

CURRICULUM VITAE

Dr. Fountoulakis Michail, Chemical Engineer
Associate Professor, School of Chemical and Environmental
Engineering, Technical University of Crete

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PERSONAL DETAILS

Date of birth: 12/01/1978
Place of birth: Heraklion, Crete
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EDUCATION

Post-Doctoral Research, Department of Agriculture, Hellenic Mediterranean University, Heraklion, Greece (2008)

Ph.D, Department of Chemical Engineering, University of Patras, Greece (2005)

Diploma, Department of Chemical Engineering, University of Patras, Greece (2001)

PROFESSIONAL ACTIVITY

2018-up to date Associate Professor, School of Chemical and Environmental Engineering, Technical University of Crete, Chania, Greece

2018-2024 Assistant Professor, Department of Environment, University of the Aegean, Mytilene, Greece

2006-2017 Researcher, Department of Agriculture, Hellenic Mediterranean University, Heraklion, Greece

TRAINING

05/2022-07/2022 «Center of Microbial Ecology and Technology, Faculty of Bioscience Engineering, University of Ghent, Belgium» sabbatical

03/2022-05/2022 « Department of Environmental Research and Innovation, Luxembourg Institute of Science and Technology, Luxembourg» sabbatical

03/2020 “Australian Centre for Water and Environmental Biotechnology”, University of Queensland, Australia», Erasmus+ staff training mobility

RESEARCH INTEREST

- Anaerobic digestion
- Use of microalgae and fungi for wastewater treatment
- Non-conventional (CWs, MBR, SBR, RBC) wastewater treatment systems
- Biofuels

- Composting

RESEARCH PROJECTS

More than 30 National and International (EEA Grants, LIFE, Interreg, FP7, Horizon) research projects about waste and wastewater treatment.

List of some projects:

1. From treated wastewater to alternative water resources in semi-arid region. (2010-2012) funded by EC (LIFE+, Environment)
2. Innovation Centre of Crete emphasizing the Management of Natural Resources (2011-2012) funded by EEA Grants
3. Operation and Monitoring of constructed wetlands treating domestic wastewater (2012-2013) funded by EU (FP7-MINOTAURUS)
4. Urban Development and Water Infrastructure: Towards innovative decentralized urban water management (2012-2015) funded by GSRT (THALIS-HYDROPOLIS)
5. Integrating bio-treated wastewater with enhanced water use efficiency to support the Green Economy in EU and India (2014-2016) funded by EU (FP7-WATER4CROPS)
6. Innovative solutions to climate change adaptation and governance in the water management of the Region of Crete – AQUAMAN (2016-2017) funded by EEA Grants
7. Demonstration of water loops with innovative regenerative business models for the Mediterranean region, HYDROUSA (2018-2022) funded by EU (Horizon 2020)
8. Centre of Sustainable and Circular Bioeconomy/Aegean-Bioeconomy (2020-2023) funded by Greek Government (NSRF 2014-2020)
9. Zero pollution of Persistent, Mobile substances, ZeroPM (2021-2025) funded by EU (Horizon 2020)
10. A Holistic Approach towards onsite hospital wastewater treatment/LIFE22-ENV-EL-HIPPOCRATES (2023-2027) funded by EU (LIFE+, Environment)

TEACHING

2018- 2024. Department of Environment, University of the Aegean:

- 1.«Restoration of polluted ecosystems»
2. «Environmental Biotechnology»
3. «Natural treatment systems»
4. «Ecological Engineering» master course

2007-2017. Department of Agriculture, Technological Educational Institute of Crete:

1. «Waste and wastewater treatment»
2. «Energy and agriculture»
3. «Agricultural waste management»

Supervision of more than 10 undergraduate and 5 postgraduate thesis

PUBLICATIONS

Scientific Journals

Peer review journals: 68

Conferences

- International 71

- National 5

CITATIONS

Citations

Scopus: 2704

Google scholar: 3939

Hirsch index

h-index: 28 (scopus); 32 (google scholar)

PATENTS

Inventor in European patent under Rule 19 (3) EPC, Title : Marine vessel based system and method of managing municipal solid waste.

REVIEWER OF THE SCIENTIFIC JOURNALS

1. Science of the Total Environment 2. Journal of Hazardous Materials, 3. Bioresource Technology, 4. Waste Management, 5. Water Research, 6., Resources, Conservation & Recycling 7. Waste and Biomass Valorization, 8. Biofuels, 9. Biomass & Bioenergy, 10. Journal of Environmental Management

LIST OF PUBLICATIONS

Journals with peer review

1. Fountoulakis M., Dokianakis S., Kornaros M., Aggelis, G.G., Lyberatos G. (2002) Removal of phenolics in olive mill wastewaters using the white-rot fungus *Pleurotus ostreatus*. *Water Research*. **36**, 4735-4744.
2. Stamatelatou K., Frouda C., Fountoulakis M.S., Drillia P., Kornaros M. and Lyberatos G., (2003), "Pharmaceuticals and health care products in wastewater effluents: the example of carbamazepine", *Water Supply*, **3 (4)**, 131–13.
3. Fountoulakis M., Drillia P., Stamatelatou K, Lyberatos G, Toxic Effect of pharmaceuticals on methanogenesis. (2004) *Water Science and Technology*. **50(5)**, 335-340.
4. Fountoulakis M., Drillia P., Pakou C., Kampioti A., Stamatelatou K. and Lyberatos G. (2005). Analysis of Nonylphenol and Nonylphenol Ethoxylates in sewage sludge by HPLC following Microwave-Assisted Extraction. *Journal of Chromatography A*, **1089(1)**, 45-51.

