

# Liste des communications scientifiques 2013-2018

M. Mathias MONNOT

Section CNU 62.

**Maître de Conférences à l'IUT d'Aix-Marseille Université**

Département Chimie

Laboratoire Mécanique, Modélisation et Procédés Propres (M2P2)

Aix-Marseille Université, Centrale Marseille, UMR CNRS 7340

## Articles publiés dans des revues internationales avec comité de lecture

- [7] Sawadogo, B., Konaté, Y., Lesage, G., Zaviska, F., **Monnot, M.**, Heran, M., Karambiri, H., 2018. Brewery wastewater treatment using MBR coupled with nanofiltration or electro dialysis: biomass acclimation and treatment efficiency. *Water Science and Technology* wst2018232. <https://doi.org/10.2166/wst.2018.232>
- [6] Jacquin, C., **Monnot, M.**, Hamza, R., Kouadio, Y., Zaviska, F., Merle, T., Lesage, G., Héran, M., 2018. Link between dissolved organic matter transformation and process performance in a membrane bioreactor for urinary nitrogen stabilization. *Environmental Science: Water Research & Technology*. <https://doi.org/10.1039/C8EW00029H>
- [5] **Monnot, M.**, Carvajal, G.D.M., Laborie, S., Cabassud, C., Lebrun, R., 2018. Integrated approach in eco-design strategy for small RO desalination plants powered by photovoltaic energy. *Desalination* 435, 246–258. <https://doi.org/10.1016/j.desal.2017.05.015>
- [4] **Monnot, M.**, Nguyen, B., Zaviska, F., Lesage, G., Héran, M., 2017a. Performance of nanofiltration and reverse osmosis after membrane bioreactor for urban source-separated urine treatment and water reuse. *Desalination and Water Treatment*. 95, 18–33. <https://doi.org/10.5004/dwt.2017.21441>
- [3] **Monnot, M.**, Nguyễn, H.T.K., Laborie, S., Cabassud, C., 2017b. Seawater reverse osmosis desalination plant at community-scale: Role of an innovative pretreatment on process performances and intensification. *Chemical Engineering and Processing: Process Intensification* 113, 42–55. <https://doi.org/10.1016/j.cep.2016.09.020>
- [2] **Monnot, M.**, Laborie, S., Cabassud, C., 2016a. Activated carbon selection for the adsorption of marine DOC and analysis of DOC fractionation. *Desalination and Water Treatment* 57, 25435–25449. <https://doi.org/10.1080/19443994.2016.1156584>
- [1] **Monnot, M.**, Laborie, S., Cabassud, C., 2016b. Granular activated carbon filtration plus ultrafiltration as a pretreatment to seawater desalination lines: Impact on water quality and UF fouling. *Desalination* 383, 1–11. <https://doi.org/10.1016/j.desal.2015.12.010>

## Communications dans des congrès internationaux

- [14] Laborie, S., **Monnot, M.**, Cabassud, C., Lebrun, R., Design strategy of small RO plants powered by photovoltaic energy with consideration of environmental and energy issues, Euromembrane, 9<sup>th</sup>-13<sup>th</sup> July 2018, Valencia – Spain (oral)
- [13] **Monnot, M.**, Cordier, C., Lefèvre, S., Desdouts, M., Le Guyader, S., Stravrakakis, C., Moulin, P., Concentration by membrane filtration before wet air oxidation for full intensified

seawater and wastewater treatment, Euromembrane, 9<sup>th</sup>-13<sup>th</sup> July 2018, Valencia – Spain (poster)

[12] **Monnot, M.**, Nguyen B., Zaviska F., Lesage G., Héran M. Nanofiltration and reverse osmosis as membrane bioreactor post-treatment for direct onboard water reuse, WCCE conference, 1<sup>st</sup> – 5<sup>th</sup> October 2017, Barcelona - Spain (oral)

[11] **Monnot, M.**, Nguyen B., Zaviska F., Lesage G., Héran M. Full advanced membrane wastewater treatment (MBR- NF/RO) for direct onboard reuse, SFGP conference 11<sup>th</sup> – 13<sup>th</sup> July 2017, Nancy - France (oral)

[10] **Monnot, M.**, Jacquin C., Hamza R., Kouadio Y., Zaviska F., Lesage G., Héran M. Membrane bioreactor for urban source-separate urine treatment and water reuse: microbial acclimation and system performance, IWA-MTC, 5<sup>th</sup> -9<sup>th</sup> September 2017, Singapour (oral)

[9] **Monnot, M.**, Martínez Carvajal G.D., Laborie, S., Cabassud, C., Lebrun R. Integrated approach for the design of reverse osmosis plants powered by photovoltaic energy at community-scale, IWA-MTC, 5<sup>th</sup> -9<sup>th</sup> September 2017, Singapour (oral)

[8] **Monnot, M.**, Nguyễn H. T. K., Lafforgue C., Laborie, S., Cabassud, C., On site testing of a community-scale seawater RO pilot plant: lessons learnt to prevent biofouling, 12th World Filtration Congress, 11-15 April 2016, Taipei – Taiwan (oral)

[7] **Monnot, M.**, Laborie, S., Cabassud, C., Granular activated carbon (GAC) filter as a pretreatment in seawater desalination routes: from the choice of the GAC to on-site testing of filtration performances, 12th World Filtration Congress, 11-15 April 2016, Taipei – Taiwan (oral)

[6] **Monnot, M.**, Laborie, S., Cabassud, C., Long-term efficiency of an intensified seawater membrane desalination lines, EPIC5, 27 september-1st October 2015, Nice – France (oral)

[5] **Monnot, M.**, Laborie, S., Cabassud, C., Study of long-term efficiency of a process coupling GAC filtration + ultrafiltration and SWRO, 4th IWA Regional Conference on Membrane Technology, 3-6 december 2014, Ho Chi Minh City – Vietnam (oral)

[4] **Monnot, M.**, Laborie, S., Cabassud, C., GAC filtration before ultrafiltration as a combined pretreatment to SWRO: capability of NOM retention and impact on UF fouling, 4th IWA Regional Conference on Membrane Technology, 3-6 december 2014, Ho Chi Minh City – Vietnam (oral)

[3] **Monnot, M.**, Laborie, S., Cabassud, C., Granular activated carbon filtration as a pretreatment to ultrafiltration for seawater desalination, EDS Conference on Desalination for the Environment, 11-15 may 2014, Limassol – Cyprus (oral)

[2] **Monnot, M.**, Laborie, S., Cabassud, C., Prétraitement par adsorption sur charbon actif avant dessalement d'eau de mer par osmose inverse, 9ème Congrès Francophone de Génie des Procédés, 28-30 avril 2014, Agadir – Maroc (oral)

[1] **Monnot, M.**, Tansakul C., Laborie, S., Cabassud, C., Adsorption combined with ultrafiltration as a pretreatment to seawater reverse osmosis, EWM 2013: Engineering with membranes : towards a sustainable future, 3-7 september 2013, Oléron - France (poster)