuron and relation to species distribution in a contamination gradient: implications for biomonitoring. *Journal of Environmental Monitoring*. 2011;13:1768-74. doi:<http://dx.doi.org/10.1039/C0EM00783H>.

Martin Ruel S, Choubert JM, Esperanza M, Miège C, Navalón Madrigal P, Budzinski H, Le Ménach K, Lazarova V, Coquery M. On-site evaluation of the removal of 100 micro-pollutants through advanced wastewater treatment processes for reuse applications. *Water Science and Technology*. 2011;63(11):2486-97. doi:<http://dx.doi.org/10.2166/wst.2011.470>.

Gust M, Buronfosse T, Geffard O, Coquery M, Mons R, Abbaci K, Giamberini L, Garric J. Comprehensive biological effects of a complex field poly-metallic pollution gradient on the New Zealand mudsnail *Potamopyrgus antipodarum* (Gray). Aquatic Toxicology. 2011;101:100-8. doi:<http://dx.doi.org/10.1016/j.aquatox.2010.09.007>.

El Debs R, Abi Jaoudé M, Morin N, Miege C, Randon J. Retention of beta blockers on native titania stationary phase. Journal of Separation Science. 2011;34(15):1805-10. doi:<http://dx.doi.org/10.1002/jssc.201100259>.

Choubert JM, Pomies M, Martin Ruel S, Coquery M. Influent concentrations and removal performances of metals through municipal wastewater treatment processes. Water Science and Technology. 2011;63(9):1967-73.

Choubert JM, Martin Ruel S, Esperanza M, Budzinski H, Miège C, Lagarrigue C, Coquery M. Limiting the emissions of micro-pollutants: what efficiency can we expect from wastewater treatment plants? Water Science and Technology. 2011;63(1):57-65. doi:<http://dx.doi.org/10.2166/wst.2011.009>.

Carluer N, Tournebize J, Gouy V, Margoum C, Vincent B, Gril JJ. Role of buffer zones in controlling pesticides fluxes to surface waters. Procedia Environmental Sciences. 2011;9:21-6.

Bruchet A, Robert S, Esperanza M, Janex Habibi ML, Miège C, Coquery M, Budzinski H, LeMenach K. Natural attenuation of priority and emerging contaminants during river bank filtration and artificial recharge. European Journal of Water Quality - Journal Européen d'Hydrologie. 2011;42(2):123-33. doi:<http://dx.doi.org/10.1051/wqual/2012004>.

Boutron O, Margoum C, Chovelon JM, Guillemain C, Gouy V. Effect of the submergence, the bed form geometry and the speed of the surface water flow on the mitigation of pesticides in agricultural ditches. Water Resources Research. 2011;47:W08505-. doi:<http://dx.doi.org/10.1029/2011WR010378>.

2010

Tlili A, Bérard A, Roulier JL, Volat B, Montuelle B. PO43 dependence of the tolerance of autotrophic and heterotrophic biofilm communities to copper and diuron. Aquatic Toxicology. 2010;98:165-77. doi:<http://dx.doi.org/10.1016/j.aquatox.2010.02.008>.

Roulier JL, Belaud S, Coquery M. Comparison of dynamic mobilization of Co, Cd and Pb in sediments using DGT and metal mobility assessed by sequential extraction. Chemosphere. 2010;79:839-43. doi:<http://dx.doi.org/10.116/j.chemosphere.2010.02.056>.

Rabiet M, Margoum C, Gouy V, Carluer N, Coquery M. Assessing pesticide concentrations and fluxes in the stream of a small vineyard catchment. Effect of sampling frequency. Environmental Pollution. 2010;158(3):737-48. doi:<http://dx.doi.org/10.1016/j.envpol.2009.10.014>.

Pesce S, Margoum C, Montuelle B. In situ relationships between spatio-temporal variations in diuron concentrations and phototrophic biofilm tolerance in a contaminated river. Water Research. 2010;44(6):1941-9. doi:<http://dx.doi.org/10.1016/j.watres.2009.11.053>.

Pesce S, Lissalde S, Lavieille D, Margoum C, Mazzella N, Roubeix V, Montuelle B. Evaluation of single and joint toxic effects of diuron and its main metabolites on natural phototrophic biofilms using a pollution-induced community tolerance (PICT) approach. Aquatic Toxicology. 2010;99:492-9. doi:<http://dx.doi.org/10.1016/j.aquatox.2010.06.006>.

