

Articles in peer-reviewed journals

2010

Bayer, C., Follmann, M., Melin, T., Wintgens, T., Larsson, K. & Almemark, M. (2010). The ecological impact of membrane-based extraction of phenolic compounds - A life cycle assessment study. *Water Science and Technology*, 62(4), 915–919.

Buetehorn, S., Carstensen, F., Wintgens, T., Melin, T., Volmering, D. & Vossenkaul, K. (2010). Permeate flux decline in cross-flow microfiltration at constant pressure. *Desalination*, 250(3), 985–990.

Hochstrat, R., Wintgens, T., Kazner, C. & Melin, T. (2010). Options for water scarcity and drought management - The role of desalination. *Desalination and Water Treatment*, 18(1-3), 96–102.

Hochstrat, R., Wintgens, T., Kazner, C., Jeffrey, P., Jefferson, B. & Melin, T. (2010). Managed aquifer recharge with reclaimed water: approaches to a European guidance framework. *Water Science and Technology*, 62(6), 1265–1273.

Kochan, J., Wintgens, T., Wong, J. E. & Melin, T. (2010). Properties of polyethersulfone ultrafiltration membranes modified by polyelectrolytes. *Desalination*, 250(3), 1008–1010.

Levantesi, C., La Mantia, R., Masciopinto, C., Böckelmann, U., Ayuso-Gabella, M., Salgot, M., Tandoi, V., van Houtte, E., Wintgens, T. & Grohmann, E. (2010). Quantification of pathogenic microorganisms and microbial indicators in three wastewater reclamation and managed aquifer recharge facilities in Europe. *The Science of the Total Environment*, 408(21), 4923–4930.

Niewersch, C., Meier, K., Wintgens, T. & Melin, T. (2010). Selectivity of polyamide nanofiltration membranes for cations and phosphoric acid. *Desalination*, 250(3), 1021–1024.

Page, D., Dillon, P., Toze, S., Bixio, D., Genthe, B., Jiménez Cisneros, B. E. & Wintgens, T. (2010). Valuing the subsurface pathogen treatment barrier in water recycling via aquifers for drinking supplies. *Water Research*, 44(6), 1841–1852.

2011

Ayuso-Gabella, N., Page, D., Masciopinto, C., Aharoni, A., Salgot, M. & Wintgens, T. (2011). Quantifying the effect of Managed Aquifer Recharge on the microbiological human health risks of irrigating crops with recycled water. *Agricultural Water Management*, 99(1), 93–102.

Bouju, H., Hommes, G., Wintgens, T., Malpei, F. & Corvini, P. F.-X. (2011). The fate of ¹⁴C-radiolabelled diclofenac and 4'-hydroxydiclofenac in membrane bioreactor treatment of wastewater. *Water Science and Technology*, 63(12), 2878–2885.

Buetehorn, S., Utiu, L., Küppers, M., Blümich, B., Wintgens, T., Wessling, M. & Melin, T. (2011). NMR imaging of local cumulative permeate flux and local cake growth in submerged microfiltration processes. *Journal of Membrane Science*, 371(1-2), 52–64.

Buetehorn, S., Volmering, D., Vossenkaul, K., Wintgens, T., Wessling, M. & Melin, T. (2011). CFD simulation of single- and multi-phase flows through submerged membrane units with irregular fiber arrangement. *Journal of Membrane Science*, 384(1-2), 184–197.

2012

Buetehorn, S., Brannock, M., Le-Clech, P., Leslie, G., Volmering, D., Vossenkaul, K., Wintgens, T., Wessling, M. & Melin, T. (2012). Limitations for transferring lab-scale microfiltration results to large-scale membrane bioreactor (MBR) processes. *Separation and Purification Technology*, 95, 202–215.

2013

Dvorak, L., J. Svojitka; J. Wanner, T. Wintgens (2013). Nitrification Performance in a membrane bioreactor treating industrial wastewater. *Water Research*, 47 (13), 4412-4421.

Rita Hochstrat , Philippe F. X. Corvini , Thomas Wintgens. MINOTAURUS: microorganism and enzyme immobilization: novel techniques and approaches for upgraded remediation of underground-, wastewater and soil. *Reviews in Environmental Science and Biotechnology*. Vol. 12/Issue 1, 1-4.

