

Dr. Katerina Stamatelatou

Assistant Professor
Democritus University of Thrace
Polytechnic School
Department of Environmental Engineering
Laboratory of Wastewater treatment and management technologies
Vas Sofias 12, 67100 Xanthi, Greece
E-mail: astamat@env.duth.gr
Tel: 0030 2541079315



Expertise

Dr. Katerina Stamatelatou has been an assistant professor in “Environmental Technology” since 2010. She is a chemical engineer, graduated from University of Patras, Greece. She received her PhD in Chemical Engineering (“Optimisation of anaerobic bioreactors”) and continued her research in the Department of Chemical Engineering of University of Patras on bioprocessing in Environmental Technology, collaborating with prof G. Lyberatos (her PhD supervisor). She is currently working on kinetics of the fermentation metabolism and design of anaerobic processes for biogas production from food wastes.

Key papers related to the Cost Action

1. **K. Stamatelatou**, K. Dravillas and G. Lyberatos, (2003), “Methane production from sweet sorghum residues via a two-stage process” *Water Science & Technology*, **48 (4)**, 235–238
2. Fountoulakis, M.S., **Stamatelatou, K.**, Batstone, D.J., Lyberatos, G. (2006). Simulation of DEHP biodegradation and sorption during the anaerobic digestion of secondary sludge. *Water Science and Technology*, **54 (4)**, pp. 119-128.
3. Kalfas, H., Skiadas, I.V., Gavala, H.N., **Stamatelatou, K.**, Lyberatos, G. (2006). Application of ADM1 for the simulation of anaerobic digestion of olive pulp under mesophilic and thermophilic conditions. *Water Science and Technology*, **54 (4)**, pp. 149-156.
4. G. Antonopoulou, **K. Stamatelatou**, N. Venetsaneas, M. Kornaros and G. Lyberatos (2008). "Biohydrogen and methane production from cheese whey in a two –stage anaerobic process", *Industrial & Engineering Chemistry Research* **47(15)**, 5227-5233.
5. Ntaikou, C. Kourmentza, E.C. Koutrouli, **K. Stamatelatou**, A. Zampraka, M. Kornaros and G. Lyberatos (2009) “Exploitation of olive oil mill wastewater for combined biohydrogen and biopolymers production” *Bioresource Technology*, **100**, 3724-3730.
6. E.C. Koutrouli, H. Kalfas, H.N. Gavala, I.V. Skiadas, **K. Stamatelatou** and G. Lyberatos (2009). «Hydrogen and methane production through two-stage mesophilic anaerobic digestion of olive pulp». *Bioresource Technology*, **100**, 3718-3723.
7. **K. Stamatelatou**, A. Kopsahelis, P.S. Blika, C.A. Paraskeva and G. Lyberatos (2009) «Anaerobic digestion of olive mill wastewater in a periodic anaerobic baffled reactor (PABR) followed by further effluent purification via membrane separation technologies». *Chemical Technology and Biotechnology*, **84**, 909-917
8. Dareioti, M.A., Dokianakis, S.N., **Stamatelatou, K.**, Zafiri, C., Kornaros, M. (2010). “Exploitation of olive mill wastewater and liquid cow manure for biogas production”, *Waste Management*, **30**, 1841–1848.
9. Antonopoulou, G., **Stamatelatou, K.**, Lyberatos, G. (2010). “Exploitation of rapeseed and sunflower residues for methane generation through anaerobic digestion: The effect of pretreatment”, *Chemical Engineering Transactions*, **20**, 253-258.
10. **K. Stamatelatou**, G. Antonopoulou, A. Tremouli and G. Lyberatos (2011). “Production of gaseous biofuels and electricity from cheese whey”, *Industrial and Engineering Chemistry Research*, **50 (2)**, 639-644.
11. V. Diamantis, A. Khan, S. Ntougias, **K. Stamatelatou**, A.G. Kapagiannidis and A. Aivasidis (2013). “Continuous biohydrogen production from fruit wastewater at low pH conditions”. *Bioprocess and biosystems engineering*, **36**, 965-974.
12. C.S.K. Lin, L.A. Pfaltzgraff, L. Herrero-Davila, E.B. Mubofu, S. Abderrahim, J.H. Clark, A.A. Koutinas, N. Kopsahelis, **K. Stamatelatou**, F. Dickson, S. Thankappan, Z. Mohamed, R. Brocklesby and R. Luque (2013). “Food waste as a valuable resource for the production of chemicals, materials and fuels. Current situation and global perspective”, *Energy Environ. Sci.*, **6**, 426-464.