5. Fountoulakis, M., Stamatelatou, K. and Lyberatos, G. (2005) "Simulation of DEHP biodegradation and sorption during the anaerobic digestion of secondary sludge". *Water Science and Technology* **54**(4), 119-128.
6. Drillia P, S.N. Dokianakis, M.S. Fountoulakis, M. Kornaros, K. Stamatelatou and G.Lyberatos. (2005). On the occasional biodegradation of pharmaceuticals in the activated sludge process: The example of the antibiotic sulfamethoxazole. *Journal of Hazardous Materials*, **122**(3), 259-265.
7. Pakou C., Fountoulakis M., Drillia P., Kampioti A., Stamatelatou K. and Lyberatos G. (2007). Occurrence and fate of polycyclic aromatic hydrocarbons in sewage treatment plants using microwave-assisted extraction followed by liquid chromatography coupled with fluorescence detector. *Fresenius Environmental Bulletin*, **16**(2), 1-6.
8. Dokianakis S., Fountoulakis M., Kornaros M., Lyberatos G. (2007). Biological wastewater treatment for ships equipped with vacuum sewage systems. *Fresenius Environmental Bulletin*. **16**(12),
9. Fountoulakis M., Drakopoulou S., Terzakis S., Georgaki I. and T. Manios. (2008). Potential for methane production from typical Mediterranean agro-industrial wastes. *Biomass & Bioenergy*, **32**, 155-161.
10. Fountoulakis M., Stamatelatou K., and G. Lyberatos. (2008). The effect of pharmaceuticals on the kinetics of methanogenesis and acetogenesis. *Bioresource Technology*, **99**, 7083-7090.
11. Terzakis S., Fountoulakis M., Georgaki I., Albantakis D., Sabathianakis I., Karathanasis A. and T. Manios. (2008). Constructed wetlands treating highway runoff in the central Mediterranean region. *Chemosphere*, **72**, 141-149.
12. Fountoulakis M., Terzakis S., Georgaki I, Drakopoulou S., Sabathianakis I., Kouzoulakis M. and T. Manios. (2008). Oil refinery sludge and green waste simulated windrow composting. *Biodegradation*, **20** (2) 177-189.
13. Kyriacou, A., Drakopoulou, S., Georgaki, I., Fountoulakis, M., Mitsou, E., Lasaridi, K.E., Manios, Y., Manios, T. (2009). Screening for faecal contamination in primary schools in Crete, Greece. *Child: Care, Health Development*, **35** (2) 159-163.
14. Drakopoulou, S., Terzakis, S., Fountoulakis, M., Mantzavinos, D., Manios, T. (2009). Ultrasound-induced inactivation of gram-negative and gram-positive bacteria in secondary treated municipal wastewater. *Ultrasonic Sonochemistry*, **16** (5), 629-634.
15. Manios, T., Fountoulakis, M., Karathanassis A.D. (2009) Construction simplicity and cost as selection criteria between two types of constructed wetlands treating highway runoff. *Environmental Management*, **43**, 908-920.

16. Fountoulakis, M.S., Terzakis, S., Chatzinotas, A., Brix, H., Kalogerakis, N., Manios, T. (2009) Pilot scale comparison of constructed wetlands operated under high hydraulic loading rates and attached biofilm reactors for domestic wastewater treatment. *Science of the Total Environment*, **407** (8), 2996-3003
17. Fountoulakis, M.S., Manios, T. (2009) Enhanced methane and hydrogen production from municipal solid waste and agro-industrial by-products co-digested with crude glycerol. *Bioresource Technology*, **100** (12), 3043-3047.
18. Fountoulakis, M.S., Terzakis, S., Kalogerakis, N., Manios, T. (2009) Removal of polycyclic aromatic hydrocarbons and linear alkylbenzene sulfonates from domestic wastewater in pilot constructed wetlands and a gravel filter. *Ecological Engineering*, **35**, 1702-1709.
19. Fountoulakis, M.S., Makridis, L., Pirounaki, E.K., Chroni, C. Kyriacou, A., Lasaridi, K., Manios, T. (2010) Fate and effect of Linuron and Metribuzin on the co-composting process of green waste and sewage sludge. *Waste Management*, **30**, 41-49.
20. Fountoulakis, M.S., I. Petousi, Manios, T. (2010) Co-digestion of sewage sludge with glycerol to boost biogas production. *Waste Management*, **30**, 1849-1853.
21. Lasaridi, K., Katsabanis, G., Kyriacou, A., Maggos, T., Manios, T., Fountoulakis, M., Kalogerakis, N., Stentiford, E.I. (2010) Assessing odour nuisance from wastewater treatment and composting facilities in Greece. *Waste Management & Research*, **28**, 977-984.
22. Terzakis, S., Chatzinotas, A., Papageorgiou, N., Fountoulakis, M., Manios, T., Kalogerakis, N. 2010. Comparison of nitrifying, denitrifying, and overall microbial communities in two constructed wetlands and two compact attached biomass reactors treating domestic wastewater. *Journal of Biotechnology*, **150S**, 38.
23. Petousi, I., Stavroulaki, N., Fountoulakis, M.S., Papadimitriou, M., Stentiford, E.I., Manios, T. (2013) Application of treated wastewater for cultivations of carnations. *Water Practice Technology*, **8**, 457-460.
24. Petousi I., Fountoulakis M.S., Tzortzakis N., Dokianakis, S., Stentiford, I., Manios T. (2014) Occurrence of micro-pollutants in a soil-radish system irrigated with several types of treated domestic wastewater. *Water, Air & Soil Pollution*, **225**, 1791-1798.
25. Fountoulakis, M.S., Dokianakis, S.N., Daskalakis, G., Manios, T. (2014) Fermentative Hydrogen Production from Carob Pod: A Typical Mediterranean Forest Fruit. *Waste & Biomass Valorization*, **5**, 799-805.