Martin Ruel S, Esperanza M, Choubert JM, Valor I, Budzinski H, Coquery M. On-site evaluation of the efficiency of conventional and advanced secondary processes for the removal of 60 organic micropollutants. Water Science and Technology. 2010;62(12):2970-8. doi:<http://dx.doi.org/10.2166/wst.2010.989>.

Heath E, Kosjek T, Andersen H, Holten Lützhoff H, Adolfson Erici M, Coquery M, During R, Gans O, Guignard C, Karlsson P, Manciot F, Moldovan Z, Patureau D, Crucera L, Sacher F, Ledin A. Inter-laboratory exercise on steroid estrogens in aqueous samples. Environmental Pollution. 2010;158(3):658-62.

Gabet Giraud V, Miège C, Herbreteau B, Hernandez-Raquet G, Coquery M. Development and validation of an analytical method by LC-MS/MS for the quantification of estrogens in sewage sludge. Analytical and Bioanalytical Chemistry. 2010;396(5):1841-51. doi:<http://dx.doi.org/10.1007/s00216-009-3428-y>.

Gabet Giraud V, Miège C, Choubert JM, Martin Ruel S, Coquery M. Occurrence and removal of estrogens and beta blockers by various processes in wastewater treatment plants. Science of the Total Environment. 2010;408:4257-69. doi:<http://dx.doi.org/10.1016/j.scitotenv.2010.05.023>.

Boutron O, Margoum C, Chovelon JM, Guillemain C, Gouy V. Laboratory studies of the adsorption of two pesticides (diuron and tebuconazole) using a batch design and an experimental flume: influence of contact conditions. International Journal of Environmental Analytical Chemistry. 2010;90(3-6):286-98. doi:<http://dx.doi.org/10.1080/03067310903353487>.

2009

Tilghman A, Coquery M, Dulio V, Garric J. Integrated chemical and biomonitoring strategies for risk assessment of emerging substances. Trac-Trends in Analytical Chemistry. 2009;28(1):1-9. doi:<http://dx.doi.org/10.1016/j.trac.2008.11.002>.

Miège C, Karolak S, Gabet V, Jugan ML, Oziol L, Chevreuil M, Lévi Y, Coquery M. Evaluation of estrogenic disrupting potency in aquatic environments and urban wastewaters: combination of chemical and biological analysis. Trac-Trends in Analytical Chemistry. 2009;28(2):186-95. doi:<http://dx.doi.org/10.1016/j.trac.2008.11.007>.

Miège C, Choubert JM, Ribeiro L, Eusèbe M, Coquery M. Fate of pharmaceuticals and personal care products in wastewater treatment plants. Conception of a database and first results. Environmental Pollution. 2009;157:1721-6. doi:<http://dx.doi.org/10.1016/j.envpol.2008.11.045>.

Miège C, Bados P, Brosse C, Coquery M. Method validation for the analysis of estrogens (including conjugated compounds) in aqueous matrices. Trac-Trends in Analytical Chemistry. 2009;28(2):237-44. doi:<http://dx.doi.org/10.1016/j.trac.2008.11.005>.

Guasch H, Leira M, Montuelle B, Geiszinger A, Roulier JL, Tornes E, Serra A. Use of multivariate analyses to investigate the contribution of metal pollution to diatom species composition: search for the most appropriate cases and explanatory variables. *Hydrobiologia*. 2009;627:143-58. doi:<http://dx.doi.org/10.1007/s10750-009-9721-0>.

Boutron O, Gouy V, Touze Foltz N, Benoit P, Chovelon JM, Margoum C. Geotextile fibres retention properties to prevent surface water nonpoint contamination by pesticides in agricultural areas. *Geotextiles and Geomembranes*. 2009;27(4):254-61. doi:<http://dx.doi.org/10.1016/j.geotexmem.2008.12.001>.

Babut M, Miège C, Villeneuve B, Abarnou A, Duchemin J, Marchand P, Narbonne JF. Correlations between dioxin-like and indicators PCBs: Potential consequences for environmental studies involving fish or sediment. *Environmental Pollution*. 2009;157(12):3451-6. doi:<http://dx.doi.org/10.1016/j.envpol.2009.06.016>.

