



## Papers published in international journals

1. P. Battistoni, C. Morini, P. Pavan, F. Latini. (1999). "The retrofitting of an extended aeration process to optimise biological nitrogen removal in liquid industrial wastes". *Environ. Techn.* 20, 563 – 573.
2. P. Llabres, P. Pavan, P. Battistoni, F. Cecchi, J. Mata Alvarez, (1999). "The use of organic fraction of municipal solid waste hydrolysis products for biological nutrient removal in wastewater treatment plants". *Water Research*, 33 (1), 214 –222.
3. P. Battistoni, P. Pavan, M. Prisciandaro and F. Cecchi. (2000). "Struvite crystallization: a feasible and reliable way to fix phosphorus in anaerobic liquors". *Water Research*, 34(11), 3033-3041.
4. P. Pavan, P. Battistoni, J. Mata Alvarez, F. Cecchi. (2000). "Performance of thermophilic semi-dry anaerobic digestion process changing the feed biodegradability". *Wat. Sci. Techn.*, 41(3), 75-81.
5. P. Pavan, P. Battistoni, D. Bolzonella, L. Innocenti, P. Traverso and F. Cecchi (2000). "Integration of wastewater and OFMSW treatment cycles: from pilot scale to industrial realization. The new full scale plant of Treviso (Italy)". *Wat. Sci. Techn.*, 41 (12), pp 165-173.
6. P. Battistoni, A. De Angelis, P. Pavan, M. Prisciandaro and F. Cecchi. (2001). Phosphorus removal from a real anaerobic supernatant. *Water Research*. 35(9), 2167-2178.
7. P. Battistoni, R. Boccadoro, D. Bolzonella, S. Pezzoli. (2001). Optimization of chemical and physical pretreatments in a platform for the treatment of liquid industrial wastes. *Ind. Eng. Chem. Res.*, 40 (21), 4506-4512.
8. P. Battistoni, R. Boccadoro, P. Pavan, D. Bolzonella. (2002) "The monitoring of two steps aerobic-anoxic process with separate biomass to enhance performance in the treatment of liquid industrial wastes". *Environ. Technol.*, 23, 73-84.
9. P. Battistoni, A. De Angelis, M. Prisciandaro, R. Boccadoro, D. Bolzonella. (2002). P Removal from anaerobic supernatants by struvite crystallization: long term validation and process modelling. *Wat. Res.* 36 (8), 1927-1938.
10. Paolo Battistoni, Raffaella Boccadoro, Laura Innocenti and David Bolzonella. (2002). Addition of an external carbon source to enhance nitrogen biological removal in the treatment of liquid industrial wastes. *Ind. Eng. Chem. Res.* 41 (11) , 2805-2811.
11. P. Battistoni, S. Pezzoli, D. Bolzonella, P. Pavan. (2002) The AF-BNR-SCP process as a way to reduce global sludge production: comparison with classical approaches on a full scale basis. *Wat. Sci. Techn.* Vol 46 No 10 pp 89-96.
12. P. Battistoni, A. De Angelis, R. Boccadoro, D. Bolzonella, (2003).; An automatically controlled alternate oxic-anoxic process for small municipal wastewater treatment plants. *Ind. and Eng. Chem. Res.*, 42 (3), 509-515.
13. P. Battistoni, R. Boccadoro, D. Bolzonella, M. Marinelli, (2004). An alternate oxic-anoxic process automatically controlled. Theory and practice in a real treatment plant network. *Wat Sci Tech.* 48 (11-12), 337-344.
14. P. Battistoni, "Phosphorus recovery trial in Treviso (Italy)" Cap. 18 In: "Phosphorus in environmental technology, Ed. E. Valsami-Jones "IWA Publishing", JHune 2004 – ISBN1843390019.
15. Cecchi F., Battistoni P., Pavan., Bolzonella D., Innocenti L. (2004). "Anaerobic digestion". In *Guidelines for the design, production and running of high technology plant for the disposal of urban waste*. Geva Editions, Rome, Italy, pp. 89-114.
16. Battistoni P., Boccadoro R., Fatone F., Pavan P. (2005) Auto-nucleation and crystal growth of struvite in a demonstrative fluidized bed reactor (FBR). *Environmental Technology* 2005, 26 (9), pp 975 – 982. Selper Ltd, London, ISSN 0959-3330.