26. Petousi I., Fountoulakis M.S., Saru M.L., Nikolaidis N., Fletcher, L., Stentiford, I., Manios T. (2015) Effects of reclaimed wastewater irrigation on olive (*Olea europaea* L. cv. 'Koroneiki') trees. *Agricultural Water Management*, **160**, 33-40.
27. Petousi, I., Fountoulakis, M.S., Stentiford, E.I., Manios, T. (2015). Farmers' Experience, Concerns and Perspectives in Using Reclaimed Water for Irrigation in a Semi-Arid Region of Crete, Greece. *Irrigation and Drainage*, **64**, 647-654.
28. Markakis, M., Fountoulakis, M.S., Daskalakis, G., Kokkinis, M., Ligoxigakis, E.K. (2016). The suppressive effect of compost amendments on *Fusarium oxysporum f.sp. radices-cucumerinum* in cucumber and *Verticillium dahliae* in eggplant. *Crop Protection*, **79**, 70-79.
29. Fountoulakis, M.S., Petousi, I., Markakis, N., Manios, T. (2016). Single house on-site grey water treatment using a submerged membrane bioreactor for toilet flushing. *Science of the total Environment*, **551-552**, 706-711.
30. Maragkaki, A.E., Fountoulakis, M. Gypakis, A., Kyriakou, A., Lasaridi, K., Manios T. (2016) Pilot-scale anaerobic co-digestion of sewage sludge with agro-industrial by-products for increased biogas production of existing digesters at wastewater treatment plants. *Waste Management*, **59**, 362-370.
31. Fountoulakis, M.S., Sabathianakis, G., Kritsotakis, I., Kabourakis, E.M., Manios, T. (2017). Halophytes as vertical-flow constructed wetland vegetation for domestic wastewater treatment. *Science of the total Environment*, **583**, 432-439.
32. Fountoulakis, M.S., Daskalakis, G., Papadaki, A., Kalogerakis, N., Manios, T. (2017). Use of halophytes in pilot-scale horizontal flow constructed wetland treating domestic wastewater. *Environmental Science and Pollution Research* **24**(20), 16682-16689
33. Maragkaki, A.E., Fountoulakis, M., Kyriakou, A., Lasaridi, K., Manios, T. (2018). Boosting biogas production from sewage sludge by adding small amount of agro-industrial by-products and food waste residues. *Waste Management*, **71**, 605-611
34. Maragkaki, A.E., Vasileiadis, I., Fountoulakis, M., Kyriakou, A., Lasaridi, K., Manios, T. (2018). Improving biogas production from anaerobic co-digestion of sewage sludge with a thermal dried mixture of food waste, cheese whey and olive millwastewater. *Waste Management*. **71**, 644–651.
35. Galliou, F., Markakis, N., Fountoulakis, M.S., Nikolaidis, N., Manios, T. (2018). Production of organic fertilizer from olive mill wastewater by combining solar greenhouse drying and composting. *Waste Management*, **75**, 305-311.
36. Petousi, I., Daskalakis, G., Fountoulakis, M.S., Lydakakis, D., Fletcher, L., Stentiford, E.I., Manios, T. (2019). Effects of treated wastewater irrigation on the

- establishment of young grapevines. *Science of the Total Environment*, 658, 485-492.
37. Demetropoulou, L., Lilli, M.A., Petousi, I., Nikolaou, T., Fountoulakis M., Kritsotakis, M., Panakoulia, S., Giannakis, G., Manios, T., Nikolaidis, N.P. (2019). Innovative methodology for the prioritization of the Program of Measures for integrated water resources management of the Region of Crete, Greece. *Science of the Total Environment*, 672, 61-70.
 38. Kora, E., Theodoulou, D., Gatidou, G., Fountoulakis, M.S., Stasinakis, A.S. 2020 Removal of polar micropollutants from domestic wastewater using a methanogenic – aerobic moving bed biofilm reactor system. *Chemical Engineering Journal*, 2020, 382, 122983.
 39. Orfanoudaki, A., Makridakis, G., Maragkaki, A., Fountoulakis, M.S., Kallithrakas-Kontos, N.G., Manios, T. (2020). Anaerobic Co-digestion of Pig Manure and Spent Coffee Grounds for Enhanced Biogas Production. *Waste and Biomass Valorization*, 2020, 11(9), 4613–4620.
 40. Kotoula, D., Iliopoulou, A., Irakleous-Palaiologou, E., ...Fountoulakis, M.S., Stasinakis, A.S. (2020). Municipal wastewater treatment by combining in series microalgae *Chlorella sorokiniana* and macrophyte *Lemna minor*: Preliminary results. *Journal of Cleaner Production*, 2020, 271, 122704.
 41. Kotsia, D., Deligianni, A., Fyllas, N.M., Stasinakis, A.S., Fountoulakis, M.S. (2020). Converting treatment wetlands into “treatment gardens”: Use of ornamental plants for greywater treatment. *Science of the Total Environment*, 2020, 744, 140889.
 42. Thanos, D., Maragkaki, A., Venieri, D., Fountoulakis, M., Manios, T. (2021). Enhanced Biogas Production in Pilot Digesters Treating a Mixture of Olive Mill Wastewater and Agro-industrial or Agro-livestock By-Products in Greece. *Waste and Biomass Valorization*, 2021, 12, 135–143.
 43. Zkeri, E., Iliopoulou, A., Katsara, A., ...Fountoulakis, M.S., Stasinakis, A.S. (2021). Comparing the use of a two-stage MBBR system with a methanogenic MBBR coupled with a microalgae reactor for medium-strength dairy wastewater treatment. *Bioresource Technology*, 2021, 323, 124629.
 44. Arvaniti, I. Fountoulakis, M.S. (2021). Use of a graphite-cement composite as electrode material in up-flow constructed wetland-microbial fuel cell for greywater treatment and bioelectricity generation. *Journal of Environmental Chemical Engineering*. 9(3), 105158
 45. Koutsou, O.P., Fountoulakis, M.S., Matsoukas, C., Fyllas, N.M., Stasinakis, A.S., 2021. Estimation of N₂O emissions from wastewater characteristics in constructed wetlands. *Journal of Environmental Chemical Engineering* 9, 106632.