2008

Tlili A, Dorigo U, Montuelle B, Margoum C, Carluer N, Gouy V, Bouchez A, Bérard A. Response of chronically contaminated biofilms to short pluses of diuron: an experimental study simulating flooding events in a small river. *Aquatic Toxicology*. 2008;87(4):252-63. doi:<http://dx.doi.org/10.1016/j.aquatox.2008.02.004>.

Roulier JL, Tusseau-Vuillemin MH, Coquery M, Geffard O, Garric J. Measurement of dynamic mobilization of trace metals in sediments using DGT and comparison with bioaccumulation in Chironomus riparius: first results of an experimental study. *Chemosphere*. 2008;70:925-32. doi:<http://dx.doi.org/10.1016/j.chemosphere.2007.06.061>.

Muresan B, Cossa D, Coquery M, Richard S. Mercury sources and transformations in a man-perturbed tidal estuary: The Sinnamary Estuary, French Guiana. *Geochimica et Cosmochimica Acta*. 2008;72(22):5416-30.

Morin S, Duong TT, Dabrin A, Coynel A, Herlory O, Baudrimont M, Delmas F, Durrieu G, Schäfer J, Winterton P, Blanc G, Coste M. Long term survey of heavy metal pollution, biofilm contamination and diatom community structure in the Riou-Mort watershed, South West France. *Environmental Pollution*. 2008;151(3):532-42.

Miège C, Choubert JM, Ribeiro L, Eusèbe M, Coquery M. Removal efficiency of pharmaceuticals and personal care products with varying wastewater treatment processes and operating conditions. Conception of a database and first results. *Water Science and Technology*. 2008;57(1):49-56. doi:<http://dx.doi.org/10.2166/wst.2008.823>.

Martin Ruel S, Choubert JM, Ginestet P, Coquery M. Semi-quantitative analysis of a specific database on priority and emerging substances in wastewater and sludge. *Water Science and Technology*. 2008;57(12):1935-44.

Gagnaire B, Geffard O, Xuereb B, Margoum C, Garric J. Cholinesterase activities as potential biomarkers: characterization in two freshwater snails, *Potamopyrgus antipodarum* (Mollusca, Hydrobiidae, Smith 1889) and *Valvata piscinalis* (Mollusca, Valvatidae, Müller 1774). *Chemosphere*. 2008;71(3):553-60. doi:<http://dx.doi.org/10.1016/j.chemosphere.2007.09.048>.

Felten V, Charmantier G, Mons R, Geffard A, Rouselle P, Coquery M, Garric J, Geffard O. Physiological and behavioural responses of *Gammarus pulex* (Crustacea: Amphipoda)

exposed to cadmium. Aquatic Toxicology. 2008;86:413-25.
doi:<http://dx.doi.org/10.1016/j.aquatox.2007.12.002>.

Bony S, Gillet C, Bouchez A, Margoum C, Devaux A. Genotoxic pressure of vineyard pesticides in fish: field and mesocosm surveys. Aquatic Toxicology. 2008;89:197-203.

Articles techniques en français (ATCL)

2021

Mathon B., A. Dabrin, I. Allan, S. Lardy-Fontan, A. Togola, J.-P. Ghestem, C. Tixier, J.-L. Gonzalez, E. Alasonati, M. Ferreol, L. Dherret, A. Yari, L. Richard, A. Moreira, M. Eon, B. Delest, C. Pollono, C. Munsch, E. Noel-Chery, M. El Mossaoui, P.-F. Staub, N. Mazzella, C. Miège. 2021 - Les échantillonneurs intégratifs passifs, des outils pertinents pour améliorer la surveillance réglementaire de la qualité chimique des milieux aquatiques ? *Techniques Sciences Méthodes*, 116 (6), 57-71. <https://doi.org/10.36904/tsm/202106057>

Soulier C., V. Boiteux, P. Candido, E. Caupos, M. Chachignon, G. Couturier, X. Dauchy, M.-H. Devier, M. Esperanza, A. Fildier, C. Gardia-Parege, R. Guibal, J. Le Roux, G. Leroy, F. Lestremau, S. Lissalde, N. Noyon, A. Piram, E. Vulliet, C. Margoum. 2021 - La spectrométrie de masse haute résolution pour la recherche de micropolluants organiques dans l'environnement. *Techniques Sciences Méthodes*, 116 (6), 43-54.
<https://doi.org/10.36904/tsm/202106043>