Gasser CA, Mucha M, Wintgens T, Shahgaldian P, Corvini PF-X (2013). Nanobiocatalytic Depolymerization of Lignin for the Production of Platform Phenolic Chemicals. *Chimia* 67:648-649. doi:10.2533/chimia.2013.648

2014

Jonas Löwenberg, Armin Zenker, Martin Baggenstos, Gerhard Koch, Christian Kazner, Thomas Wintgens (2014) Comparison of two PAC/UF processes for the removal of micropollutants from wastewater treatment plant effluent: Process performance and removal efficiency. *Water Research*, 56, 26-36.

C. Kazner, S. Jamil, S. Phuntsho, H. K. Shon, T. Wintgens and S. Vigneswaran (2014) Forward osmosis for the treatment of reverse osmosis concentrate from water reclamation: process performance and fouling control. *Water Science & Technology* 69, 2431–2437.

Christoph A. Gasser, Liang Yu, Jan Svojitka, Thomas Wintgens , Erik M. Ammann , Patrick Shahgaldian , Philippe F.-X. Corvini , Gregor Hommes (2014) Elimination of phenolic contaminants in wastewater: a nano approach at field scale. *Applied Microbiology and Biotechnology*. Vol. 98/Issue 7, 3305-3316.

Yannick-Serge Zimmermann, Claudia Niewersch, Markus Lenz, Zöhre Zohra Kül, Philippe F.-X. Corvini, Andreas Schäffer, and Thomas Wintgens (2014) Recycling of Indium From CIGS Photovoltaic Cells: Potential of Combining Acid-Resistant Nanofiltration with Liquid–Liquid Extraction. *Environ. Sci. Technol.*, 48 (22), 13412–13418.

2015

Therese Schütte, Claudia Niewersch, Thomas Wintgens, Süleyman Yüce (2015) Phosphorus recovery from sewage sludge by nanofiltration in diafiltration mode. *Journal of Membrane Science*, Volume 480, 74-82.

Jonas Löwenberg, Jörn Ansgar Baum, Yannick-Serge Zimmermann, Cornelis Groot, Wilbert van den Broek, Thomas Wintgens (2015) Comparison of pre-treatment technologies towards improving reverse osmosis desalination of cooling tower blow down. *Desalination*, Volume 357, 2, 140-149.

2016

Helene Bouju, Peter Nastold, Birgit Beck, Juliane Hollender, Philippe F.-X. Corvini, Thomas Wintgens (2016) Elucidation of biotransformation of diclofenac and 4'-hydroxydiclofenac during biological wastewater treatment. *Journal of Hazardous Materials*. Volume 301, 443–452.

Jonas Löwenberg, Armin Zenker, Thérèse Krahnstöver, Marc Boehler, Martin Baggenstos, Gerhard Koch, Thomas Wintgens (2016) Upgrade of deep bed filtration with activated carbon dosage for compact micropollutant removal from wastewater in technical scale. *Water Research*, Volume 94, 246-256.

Thérèse Krahnstöver, Julia Plattner, Thomas Wintgens (2016) Quantitative detection of powdered activated carbon in wastewater treatment plant effluent by thermogravimetric analysis (TGA). *Water Research*, Volume 101, 510-518.

2017

Julia Plattner, Christian Kazner, Gayathri Naidu, Thomas Wintgens, Saravanamuthu Vigneswaran (2017) Removal of selected pesticides from groundwater by membrane distillation. *Environmental Science and Pollution Research*.

Julia Plattner, Gayanthri Naidu, Thomas Wintgens, Saravanamuthu Vigneswaran, Christian Kazner (2017) Fluoride removal from groundwater using direct contact membrane distillation (DCMD) and vacuum enhanced DCMD (VEDCMD). *Separation and Purification Technology*, Volume 180, 125-132.

Jan Svojitka, Lukáš Dvořák, Martin Studer, Jürg Oliver Straub, Heinz Frömelt, Thomas Wintgens (2017) Performance of an anaerobic membrane bioreactor for pharmaceutical wastewater treatment. *Bioresource Technology*, Volume 229, 180-189

Books

Kazner, C., Wintgens, T. & Dillon, P. (Eds.). (2012). *RECLAIM WATER - Advances in Water Reclamation Technologies for Safe Managed Aquifer Recharge*. London UK: IWA Publishing. ISBN 9781843393443

Rita Hochstrat, Thomas Wintgens, Philippe Corvini (Eds.) (2015). *Immobilised Biocatalysts for Bioremediation of Groundwater and Wastewater*. London UK: IWA Publishing. ISBN 9781780406459

Thomas Wintgens, Anders Nättorp, Lakshmanan Elango, Shyam R. Asolekar. *Natural Water Treatment Systems for Safe and Sustainable Water Supply in the Indian Context*: Saph Pani. IWA Publishing, 2015, DOI: 10.2166/9781780407111