46. Vakalis, S., Georgiou, A., Moustakas, K., Fountoulakis, M., 2022. Assessing the effect of hydrothermal treatment on the volatile solids content and the biomethane potential of common reed (*phragmites australis*). *Bioresource Technology Reports* 17, 100923
47. Thomaidi, V., Petousi, I., Kotsia, D., Kalogerakis, N., Fountoulakis, M.S., 2022. Use of green roofs for greywater treatment: Role of substrate, depth, plants, and recirculation. *Science of The Total Environment* 807, 151004.
48. Gatidou, G., Samanides, C.G., Fountoulakis, M.S., Vyrides, I., 2022. Microbial electrolysis cell coupled with anaerobic granular sludge: A novel technology for real bilge water treatment. *Chemosphere* 296, 133988.
49. Mastoras, P., Vakalis, S., Fountoulakis, M.S., Gatidou, G., Katsianou, P., Koulis, G., Thomaidis, N.S., Haralambopoulos, D., Stasinakis, A.S., 2022. Evaluation of the performance of a pilot-scale solar still for olive mill wastewater treatment. *Journal of Cleaner Production* 365, 132695.
50. Iliopoulou, A., Zkeri, E., Panara, A., Dasenaki, M., Fountoulakis, M.S., Thomaidis, N.S., Stasinakis, A.S. 2022. Treatment of different dairy wastewater with *Chlorella sorokiniana*: removal of pollutants and biomass characterization. *Journal of Chemical Technology and Biotechnology* 97, 3193–3201.
51. Petousi, I., Thomaidi, V., Kalogerakis, N., Fountoulakis, M.S. 2022. Removal of pathogens from greywater using green roofs combined with chlorination. *Environmental Science and Pollution Research*. 30, 22560-22569.
52. Arvaniti, O. S., Arvaniti, E.S., Gyparakis, S., Sabathianakis, I., Karagiannis, E., Pettas, E., Gkotsis, G., Nika, M.C., Thomaidis, N.S., Manios, T., Fountoulakis, M.S., Stasinakis, A.S. 2023. Occurrence of pharmaceuticals in the wastewater of a Greek hospital: Combining consumption data collection and LC-QTOF-MS analysis. *Science of The Total Environment* 858, 160153.
53. Sotiropoulou, M., Stefanatou, A., Schiza, S., Petousi, I., Stasinakis, A.S., Fountoulakis, M.S. 2023. Removal of microfiber in vertical flow constructed wetlands treating greywater. *Science of The Total Environment* 858, 159723.
54. Kaliakatsos, A., Gounaki, I., Dokianakis, S., Maragkaki, E., Stasinakis, A.S., Gyparakis, S., Katsarakis, N., Manios, T., Fountoulakis, M.S., Venieri, D. 2023. Treatment of hospital wastewater: emphasis on ecotoxicity and antibiotic resistance genes. *Journal of Chemical Technology & Biotechnology*.
55. Arvaniti, Olga S., Gkotsis, G., Nika, M.-C., Gyparakis, S., Manios, T., Thomaidis, N.S., Fountoulakis, M.S., Stasinakis, A.S. 2023. Study on the Occurrence of Artificial Sweeteners, Parabens, and Other Emerging Contaminants in Hospital Wastewater Using LC-QToF-MS Target Screening Approach. *Water (Switzerland)* 15, 936
56. Kalantzis, D., Daskaloudis, I., Lacoere, T., Stasinakis, A.S., Lekkas D., De Vrieze, J. Fountoulakis, M.S. 2023, Granular activated carbon stimulates biogas production in pilot-scale anaerobic digester treating agro-industrial wastewater. *Bioresource Technology*, 376, 128908

57. Stefanatou, A., Schiza, S., Petousi, I., Rizzo, A., Masi, F., Stasinakis, A.S., Fyllas, N., Fountoulakis, M.S. 2023. Use of climbing and ornamental plants in vertical flow constructed wetlands treating greywater. *Journal of Water Process Engineering*, 53, 103832

58. Papastefanakis, N., Daliakopoulos, I.N., Maragkaki, A.E., Tsompanidis, C., Zotos, N., Lekkas, D.-F., Manios, T., Fountoulakis, M.S. 2023. Application of solar drying as a pre-treatment method for storing wet feedstocks prior to use in anaerobic digesters: Effect on methane production and digestate composition. *Fuel*, 348, 128477
59. Iliopoulou A., Arvaniti, A.S., Deligiannis, M., Gatidou, G., Vyrides, I., Fountoulakis, M.S., Stasinakis, A.S. 2023. Combined use of strictly anaerobic MBBR and aerobic MBR for municipal wastewater treatment and removal of pharmaceuticals. *Journal of Environmental Management*, 343
60. Athanasiadou, V., Klontza, E.E., Dimitriou-Christidis, P., Fountoulakis, M., Lekkas, D-F. 2023. Evaluation of *Arthrospira* (*Spirulina*) *platensis* growth on cheese whey in the context of circular economy. *Sustainable Chemistry and Pharmacy*, 34
61. Koutsou, O.P., Mandylas, C., Fountoulakis, M.S., Stasinakis, A.S., 2023. Leachate management in medium- and small-sized sanitary landfills: a Greek case study. *Environmental Science and Pollution Research* 30, 120994–121006.
62. Mastoras, P., Zkeri, E., Panara, A., Dasenaki, M.E., Maragou, N.C., Vakalis, S., Fountoulakis, M.S., Thomaidis, N.S., Stasinakis, A.S., 2023. Application of a pilot-scale solar still for wine lees management: characterization of by-products and valorization potential. *J Environ Chem Eng* 11, 111227.
63. Stefanatou, A., Lagkadas, M., Petousi, I., Schiza, S., Stasinakis, A.S., Fyllas, N., Fountoulakis, M.S. 2024. Vertical flow constructed wetlands as green facades and gardens for on-site greywater treatment in buildings: Two-year mesocosm study on removal performance. *Science of The Total Environment* 906, 167362.
64. Stefanatou, A., Markoulatou, E., Koukmenidis, I., Vouzi, L., Petousi, I., Stasinakis, A.S., Rizzo, A., Masi, F., Akriotis, T., Fountoulakis, M.S., 2024. Use of ornamental plants in floating treatment wetlands for greywater treatment in urban areas. *Science of The Total Environment* 912, 169448.
65. Deligiannis, M., Gkalipidou, E., Gatidou, G., Kostakis, M.G., Triantafyllos Gerokonstantis, D., Arvaniti, O.S., Thomaidis, N.S., Vyrides, I., Hale, S.E., Peter Arp, H., Fountoulakis, M.S., Stasinakis, A.S., 2024. Study on the fate of per- and polyfluoroalkyl substances during thermophilic anaerobic digestion of sewage sludge and the role of granular activated carbon addition. *Bioresour Technol* 131013.
66. Fountoulakis, M.S., Frkova, Z., Lemaigre, S., Goux, X., Calusinska, M., Roussel, J., 2024. Enhancement of anaerobic digestion of dairy wastewater by addition of conductive materials with or without the combination of external voltage application. *Journal of Chemical Technology & Biotechnology*.

67. Kotsia, D., Sympikou, T., Topi, E., Pappa, F., Matsoukas, C., Fountoulakis, M.S., 2024. Use of recycled construction and demolition waste as substrate in constructed wetlands for the wastewater treatment of cheese production. *J Environ Manage* 362, 121324.
68. Stefanatou, A., Vouzi, L., Petousi, I., Koukoura, A., Gatidou, G., Stasinakis, A.S., Fountoulakis, M.S., 2024. Treatment of real laundry wastewater using vertical flow constructed wetland planted with the ornamental climbing plant *Trachelospermum jasminoides*: assessing the removal of conventional pollutants and benzotriazoles. *Environmental Science and Pollution Research* 31, 43281–43291.