2019

Yari, A., Dabrin, A., Coquery, M. - 2019. Méthodologie d'évaluation des tendances temporelles de contamination dans les sédiments et les matières en suspension des systèmes aquatiques continentaux. *Techniques Sciences Méthodes*, 114 (6), 71-84.
<https://doi.org/10.1051/tsm/201906071>

Pesce, S., Bonnimeau, C., Coquery, M., Dabrin, A., Degli-Esposti, D., Gouy, V., Masson, M., Mendoza-Lera, C., Neyra, M., Yari, A. - 2019. Recommandations d'un collectif franco-suisse d'experts pour une meilleure évaluation de la qualité écotoxicologique des sédiments par l'étude des communautés benthiques. *Sciences Eaux et Territoires*, n° Hors Série 55, 1-9.
DOI: [10.14758/set-revue.2019.hs.04](https://doi.org/10.14758/set-revue.2019.hs.04).

Launay M., J. Le Coz, S. Diouf, B. Camenen, F. Thollet, M Coquery - 2019. Re-évaluation des apports moyens de matières en suspension de l'Arve au Rhône. *La Houille Blanche*, 2, 89–100. <https://hal.archives-ouvertes.fr/hal-02553077>

2018

Le Bescond, C., Thollet, F., Poulier, G., Gairoard, S., Lepage, H., Branger, F., Jamet, L., Raidelet, N., Radakovitch, O., Dabrin, A., Coquery, M., Le Coz, J. Des flux d'eau aux flux de matières en suspension et de contaminants associés : Gestion d'un réseau de stations hydro-sédimentaires sur le Rhône. *La Houille Blanche*, 3, 63-70. <https://hal.archives-ouvertes.fr/hal-01945337>

Penru, Y., Choubert, J.M., Mathon, B., Guillot, A., Esperanza, M., Cretollier, C., Dherret, L., Daval, A., Masson, M., Lagarrigue, C., Miege, C., Coquery, M. - 2018. Élimination de micropolluants des eaux résiduaires urbaines par ozonation : retour d'expérience de la station d'épuration de Sophia Antipolis. *Techniques Sciences Méthodes*, 6, 71-83

2017

Penru Y, Miege C, Daval A, Guillon A, Esperanza M, Cretollier C, Masson M, Le Goaziou Y, Baig S, Martin Ruel S, Coquery M, Choubert JM. Traitement des micropolluants émergents par ozonation tertiaire. Performances de la station d'épuration des Bouillides, Sophia-Antipolis, France. *Aqua & Gas.* 2017; 2017(1):8.

2015

Le Dreau M, Chaumot A, Foulquier A, François A, Geffard O, Margoum C, Pesce S, Martin C, Mazzella N, Gouy V. Outils intégratifs pour évaluer l'impact des pratiques phytosanitaires sur les cours d'eau. *Innovations Agronomiques.* 2015;46:51-61.

Choubert JM, Pomies M, Budzinski H, Esperanza M, Le Menach K, Noyon N, Cretollier C, Dherret L, Miege C, Coquery M. Peut-on améliorer l'élimination des micropolluants des eaux usées en optimisant le procédé à boues activées ? *Techniques Sciences Méthodes.* 2015(3):32-50.

Choubert JM, Cretollier C, Tahar A, Budzinski H, Esperanza M, Dherret L, Le Menach K, Noyon N, Miege C, Coquery M. Quels micropolluants peut-on éliminer par les procédés extensifs de traitement des eaux usées domestiques ? *Techniques Sciences Méthodes.* 2015(3):51-66.

Bruchet A, Martin S, Coquery M. Indicateurs chimiques d'efficacité de traitement et d'influence des rejets de stations d'épuration sur le milieu récepteur. *Techniques Sciences Méthodes.* 2015(3):15-30.

Besnault S, Martin Ruel S, Baig S, Heiniger B, Esperanza M, Budzinski H, Miège C, Le Menach K, Dherret L, Roussel Galle A, Coquery M. Evaluation technique, économique et environnementale de procédés de traitement complémentaire avancés pour l'élimination des micropolluants. *Techniques Sciences Méthodes.* 2015(3):67-83.

Besnault S, Choubert JM, Miege C, Martin Ruel S, Noyon N, Esperanza M, Budzinski H, Le Menach K, Dherret L, Bados P, Coquery M. Devenir des micropolluants adsorbables à travers les procédés de traitement des boues. *Techniques Sciences Méthodes.* 2015(3):84-102.

