

Kadir Yanaç

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Bülbülderesi Cad. No: 117/17 Cankaya/Ankara TURKEY

Education

- Ph.D., Environmental Engineering, Middle East Technical University (METU), Ankara, Fall 2016- current
- M.Sc., Environmental Engineering, METU, Ankara, 2013-2016
Thesis: “Biodegradation of the Fluorinated Non-Steroidal Anti-Inflammatory Pharmaceutical Flurbiprofen”
- B.Sc., Environmental Engineering, METU, Ankara, 2008-2013
Senior Project: “Design of Karaman Municipal Wastewater Treatment Plant”
- English Preparatory School, METU, Ankara, 2007-2008

Research Interests

Environmental Biotechnology, Environmental Modeling, Environmental Microbiology, and Fate, Occurrence and Degradation of Micropollutants

Publications

- Yanaç, K. and Murdoch, R.W. “Biodegradation of the Fluorinated Non-Steroidal Anti-Inflammatory Pharmaceutical Flurbiprofen in Activated Sludge Results in Accumulation of a Recalcitrant Fluorinated Aromatic Metabolite.” *Biodegradation. submitted*
- Yanaç, K. and R.W. Murdoch. “Fluorinated aromatics as environmental pollutants: Current state of knowledge and future trends.” *in preparation*

Work Experience

- Research Assistant to Assoc. Prof. Bülent İçgen, Environmental Engineering Dept., METU, Ankara, March 2017-June 2017
 - Changes in microbial community and biogas production due to ozone pre-treatment in two-stage anaerobic digestors
- Project Assistant, “Assessment of the Regulatory Gaps for U-POPs” and “BAT/BEP Training for Priority Industrial Sectors” related to “POPs Legacy Elimination and POPs Release Reduction Project” Turkey, GEF Project ID: 4601, UNIDO SAP ID: 140288, November 2016-January 2017
- Research assistant to Assist. Prof. Robert W. Murdoch during graduate studies, Environmental Engineering Dept., METU, Ankara, May 2014-June 2016
 - Investigation of biodegradation of flurbiprofen by environmental bacteria and its degradation metabolites experimentally.

- Investigation of biodegradation of phenylacetic acid, 3-fluorophenylactic acid, m-tolylacetic acid, p-tolylacetic acid, biphenyl and ibuprofen by environmental bacteria experimentally.
 - Investigation of fate, occurrence and removal of pharmaceuticals, aromatic compounds and halogenated aromatic compounds in wastewater treatment plants and environment.
- Research assistant in Assoc. Prof. Tuba H. Erguder's laboratory, Environmental Engineering Dept., METU, Ankara, Spring 2011.
 - Investigation of the effects of seed sludge type and anoxic/aerobic period sequence on aerobic granulation and COD, N treatment performance.
- Intern, Prof. Dr. Celal Gökçay's laboratory, Environmental Engineering Dept., METU, Ankara, Summer 2011.
 - Investigation of performance of MBR in removal of EDCs, METU Wastewater Treatment Plant, Ankara.
- Project Worker, preparation of the environmental impact assessment for the Iran Turkey Europe – Gas Pipeline Project, Dokay Engineering, Summer 2012.
 - Field work in East Turkey; Public surveys, Interviews, and Stakeholder meetings

Presentations

- Oral Presentation: Yanaç K, Murdoch RW, **Biodegradation of the Non-Steroidal Anti-Inflammatory Pharmaceutical Flurbiprofen**, ICOCEE Cappadocia (Nevşehir, Turkey - 2015)

Laboratory & Technical Skills

- General Microbiological and Chemical Techniques, Gel Electrophoresis, DNA Isolation and Purification, FISH, RFLP, PCR, SDS-PAGE, Western Blotting, Reactor design, Chromatographic Methods (HPLC, LC-MS, GC-MS), Spectrophotometric Techniques, Micro-diffusion Techniques,

Computer Skills

- C programming language, MATLAB, SewerCAD, WaterCAD, AutoCAD, LCsolution, LabSolution, QUAL2E, QUAL2K, SigmaPlot, ChemSketch, LINDO, LINGO

Languages

- Turkish (Native)
- English (Advanced)
- French (Elementary)

Other Achievements, Activities and Capabilities

- The Scientific and Technological Research Council of Turkey (TÜBİTAK) Scholarship for Thesis Project (December 2014 – December 2015), Competitive program, Budget: €6000
- Authored a poetry book, “Tutukevleri boyunca ahizelerde bırakılanlar”, Dedalus Publishing House, 2013
- Acting, METU Alumni Association Players, 2010 - 2013

References

- Assist. Prof. Robert W. Murdoch – Environmental Engineering Dept., Middle East Technical University, murdoch@metu.edu.tr, Phone: +90-312-210-5872 Fax: +90-312-210-2646
- Prof. Dr. Göksel N. Demirer - Environmental Engineering Dept., Middle East Technical University, goksel@metu.edu.tr, Phone: +90-312-210-5867 Fax: +90-312-210-2646