Conferences

1. Lyberatos, G., Dokianakis, S., Fountoulakis, M., Kornaros M., Karantzis K. and E. Polychronopoulou. (2001) “*Biological Treatment of sewage from ships using SBR technology*”, Oral presentation at the Proc. International Conference. “ Shipping : Technology and Environment ”, Piraeus, Greece.
2. Fountoulakis M., Stamatelatu K. and G. Lyberatos, (2002) “*Impact of Pharmaceuticals on the Anaerobic Digestion Process*”, Poster to the SETAC Europe 12th Annual Meeting, Vienna, Austria, May 12-16.
3. Stamatelatu K., Frouda C., Fountoulakis M.S., Drillia P., Kornaros M. and Lyberatos G. (2002) “*Pharmaceuticals and health care products in wastewater effluents: the example of carbamazepine*” προφορική παρουσίαση ως ‘keynote presentation’ και δημοσίευση ως ‘full paper’ στα πρακτικά του Regional Symposium on Water Recycling in Mediterranean Region [International Water Association (IWA) Conference], Iraklio, Crete, October 10-13.
4. Lyberatos G., Stamatelatu K., Kornaros M., Drillia P., Dokianakis S., Frouda C. and Fountoulakis M.S. (2003) “*Impact and Fate of the antibiotic sulfamethoxazole in wastewater treatment and disposal*”. Oral presentation to the 3rd chemical engineering conference for collaborative research in Eastern Mediterranean, May13-15, Thessaloniki, Greece.
5. Fountoulakis M., Stamatelatu K. and G.Lyberatos. (2003) “*Impact and Biodegradability of Pharmaceuticals on the Anaerobic Digestion Process*”, Oral presentation to SETAC Europe 13th Annual Meeting, Hamburg, Germany, April 27 – May 1.
6. Σταματελάτου Κ., Δοκιανάκης Σ., Δρίλλια Π., Φουντουλάκης Μ., Φρούντα Κ., Κορνάρος Μ και Λυμπεράτος Γ. (2003) «*Η πορεία των φαρμακευτικών ουσιών μέχρι την εναπόθεση τους στο περιβάλλον: το παράδειγμα της οφλοζακίνης*» 4^ο ΠΣΧΜ, Πάτρα..

7. Stamatelatou K., S.N. Dokianakis, M. Fountoulakis, C. Frouda, M.E. Kornaros and G. Lyberatos. (2003) «*The effect of a common antibacterial pharmaceutical (triclosan) on biological wastewater treatment processes*», 8th Conference on Environmental Science and Technology, Lemnos – Greece, 8-10 September.
8. Stamatelatou K., S.N. Dokianakis, M. Fountoulakis, K. Frouda, M.E. Kornaros and G. Lyberatos. (2003) “*On the effect of pharmaceuticals on biological processes*”, ENVIRPHARMA ,European conference on human and veterinary pharmaceuticals in the Environment in Lyon, France, 14-16 April.
9. Fountoulakis M., Stamatelatou K., Gavala H.N., Skiadas I.V., Kampioti A. and Lyberatos G. (2004) “*Anaerobic digestion of secondary sludge: effect of pre-treatment and post-treatment with the presence of xenobiotics*” Oral presentation at the 10th World Congress on Anaerobic Digestion. Montreal, Canada.
10. Pakou C., Fountoulakis M., Drillia P., Kampioti A., Stamatelatou K. and Lyberatos G. (2005) “*Microwave-Assisted Extraction- HPLC- FD for the Assessment of the Occurrence and the Fate of the Polycyclic Aromatic Hydrocarbons in Sewage*” Poster presentation at the WasteEng Conference. Albi, France, 17-19 May.
11. Fountoulakis M., Stamatelatou K., Batstone D.J. and Lyberatos G. (2005) “*Modelling of anaerobic digestion kinetics of secondary sludge contaminated with xenobiotic compounds*” Oral presentation at the WasteEng Conference. Albi, France, 17-19 May.
12. Φουντουλάκης Μ, Πάκου Κ, Μπλίκα Ε, Σταματελάτου Κ, Γαβαλά Χ, Σκιαδάς Ι και Λυμπεράτος Γ. (2005) “ *Τύχη των ξενοβιοτικών ουσιών κατά την επεξεργασία ιλύος*” Προφορική παρουσίαση, 5^ο ΠΣΧΜ, Θεσσαλονίκη.
13. Fountoulakis M., Stamatelatou K., Batstone D.J. and Lyberatos G. (2005) “*Modelling of anaerobic digesters treating primary and mixed primary and secondary sludge contaminated with xenobiotic compounds*” 4th International. Oral presentation at the Symposium on Anaerobic Digestion of Solid Wastes (ADSW), Copenhagen, Denmark. 31 August- 2 September.
14. Fountoulakis M., Stamatelatou K. and Lyberatos G. (2005) “*Simulation of DEHP biodegradation and sorption during the anaerobic digestion of secondary sludge*”. Oral presentation at the 1st International Workshop on the Anaerobic Digestion Model 1 (ADM1). Lyngby, Denmark, 4-6 September.
15. Fountoulakis M., Drillia P., Pakou C., Kampioti A., Stamatelatou K. and Lyberatos G. (2005) “*Fate of nonylphenol and nonylphenol ethoxylates in sewage treatment plants*”. Oral presentation at the 9th Conference on Environmental Science and Technology, Rhodes – Greece, 1-3 September.