2013

Assoumani A, Margoum C, Chataing S, Guillemain C, Liger L, Coquery M. Development and in situ application of stir bar sorptive extraction for the determination of agricultural pesticides in surface water. *Spectra Analyse.* 2013;291:47-51.

2012

Choubert JM, Pomies M, Miège C, Martin Ruel S, Budzinski H, Wisniewski C, Coquery M. Élimination des micropolluants par les stations d'épuration domestiques. *Sciences Eaux et Territoires.* 2012(9):6-15.

2011

Soulier C, Gabet V, Lardy S, Lemenach K, Pardon P, Esperanza M, Miège C, Choubert JM, Martin Ruel S, Bruchet A, Coquery M, Budzinski H. Zoom sur les substances pharmaceutiques : présence, partition, devenir en station d'épuration. *Techniques Sciences Méthodes*. 2011;1/2:63-77.

Miège C, Budzinski H, Jacquet R, C. S, Pelte T, Coquery M. L'échantillonnage intégratif par POCIS. Application pour la surveillance des micropolluants organiques dans les eaux résiduaires traitées et les eaux de surface. *Techniques Sciences Méthodes*. 2011;1/2:80-94.

Coquery M, Pomies M, Martin Ruel S, Budzinski H, Miège C, Esperanza M, Soulier C, Choubert JM. Mesurer les micropolluants dans les eaux usées brutes et traitées. Protocoles et résultats pour l'analyse des concentrations et des flux. *Techniques Sciences Méthodes*. 2011;1-2:25-43.

Choubert JM, Martin Ruel S, Budzinski H, Miège C, Esperanza M, Soulier C, Lagarrigue C, Coquery M. Évaluer les rendements des stations d'épuration : apports méthodologiques et résultats pour les micropolluants en filières conventionnelles et avancées. *Techniques Sciences Méthodes*. 2011;1-2:44-62.

Rapports scientifiques et techniques

2021

Bégorre C., Dabrin A., Grisot G., Dherret L., Masson M., Coquery M. (2021). Traçage des MES -Estimation des contributions relatives des affluents aux flux de MES sur le Rhône amont, intermédiaire et aval. Rapport Final. Observatoire des Sédiments du Rhône (OSR), 5ème Programme d'Actions, 34p. <https://hal.archives-ouvertes.fr/hal-03292653>

Dabrin A., H. Delile, B. Mathon, M. Bretier, L. Dherret, A. Daval, G. Grisot, C. Miege, M. Coquery - 2021. Contribution relative des flux de contaminants particulaires et dissous dans le Gier. Rapport final. Observatoire des Sédiments du Rhône (OSR5), 34 p.
<https://hal.archives-ouvertes.fr/hal-03293153>

Delile H., Gruat A., Coquery M., Masson M., Dabrin A., Le Coz J., Miège C., Lagouy M., Radakovitch O. - 2021. Evaluation multi-échelle des flux de MES et de contaminants associés dans le bassin du Rhône. Rapport Final. Observatoire des Sédiments du Rhône (OSR5), 96p.
<https://hal.archives-ouvertes.fr/hal-03291035>

Jabiol J., Artigas J., Bonnneau C., Chaumot A., Chauvet E., François A., Guérol F., Le Dréau M., Legrand C., Margoum C., Martin-Laurent F., Mazzella N., Pesce S., Tardy V., Usseglio-Polatera P., Gouy V. (2021). Rapport final du projet Impact-CE : Développement et transfert aux opérationnels d'outils intégratifs de mesure chimique et biologique au sein des cours d'eau pour le suivi de l'impact des pratiques agricoles et de leur évolution. Ecophyto II. 157 pp.

2020

Delile H., Coquery M., Masson M., Miège C., Le Coz J. – 2020. Approfondissement d'une méthodologie pour l'évaluation des tendances spatiales de contamination – spécificité du Rhône vis-à-vis des grands fleuves français. Rapport OSR5, 62 p.