17. Battistoni P., Paci B., Fatone F., Pavan P. (2005) Phosphorus removal from supernatants at low concentration using packed and fluidized bed reactors. *Industrial Engineering and Chemistry Research*. 44, pp 6701 – 6707. American Chemical Society, Washington, ISSN 0888-5885.
18. Battistoni P., Carniani E., Fratesi V., Balboni P., Tornabuoni P., (2006), "Chemical Physical pretreatment of phosphogypsum leachate" *Industrial Engineering and Chemistry Research*. 45, 3237 – 3242.
19. Battistoni P., Cola E., Fatone F., Bolzonella D., Eusebi A.L. (2007). Micropollutants removals and operating strategies in ultrafiltration membrane systems for municipal wastewater treatment: preliminary results. *Industrial and Engineering Chemistry Research*. 46(21),6716-6723.
20. Battistoni P., F. Fatone, Cola E., Pavan P. (2008) Alternate Cycles Process for Municipal WWTPs Upgrading: Ready for Widespread Application? *Ind. Eng. Chem. Res.*, 47 (13), 4387–4393, 2008.
21. Nardelli P., Gatti G., Eusebi A. L., Battistoni P, Cecchi F. Full scale Application of the Alternate Oxidation/Anoxic Process: an overview, *Ind. Eng. Chem. Res.*, 2009, 48 (7), 3526-3532.
22. Paolo Nardelli<sup>1</sup>, Enrico Maria Battistoni<sup>3</sup>, Anna Laura Eusebi<sup>2\*</sup>, Paolo Battistoni<sup>2</sup>, (2011) Best Management Practices in Wastewater Treatment in Italian Country: the Territorial Approach of the Autonomous Province of Trento, *Journal of water sustainability*, 1 (1), pp 22-32
23. Eusebi, Santini, De Angelis, Battistoni, 2011, MBR and alternate cycles processes: advanced technologies for liquid wastes treatment. *Chemical Engineering Transactions*, (17) ISSN 1974-979, 239-244.
24. C. Troiani, A.L. Eusebi  , P. Battistoni, Excess sludge reduction by biological way: From experimental experience to a real full scale application, *Bioresource Technology* 2011, 102(22),10352 – 10358.
25. Eusebi A.L., Massi A., Sablone E., Santinelli M., Battistoni P. 2012 Industrial wastewater platform: upgrading of the biological process and operative configurations for best performances. *Water Science Technology* 65(4), 721-727.
26. Santinelli M.; Eusebi, A.; Santini, M.; Battistoni, P. (2013) Struvite crystallization for anaerobic digested supernatants: influence on the ammonia efficiency of the process variables and the chemicals dosage modality. *Chemical Engineering Transactions*, 32, pp. 2047-2052, ISSN 1974-979
27. Eusebi, A.L., Battistoni, P., 2014. Air diffusers behaviour and oxygen transfer efficiencies in the biological treatment of matrices at high alkalinity concentrations: experimental and full scale application. *Chemical Engineering Journal*, 255, 274-281
28. Eusebi, A.L., Santinelli, M., Battistoni, P. 2015. Production of nitrogen oxide gases from an oxic/anoxic process via nitrite: Influence of liquid parameters and impact on mass balance. *Environmental Technology*, 36 (10), 1213-1222.
29. Eusebi, A.L., Battistoni, P. 2015, Reduction of the excess sludge production by biological alternating process: real application results and metabolic uncoupling mechanism. *Environmental Technology*, 36 (2), 137-148.
30. Di Iaconi, Eusebi, De Sanctis, Battistoni, 2015, Two innovative biological approaches for sludge minimization from municipal wastewater treatment. In press in *Desalination and Water Treatment* DOI: 10.1080/19443994.2015.1066273
31. Eusebi, Panigutti, Battistoni, 2016, Reduction of biological sludge production applying an alternating oxic/anoxic process in water line. *Water Environment Research*, 88 (6) 483-9 1-8 DOI <http://dx.doi.org/10.2175/106143015X14212658614432>
32. A.L.Eusebi, T.Bellezze, G Chiappini, M. Sasso, P. Battistoni, Influence of aeration cycles on mechanical characteristics of elastomeric diffusers in biological intermittent processes: Accelerated tests in real environment; *Water Research* 117 (2017) 143-156.