16. Lyberatos G., Stamatelatou K., Fountoulakis M., Pakou C. and Kornaros M. (2006) “*On the Fate of Xenobiotic Compounds during Alternative Methods of Municipal Sludge Treatment*” AICHE Annual Meeting, San Francisco, 12-17 September.
17. Φουντουλάκης Μ., Γεωργάκη Ε., Τερζάκης Σ., Κατσαράκη Ε., Μανιός Θ. (2007) “*Παραγωγή μεθανίου από απόβλητα ελαιοτριβείων, οινοποιείων και σφαγείων*”. Αναρτημένη εργασία, 6^ο ΠΣΧΜ, Αθήνα.
18. K. Lasaridi, P. Siamandoura, Th. Manios, M. Fountoulakis, E.I. Stediford, A. Kyriacou. (2007) “Biofiltration of odorous Compounds And Other Air Pollutants: Design Parameters and Efficiency Aspects” CEMEPE Conference 24-28 June. Skiathos Island. Greece.
19. S., Terzakis, M. Fountoulakis, R., Drakopoulou, A., Chatzinotas, N., Kalogerakis, T., Manios. (2007) “Performance of different wastewater treatment processes and pollutants removal at different loadings of primary treated municipal wastewater”. RAISEBIO, UFZ, Summer school. 23-27 September. Leipzig, Germany.
20. Fountoulakis, M.S. Terzakis, S. Drakopoulou, S. Brix, H, Kalogerakis, N. T. Manios. (2008) Pilot scale constructed wetlands and attached biofilm reactors treating domestic wastewater in central Mediterranean region. Small and Decentralized Water and Wastewater Treatment Units. 2nd conference. 2-4 May, Skiathos, Greece.
21. S. Terzakis, M.S. Fountoulakis, I. Georgaki, D. Albantakis, I. Sabathianakis, A.D. Karathanasis, N. Kalogerakis, T. Manios. (2008) Removal of heavy metals and polycyclic aromatic hydrocarbons from runoff in pilot constructed wetlands. Small and Decentralized Water and Wastewater Treatment Units. 2nd conference. 2-4 May, Skiathos, Greece.
22. M. Fountoulakis, M. Sfendouraki, S. Terzakis and T. Manios (2009) Enhanced biogas production of primary sludge co-digested with crude glycerol. CEMEPE Conference 21-26 June. Mykonos Island. Greece.
23. K. Lasaridi, G. Katsabanis, Th. Maggos, Th. Manios, M. Fountoulakis, N. Kalogerakis, E.I. Stentiford and A. Kyriacou. (2009) Mapping odour nuisance from environmental and industrial installations in Greece. CEMEPE Conference 21-26 June. Mykonos Island. Greece.
24. L. Makridis, E.K. Pirounaki, M. Fountoulakis, C. Chroni, K. Lazaridi and T. Manios (2009) Fate and effect of herbicides on co-composting process of green waste and sewage sludge. CEMEPE Conference 21-26 June. Mykonos Island. Greece.

25. Terzakis S., Papageorgiou N., Fountoulakis M., Kalogerakis N., Chatzinotas A. and Manios T. (2009) Nitrifying & denitrifying bacterial communities responses under different applied hydraulic loading rates in constructed wetlands & attached biofilm reactors. 11th Conference of Environmental Science & Technology, 3-5 September, Chania, Greece.
26. Petousi, I., Fountoulakis, M., Christofaki, I., Atsalinou, A., Albandakis, D., Manios T. 2010. Farmers' acceptability of reusing wastewater for agricultural irrigation in a Cretan region, Crete, Greece. 29 June – 3 July. 7th International Conference ORBIT 2010, Heraklion, Crete, Greece, oral presentation.
27. Fountoulakis M.S., Dokianakis, S.N., Tzaferou, P., Manios, T. 2010. *Methane production through two stage anaerobic-co-digestion of OFMSW and glycerol.* (2010) 7th International Conference ORBIT, 29 June-3 July, Heraklion, Greece, oral presentation.
28. Dokianakis, S.N., Fountoulakis, M.S., Polymerou, M., Mpastouna A., Manios, T. *Pre-treatment and methane production potential of carob fruit.* (2010) 7th International Conference ORBIT, 29 June-3 July, Heraklion, Greece, oral presentation.
29. Fountoulakis, M.S., Cicek, N., Manios, T. (2010) Use of plastic tubes as bulking agent for the composting of sewage sludge. 7th International Conference ORBIT, 29 June-3 July, Heraklion, Greece, oral presentation.
30. Petousi, I., Fountoulakis, M. Dokianakis, S. Stentiford, E.I. Manios T. (2011). Opinion of urban and rural population about wastewater reuse for agricultural irrigation in Heraklion, Crete, Greece. 10th Specialized Conference on Small Water and Wastewater Systems & 4th Conference on Decentralized Water and Wastewater International Network. IWA. 18-22 April 2010 Venice, Italy, poster presentation.
31. Fountoulakis M., Dokianakis, S. Bastas, T. Terzakis, S. Manios, T. (2011) PAHs and LAS mass balance in a free water surface constructed wetland treating domestic wastewater 10th Specialized Conference on Small Water and Wastewater Systems & 4th Conference on Decentralized Water and Wastewater International Network. IWA. 18-22 April 2010 Venice, Italy, poster presentation.
32. Fountoulakis M., Dokianakis, S., Manios, T. (2011) Long term effect of polycyclic aromatic hydrocarbons in forest soils affected by wildfires. 5th European Bioremediation Conference, 4-7 July, Chania, Greece, poster presentation.
33. Fountoulakis M., Manios, T. (2012) The Hybrid wastewater treatment system. IWA Regional Conference on Wastewater Purification and Reuse, 28-30 March, Heraklion, Greece, oral presentation