<http://www.graie.org/osr/spip.php?rubrique49>

Gruat A., Le Coz, J., Coquery, M., Thollet, F., Lagouy, M., Buffet, A., Dramais, G., Dabrin, A., Masson, M., Miège, C., Grisot, G., Delile, Dur, G., Ambrosi, J.P., H., Gattaccea, J., Borschneck, D., Vidal, V., Raimbault, P., Fornier, M., Lepage, H., Radakovitch, O., Pairaud, I., Fuchs, R., Ravel, C., Repecaud, M. - 2020. Rapport sur le fonctionnement du réseau OSR d'observation des flux de matières en suspension et de contaminants particulaires (OSR 5 – année 2019). 32 p. <http://www.graie.org/osr/spip.php?rubrique49>

Yari A., A. Dabrin, M. Masson - 2020. Biais potentiel sur la granulométrie et les concentrations en contaminants dans les matières en suspension échantillonnées par piège à particules - Synthèse bibliographique. Rapport AQUAREF, 38p.

https://www.aquaref.fr/recherche_thematique

Fisicaro P., C. Fallot, C. Oster, E. Alasonati, B. Lalere, M. Desenfant, O. Geffard et M. Coquery – 2020. Développement d'un matériau de référence « gammarides » pour la mise en œuvre de la surveillance chimique sur biote – résultats d'une comparaison interlaboratoires 2020, Rapport AQUAREF, 28p. https://www.aquaref.fr/recherche_thematique

2019

Le Bescond, C., Le Coz, J., Coquery, M., Thollet, F., Lagouy, M., Buffet, A., Dramais, G., Poulier, G., Dabrin, A., Masson, M., Miege, C., Grisot, G., Gattacceca, J., Ambrosi, J.P., Delanghe, D., Angeletti, B., Raimbault, P., Fornier, M., Lepage, H., Radakovitch, O., Pairaud, I., Fuchs, R. - 2019. Rapport sur le fonctionnement du réseau OSR d'observation des flux de matières en suspension et de contaminants particulaires (OSR 5 – année 2018). 114 p.

<http://www.graie.org/osr/spip.php?rubrique49>

Yari A., A. Dabrin, M. Masson, M. Coquery- 2019. Distribution spatiale et tendances temporelles des concentrations des contaminants dans les sédiments: comment améliorer l'exploitation de données issues de la surveillance? Rapport AQUAREF, 38p

https://www.aquaref.fr/recherche_thematique

Dabrin A., M. Masson, C. Le-Bescond, M. Coquery – 2019. Représentativité des matières en suspension échantillonnées par les pièges à particules dans les cours d'eau. Rapport AQUAREF, 28p. https://www.aquaref.fr/recherche_thematique

Papias S., Prost-Boucle S., Morvannou A., Forquet N., Choubert J.M., Pourcher A.M., Clement R., Dherret L., Coquery M., Le Guedard M., Boutin C. - 2019. Les zones de rejet végétalisées : analyse du fonctionnement et aide à la conception et à l'exploitation. AFB. Collection Guides et protocoles. 84p. + ann. 12p.

Moreau P., Amalric L., Ghestem J.P., Yari A., Coquery M., Dabrin A. – 2019. Résultats de la comparaison interlaboratoires sur sédiment brut : effet de la préparation sur l'analyse des métaux et des polluants organiques – Rapport BRGM RP- 69028-FR- Rapport AQUAREF, 130 p. https://www.aquaref.fr/recherche_thematique

2018

Coquery M., A. Grouhel, N. Marescaux – 2018. AQUAREF - Conditionnement et transport des échantillons biote (poisson) en milieu continental (cours d'eau – plan d'eau) dans le cadre de la surveillance chimique des programmes DCE - Recommandations techniques - Edition 2017, 22 p. <https://www.aquaref.fr/guides-recommandations-chimie>

Assoumani A., M. Coquery, S. Lardy-Fontan, F. Lestremau – 2018. AQUAREF - Opérations d'analyse physico-chimique du biote en milieu continental dans le cadre des programmes de surveillance DCE - Recommandations techniques – Edition 2017, 38 p.
<https://www.aquaref.fr/guides-recommandations-chimie>

Amalric L., S. Lardy-Fontan, F. Lestremau., Yari A., - 2018. AQUAREF - Opérations d'analyse physico-chimique des eaux et des sédiments en milieu continental dans le cadre des programmes de surveillance DCE - Recommandations techniques – Edition 2018.
<https://www.aquaref.fr/guides-recommandations-chimie>

Delanghe, D., Lepage, H., Masson, M., Le Bescond, C. - 2018. Synthèse sur les techniques granulométriques (Méthodologie et inter-comparaison des analyses granulométriques). Rapport OSR4, 66 p. <http://www.graie.org/osr/spip.php?rubrique49>

