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Expertise

Mustafa Evren Ersahin graduated as an environmental engineer from the Environmental Engineering Department of Trakya University in Turkey holding the first rank both in the department and faculty. He received his MSc degree from Department of Environmental Engineering at Istanbul Technical University. He has been working as a research assistant in the same department since 2005. After graduation he was involved in various research and development projects in the field of biological wastewater treatment, anaerobic biotechnology, biomethanization of municipal solid wastes, modeling of anaerobic processes and membrane processes. He also assisted different courses including water and wastewater treatment, design of water and wastewater treatment plants, probability and statistics. He is currently a joint PhD researcher at the Sanitary Engineering Section, Delft University of Technology and Environmental Engineering Department, Istanbul Technical University. His PhD study focuses on Anaerobic Membrane Bioreactors under the supervision of Prof. Jules B. van Lier.

Key Papers related to the COST action

1. **Ersahin, M.E.**, Dereli, R.K., Insel, G., Ozturk, İ., Kinaci, C. (2007). Model based evaluation for the anaerobic treatment of corn processing wastewaters, *Clean-Soil Air Water*, 35(6), 576-581.
2. Aydin, A.F., **Ersahin, M.E.**, Dereli, R.K., Sarikaya, H.Z., Ozturk, I. (2010). Long-term anaerobic treatability studies on opium alkaloids industry effluents, *Journal of Environmental Science and Health, Part A*, 45(2), 192-200.
3. Dereli, R.K., **Ersahin, M.E.**, Ozgun, H., Ozturk, I., Aydin, A.F. (2010). Applicability of Anaerobic Digestion Model No. 1 (ADM1) for a specific industrial wastewater: Opium alkaloid effluents, *Chemical Engineering Journal*, 165(1), 89–94.
4. **Ersahin M.E.**, Gomec, C.Y., Dereli R.K., Arikan, O., Ozturk, I. (2011). Biomethane production as an alternative bioenergy source from codigesters treating municipal sludge and organic fraction of municipal solid wastes, *Journal of Biomedicine and Biotechnology*, 2011, Article ID 953065.
5. **Ersahin, M.E.**, Ozgun, H., Dereli, R.K., Ozturk, I., Roest, K., van Lier, J.B. (2012). A review on dynamic membrane filtration: Materials, applications and future perspectives, *Bioresource Technology*, 122, 196-206.
6. Dereli, R.K., **Ersahin, M. E.**, Ozgun, H., Ozturk, I., Jeison, D., van der Zee, F., van Lier, J.B. (2012). Potentials of anaerobic membrane bioreactors to overcome treatment limitations induced by industrial wastewaters, *Bioresource Technology*, 122, 160-170.
7. Ozgun, H., Dereli, R.K., **Ersahin, M.E.**, Kinaci, C., Spanjers, H., van Lier, J.B. (2013). A review of anaerobic membrane bioreactors for municipal wastewater: Integration options, limitations and expectations, *Separation and Purification Technology*, 118, 89-104.
8. Ozgun, H., **Ersahin, M.E.**, Tao, Y., Spanjers, H., van Lier, J.B. (2013). Effect of upflow velocity on the effluent membrane fouling potential in membrane coupled upflow anaerobic sludge blanket reactors, *Bioresource Technology*, 147, 285-292.
9. **Ersahin, M.E.**, Ozgun, H., van Lier, J.B. (2013). Effect of support material properties on dynamic membrane filtration performance, *Separation Science and Technology*, 48(15), 2263-2269.
10. **Ersahin, M.E.**, Ozgun, H., Tao, Y., van Lier, J.B. (2014). Applicability of dynamic membrane technology in anaerobic membrane bioreactors *Water Research*, 48, 420-429.