34. Petousi, I., Stavroulaki, N., Fountoulakis, M., Papadimitriou, M., Stentiford, E.I., Manios, T. (2013) Application of Treated Wastewater for Cultivation of Carnations. IWA Regional Conference on Waste and Wastewater Management, Science and Technology, 26-28 June, Limmasol, Cyprus, poster presentation
35. Fountoulakis, M., Gyparakis, S., Daskalakis, G., Sabathianakis G., Manios, T. (2013) On-site greywater treatment using SBR technology. IWA Regional Conference on Waste and Wastewater Management, Science and Technology, 26-28 June, Limmasol, Cyprus, oral presentation
36. Maragkaki A.E, Fountoulakis, M., Lasaridi K, Manios T. (2014) Improved biogas production from sewage sludge by co-digestion with the organic fraction of municipal solid waste”. 2nd International Conference on Sustainable Solid waste Management, 12-14 June, Athens, Greece, oral presentation.
37. Maragkaki A.E, Fountoulakis, M., Lasaridi K, Manios T. (2014) “Pilot-Scale anaerobic co-digestion of sewage sludge and olive mill wastewater for increased biogas production”. 9th Conference on Organic Resources and Biological treatment, 26-28 June, Godollo, Hungary, oral presentation.
38. Fountoulakis M.S., Daskalakis, G., Kalogerakis, N., Manios, T. (2014) “Use of constructed wetland planted with halophyte for domestic wastewater treatment”. 11th International Phytotechnologies Conference, Sept. 30 - Oct. 3, Heraklion, Greece, oral presentation
39. Galliou F, Fountoulakis M., Kritsotakis V, Markoulaki E, Petraki K, Papadaki A, Zampetakis L, Kafetsios K, Kalogerakis N, Markakis G, Manios T. 2015. Constructing an Environmental Sustainability Index of Agricultural Practice in Crete, Greece. 11th International Conference on Environmental, Cultural, Economic, and Social Sustainability, 21-23 January 2015, Copenhagen, Denmark, poster presentation.
40. Fountoulakis, M., Markakis, G., Petousi, I., Manios T. 2015. Household grey water treatment using a submerged membrane bioreactor. IWA Balkan Young Water Professionals Conference, 10-12 May 2015, Thessaloniki, Greece, oral presentation
41. Galliou F., Fountoulakis M., Kritsotakis V., Markoulaki E., Petraki K., Papadaki A., Zampetakis L., Kafetsios K., Kalogerakis N., Markakis G., Manios T. 2015. Factors affecting the use of irrigation water from farmers in Crete, Greece. IWA Balkan Young Water Professionals Conference, 10-12 May 2015, Thessaloniki, Greece, poster presentation
42. Petousi, I., Daskalakis, G., Fountoulakis, M., Papadaki, A., Tsompanidis, C., Dialynas, E., Manios T. 2015. Effect of roofing material on quality of roof-harvested rainwater-correlation with rainfall events. IWA Balkan Young Water

- Professionals Conference, 10-12 May 2015, Thessaloniki, Greece, poster presentation
43. Petousi, I., Daskalakis, G., Fountoulakis, M., Papadaki, A., Tsompanidis, C., Dialynas, E., Tzaferou, P., Manios T., 2015. Performance comparison of three compact systems in grey-water treatment, oral presentation. Industrial Waste & Wastewater Treatment & Valorisation Conference, 21 – 23 May 2015, Athens, Greece, oral presentation
 44. Dialynas, E., Fountoulakis, M.S., Manios, T. 2016. An improved autonomous composting unit aiming in the hospitality industry. 10th International Conference on “Circular Economy and Organic Waste”, ORBIT 2016, 25 – 28 May 2016, Heraklion, Greece, oral presentation
 45. Maragkaki, A., Fountoulakis, M., Gypakis, A., Lazaridi, K., Manios, T. 2016. Improved biogas production from sewage sludge by co-digestion with agro-industrial by-products. 10th International Conference on “Circular Economy and Organic Waste”, ORBIT 2016, 25 – 28 May 2016, Heraklion, Greece, oral presentation
 46. Fountoulakis M., Papadaki, A., Gypakis, A., Manios, T. 2016. Use of slow sand filter as a polishing step for domestic wastewater treatment. 10th International Conference on “Circular Economy and Organic Waste”, ORBIT 2016, 25 – 28 May 2016, Heraklion, Greece, poster presentation
 47. Koutsou, O.P., Gatidou, G., Fountoulakis M.S., Stasinakis A.S. 2018. Estimation of Greenhouse Gas Emissions From Small Municipal Wastewater Treatment Plants In Greece, 5th International Conference on Small And Decentralized Water And Wastewater Treatment Plants Thessaloniki, August 26-29, 2018
 48. Fountoulakis, M.S., Markakis, N., Petousi, I., Manios, T. 2018. Monitoring the Performance of a Full-Scale Sand Filter for Single-House Greywater Treatment in Greece. 5th International Conference on Small And Decentralized Water And Wastewater Treatment Plants, August 26-29, Thessaloniki, Greece
 49. Deligianni A., Rentzos S., Zotos E., Stasinakis A., Ritzema H., Fountoulakis M.S. 2019. Use of ornamental plants in vertical flow constructed wetlands for greywater treatment. International symposium on constructed wetlands & small decentralized wastewater treatment plants, August 29-31, Patras, Greece
 50. Kotoula D., Iliopoulou A., Irakleous-Palaiologou E., Gatidou G., Aloupi M., Fountoulakis M.S., Stasinakis A.S. 2019. Use of the microalgae *Chlorella Sorokiniana* for municipal wastewater treatment: batch experiments
 51. Kora E., Theodorelou D., Herpich A., Gatidou G., Fountoulakis M.S., Stasinakis A. 2019. Combined use of anaerobic and aerobic moving bed biofilm reactors for

- micropollutants' removal from wastewater 16th International Conference on Environmental Science and Technology September 4-7, Rhodes, Greece.
52. Kotsia, D., Fountoulakis, M.S. 2021. Biochemical Methane Potential (BMP) of Quince Waste. RETASTE Conference 6-8 May, 2021 Athens, Greece.
 53. Daskaloudis, I., Lekkas, D-F, Fountoulakis M.S. 2021. Assessing the Effects of Spent Coffee Grounds on Dry Anaerobic Digestion of Kitchen Waste. RETASTE Conference 6-8 May, 2021 Athens, Greece.
 54. Nitsiou, I., Altiparmaki, G., Kotsia, D., Lekkas, D-F, Stasinakis, A.S, Fountoulakis M.S. 2021. Utilization of Olive Mill Wastewater with Domestic Wastewater for the Production of Biogas and Microalgal Biomass. RETASTE Conference 6-8 May, 2021 Athens, Greece.
 55. Papastefanakis, N., Maragkaki, A., Daliakopoulos, I., Fountoulakis, M., Zotos, N., Tsompanidis, C, Manios, T. 2021. Solar Drying Method as a Pre-Treatment: Investigation of Biogas Production with Solar Dried Mixtures of Agricultural and Organic Residues. RETASTE Conference 6-8 May, 2021 Athens, Greece.
 56. Thomaidi A., Petousi I, Kotsia D., Fountoulakis M.S. 2021. Use of the halophyte *Atriplex Halimus* in green roofs for greywater treatment under Mediterranean climatic conditions. 5th International Conference on Ecotechnologies for Wastewater Treatment. June 21-25, Milan, Italy
 57. Stefanatou A., Petousi I, Rizzo A., Masi F., Fountoulakis M.S. 2021. Use of climbing plants in vertical flow constructed wetlands for greywater treatment in buildings: Preliminary results. 5th International Conference on Ecotechnologies for Wastewater Treatment. June 21-25, Milan, Italy
 58. Katsara, A., Iliopoulou, A., Zkeri, E., Aloupi, M., Fountoulakis, M.S., Stasinakis, A.S. 2021. Use of a two-stage MBBR system for medium-strength dairy wastewater treatment. 17th International Conference on Environmental Science and Technology September 1-4, Athens, Greece.
 59. Panara, A., Stasinakis, A.S., Thomaidis, N.S., Fountoulakis, M.S., Dasenaki, M., Aloupi, M., Zkeri, E., Iliopoulou A. 2021. Production and characterization of microalgal biomass from dairy wastewater. 17th International Conference on Environmental Science and Technology September 1-4, Athens, Greece.
 60. Stefanatou, A., Schiza, S., Petousi, I., Rizzo, A., Masi, F., Fyllas, N.M, Fountoulakis, M.S. 2021. Use of ornamental plants in floating treatment wetlands for greywater treatment in buildings: preliminary results. 17th International Conference on Environmental Science and Technology September 1-4, Athens, Greece.
 61. Kotsia D., Stasinakis A.S., Fountoulakis M.S. 2022. Dairy wastewater treatment in vertical flow constructed wetlands using a mixture of perlite and sponge