Masson M., Guigues N., Arhror M., Raveau S., Brosse B., Forquet N. - 2018. Caractérisation de la matière organique d'eaux résiduaires et d'eaux de surface par les sondes

spectrophotométriques UV-Visible. Rapport AQUAREF, 77 p.

https://www.aquaref.fr/recherche_thematique

Masson M., Namour P. – 2018. Mise à jour de la veille bibliographique sur les capteurs en développement pour la mesure in situ et en continu des substances réglementées DCE et des composés majeurs permettant la caractérisation globale des eaux–Rapport Aquaref, 63 p.

https://www.aquaref.fr/recherche_thematique

2017

Adoir, E., Carluer, N., Gouy, V., Margoum, C., & Le Henaff, G. (2017). Origine des contaminations récurrentes de pesticides interdits. Rapport final. <https://hal.inrae.fr/hal-02607060>

Yari A., Dabrin A., Coquery, M. – 2017. Recommandations pour l'estimation des tendances temporelles et des distributions spatiales des concentrations de contaminants dans les sédiments – Rapport AQUAREF, 124 p.

Coquery M., Lionard E., A. Yari – 2017. AQUAREF - Opérations d'échantillonnage de sédiments en milieu continental (cours d'eau et plan d'eau) dans le cadre des programmes de surveillance DCE - Recommandations techniques – Edition 2017, 22 p

Poulier, G., LeCoz, J., Le Becond, C., Thollet F., Panay, J., Lagouy, M., Dramaïs, G., Grisot, G., Launay, M., Gattacceca, J., Gairoard, S., Radakovitch, O., Lepage, H., Coquery, M. - 2017. Bilan actualisé des flux de matières en suspension et micropolluants associés sur le bassin du Rhône. Rapport final. OSR4. 90 p.

Poulier G., Miege C., Le Bescond C., Dabrin A., Grisot G., Gregson M., Lagouy M., Thollet F., Buffet A., Dramaïs G., Lepage H., Gattacceca J., Gairoard S., Coquery M. 2017. Etat des lieux des contaminants prioritaires et émergents dans les matières en suspension du bassin du Rhône. (OSR 4). 96 p.

Poulier G., Miege C., Coquery M. 2017 - Evaluation des sources de contaminants organiques dans les matières en suspension du bassin du Rhône. (OSR4) 35 p.

Launay, M., Dugue, V., Poulier, G., Camenen, B., Le Coz, J., Coquery, M., Radakovitch, O. - 2017. ZABR-OSR - Livrable action III.4 : Interprétation des données de flux existantes aux stations de Jons et Arles. 34 p.

Choubert, J.M., Penru, Y., Mathon, B., Guillon, A., Esperanza, M., Cretollier, C., Dherret, L., Daval, A., Masson, M., Lagarrigue, C., Miege, C., Coquery, M. - 2017. Élimination de substances prioritaires et émergentes des eaux résiduaires urbaines par ozonation : évaluations technique, énergétique, environnementale. Rapport final du projet MICROPOLIS-PROCEDES. Rapport final, Irstea-AERMC, 167 p.

Gentès S., Vigouroux R., Coquery M., Hanquiez V., Allard L., Maury-Brachet R. - 2017. Proposition de concentrations de références en mercure dans l'ichtyofaune de Guyane. Rapport Université de Bordeaux/Office de l'Eau de Guyane, 71 p.

Mathon, B., Vandycke, A., Coquery, M., Bados, P., Daval, A., Cretollier, C., Masson, M., Arhror, M., Miege, C., Choubert, J.M. - 2017. Photodégradation de micropolluants

organiques sous rayonnement solaire en zone de rejet végétalisée de type bassin. Rapport final, Irstea-AFB, 63 p.

Le Bescond, C., Le Coz, J., Coquery, M., Thollet, F., Panay, J., Lagouy, M., Buffet, A., Dugue, V., Poulier, G., Dabrin, A., Masson, M., Miege, C., Dramais, G., Grisot, G., Gairoard, S., Radakovitch, O., Delanghe, D., Angeletti, B., Gattacecca, J., Raimbault, P., Fornier, M., Lepage, H. - 2017. Fonctionnement du réseau OSR d'observation des flux de matières en suspension et de contaminants particulaires et bancarisation des données pour l'année 2016 (OSR 4), 27 p.