

# Water Science and Technology

Volume 58, Number 9

## Contents

- 1707 Combination of photo-Fenton and biological SBBR processes for sulfamethoxazole remediation  
**O. González, M. Esplugas, C. Sans and S. Esplugas**
- 1715 Sustainable nitrogen removal from wastewater with the hybrid membrane biofilm process (HMBP): bench-scale studies  
**Leon S. Downing and Robert Nerenberg**
- 1721 Critical analysis of PCDD/F emissions from anaerobic digestion  
**E. C. Rada and M. Ragazzi**
- 1727 Innovative phosphorus distribution method to achieve advanced chemical phosphorus removal  
**S. M. Scherrenberg, A. F. van Nieuwenhuijzen, H. W. H. Menkveld, J. J. M. den Elzen and J. H. J. M. van der Graaf**
- 1735 Anaerobic codigestion of the mechanically sorted organic fraction of a municipal solid waste with cattle manure in packed microcosms under batch conditions  
**L. Bertin, D. Todaro, C. Bettini and F. Fava**
- 1743 Energy potential of anaerobic digestion of solid wastes generated in the Russian Federation  
**S. V. Kalyuzhnyi**
- 1749 Heterotrophic denitrification on granular anammox SBR treating urban landfill leachate  
**M. Ruscalleda, H. López, R. Ganigué, S. Puig, M. D. Balaguer and J. Colprim**
- 1757 High-solids anaerobic digestion: comparison of three pilot scales  
**J. Guendouz, P. Buffière, J. Cacho, M. Carrère and J.-P. Delgenes**
- 1765 Ozone disinfection with the HiPOX™ reactor: streamlining an "old technology" for wastewater reuse  
**Cari Ishida, Andrew Salveson, Keel Robinson, Reid Bowman and Shane Snyder**
- 1775 Volatile organic silicon compounds: the most undesirable contaminants in biogases  
**Aurélie Ohannessian, Valérie Desjardin, Vincent Chatain and Patrick Germain**
- 1783 A comprehensive method for organic matter characterization in solid wastes in view of assessing their anaerobic biodegradability  
**Pierre Buffiere, Sylvain Frederic, Bruno Marty and Jean-Philippe Delgenes**
- 1789 Improvement in the removal of micropollutants at Porto Marghera industrial wastewaters treatment plant by MBR technology  
**S. Cattaneo, F. Marciano, L. Masotti, G. Vecchiato, P. Verlicchi and C. Zaffaroni**

- 1797 The use of GIS and multi-criteria evaluation (MCE) to identify agricultural land management practices which cause surface water pollution in drinking water supply catchments  
**Richard Grayson, Paul Kay and Miles Foulger**
- 1803 Detection and identification of degradation products of sulfamethoxazole by means of LC/MS and  $-MS^n$  after ozone treatment  
**M. N. Abellán, W. Gebhardt, H. Fr. Schröder**
- 1813 Sink or source? -The effect of hydrology on phosphorus release in the cultivated riverine wetland Spreewald (Germany)  
**O. Gabriel, D. Balla, T. Kalettka and S. Maassen**
- 1823 Use of RNA-based genotypic approaches for quantification of viable but non-culturable *Salmonella* sp. in biosolids  
**T. Dunaev, S. Alanya and M. Duran**
- 1829 Grid size effects on a distributed water quantity-quality model in a hilly watershed  
**Binaya Raj Shivakoti, Shigeo Fujii, Suwanna Kitpati Boontanon, Hirotaka Ihara, Masashi Moriya and Shuhei Tanaka**
- 1837 Using MF-NF-RO train to produce low salt and high nutrient value recycled water for agricultural irrigation  
**L. Zou, P. Sanciolo and G. Leslie**
- 1841 Energy balance and cost-benefit analysis of biogas production from perennial energy crops pretreated by wet oxidation  
**H. Uellendahl, G. Wang, H. B. Møller, U. Jørgensen, I. V. Skiadas, H. N. Gavala and B. K. Ahring**
- 1849 Comparative investigation on the impact of polymeric substances on membrane fouling during sub-critical and critical flux operation of a municipal membrane bioreactor  
**S. Lyko, T. Wintgens and T. Melin**
- 1857 Biogas from energy crops—optimal pre-treatments and storage, co-digestion and energy balance in boreal conditions  
**M. Seppälä, T. Paavola, A. Lehtomäki, O. Pakarinen and J. Rintala**
- 1865 Climate change impact on water balance of Lake Balaton  
**Béla Nováky**
- 1871 Anaerobic digestion of residues from production and refining of vegetable oils as an alternative to conventional solutions  
**M. Torrijos, Arun Kumar Thalla, P. Sousbie, F. Bosque and J. P. Delgenès**
- 1879 Dairy washwater treatment using a horizontal flow biofilm system  
**E. Clifford, M. Rodgers and D. de Paor**