- carriers as substrate material. 9th International Conference on Sustainable Solid Waste Management. 15-18 June, Corfu, Greece
62. Koutsellis, L. Gatidou, G., Vyrides, I., Vakalis, S., Stasinakis, Fountoulakis, M.S. 2022. Conductive material addition and external voltage application in anaerobic digesters to promote treatment efficiency and benzotriazoles removal. 13ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, 2-4 Ιουνίου Πάτρα, Ελλάδα
 63. Koutsellis, L. Gatidou, G. Vakalis, S. Kalantzi, O.I. Stasinakis, A.S. Hale, S.E. Arp., H.P.H.. Fountoulakis, M. 2022. Fate of benzotriazoles during anaerobic digestion of sewage sludge. SETAC Europe 32nd Annual Meeting, 15-19 May 2022, Copenhagen, Denmark
 64. Fountoulakis M.S., Dedova, Z., Lemaigre, S., Calunsiska, M., Roussel, J. 2022. Effect of conductive material addition and external voltage application on the anaerobic digestion of dairy wastewater. 1st International Conference on Sustainable Chemical and Environmental Engineering, 31 Aug – 04 Sep 2022, Rethymno, Crete, Greece
 65. Kalantzis, D., Daskaloudis, I., Lekkas, D-F., Lacoere, T., De Vrieze, J., Fountoulakis M.S. 2022. Effect of granular activated carbon (GAC) addition in a pilot-scale anaerobic digester treating sheep manure and agro-industrial wastewater. 1st International Conference on Sustainable Chemical and Environmental Engineering, 31 Aug – 04 Sep 2022, Rethymno, Crete, Greece.
 66. Koukoura, T. Seintos, E. Statiris, D. Mamais, Noutsopoulos, C. Masi, F. Rizzo, A. Bresciani, R. Fountoulakis, M.S. Stasinakis, A.S. Malamis S. 2023. Electroactive and intensified pilot-scale constructed wetlands for the treatment of high loads of septic tank effluent. Water Innovation and Circularity Conference (WICC), 7-9 June 2023, Athens, Greece
 67. Kotsia, D. Sympikou, T. Topi, E., Fountoulakis, M.S. 2023 Use of recycled construction and demolition waste as substrate in hybrid constructed wetlands for the treatment of cheese production wastewater. Water Innovation and Circularity Conference (WICC), 7-9 June 2023, Athens, Greece
 68. Galipidou, E. Deligiannis, M. Androulakakis, A. Gatidou, G., Kalantzi, O.I., Fountoulakis, M.S., Stasinakis, A.S. 2023. Study on the removal of benzotriazoles and perfluorinated substances in advanced sludge anaerobic digestion reactors: effect of GAC addition and application of voltage. Water Innovation and Circularity Conference (WICC), 7-9 June 2023, Athens, Greece
 69. Koukoura, A. Galipidu, E. Zkeri, E. Fountoulakis, M.S., Stasinakis, A.S. 2023. Municipal wastewater treatment combining microalgae *Chlorella sorokiniana* and activated sludge in suspended-growth and attached-growth systems. Water

- Innovation and Circularity Conference (WICC), Athens 7-9 June 2023, Athens, Greece
70. Gatidou, G. Koukoura, A. Gkalipidou, E. Zkeri, E. Fountoulakis M., Stasinakis, A. 2023. Benzotriazoles and perfluorinated substances removal using thermal pretreatment and biochemical methane potential (BMP) test. 2nd International Conference on Sustainable Chemical and Environmental Engineering, 16-18 June 2023, Limassol, Cyprus
 71. Schiza, S. Stasinakis A.S., Fountoulakis, M.S. 2023. Cultivation of *Clorella sorokiniana* in a flat-plate gas-lift photobioreactor and harvesting with the use of *Pleurotus ostreatus* fungal pellets. 2nd International Conference on Sustainable Chemical and Environmental Engineering, 16-18 June 2023, Limassol, Cyprus
 72. Δεληγιάννης, Μ., Γαλιπίδου, Ε., Γατίδου, Γ., Κωστακης, Μ., Γεροκωνσταντής, Δ.Τ., Αρβανίτη, Ο., Θωμαΐδης, Ν., Βυρίδης, Ι., Στασινάκης, Α., Φουντουλάκης, Μ. 2024. Τύχη υπερφθοριωμενων και πολυφθοριωμενων αλκυλιωμενων ενώσεων (PFAS) κατά την θερμόφιλη αναερόβια χώνευση αστικής ιλύος με προσθήκη κοκκώδη ενεργού άνθρακα. 14ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, 29-31 Μαΐου, Θεσσαλονίκη, Ελλάδα
 73. Gkalipidou, E., Deligiannis, M., Gatidou, G., Arvaniti, O., Fountoulakis, M.S., Stasinakis A.S. 2024. Effect of GAC addition, application of voltage and ultrasound pretreatment on the performance of anaerobic digestion and the removal of PM substances. 18th IWA World Conference on Anaerobic Digestion June 2-6, Istanbul, Turkey.