



Çiğdem Kalkan AKTAN

Marmara University,

Faculty of Engineering,

Environmental Engineering Department

Personal Information

Date of Birth: 09.10.1983

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Education

2010- 2018

Ph.D

Marmara University, Insititute of Pure and Applied Sciences, Environmental Engineering

2008-2010

M.S.c

Marmara University, Insititute of Pure and Applied Sciences, Environmental Engineering

2002-2007

B.S.c

Marmara University, Faculty of Engineering Environmental Engineering

Academic Experiences:

2011- Current

Research and Teaching Assistant

Marmara University, Department of Environmental Engineering

2019- Current

Lecturer

Marmara University, Department of Environmental Engineering

2020- Current Vice Laboratory Manager

Prof. Dr. Ahmet Mete Saatci Environmental Engineering
Laboratory at Marmara University

Work Experiences:

2008-2009 Project Engineer; GEZER Industry and Construction Company,
Gebze /KOCAELI

2007-2008 Sales Engineer; AES Treatment Equipment Sales Company
Kurtkoy/ISTANBUL

Projects:

1. Examination of Cadmium effects on Anammox systems, Marmara University Scientific Research Projects Committee (BAPKO), Researcher, 2017-2019
2. Identification of pathogens in wastewater treatment plant effluents using Real-Time PCR method, TUBİTAK Project, 113Y304, Scholarship student, 1.08.2013-1.07.2015.
3. Examination of chemical risks of water reuse in the scenario of agricultural irrigation, Marmara University Scientific Research Projects Committee (BAPKO), FEN-C-DRP110913-0382, Researcher, 11.9.2013-11.09.2015
4. Investigation of chemical and pathogenic risks of water reuse in a lysimeter setup, Marmara University Scientific Research Projects Committee (BAPKO), FEN-A120613-0269, Researcher, 12.06.2013-12.06.2016.
5. Investigation of landfill leachate characterization, treatment method alternatives and examination of existing treatment facilities. TUBİTAK, 108Y269, Scholarship student, 2009-2011.

List of Publications:

Papers in SCI journals

1. **Aktan C. K.**, Yapsakli K., Mertoglu B, (2021), Short- and long-term effects of copper on anammox under gradually increased copper concentrations, *Biodegradation*,32(11).
2. **Aktan C.K**, Uzunhasanoğlu E.A, Yapsakli K. (2018), “Speciation of nickel and zinc, its short-term inhibitory effect on Anammox, and the associated microbial community composition”, *Bioresource Technology*, Volume 268, Pages 558-567.
3. Yapsakli K.,**Aktan C.K**, Mertoglu B., “Anammox-zeolite system acting as buffer to achieve stable effluent nitrogen values”, *Biodegradation*, 28 (1), 69-79, 2017.

4. Akgul D., **Aktan C.K.**, Yapsakli K., Mertoglu B. (2012), Treatment of landfill leachate using UASB-MBR-SHARON–Anammox configuration, *Biodegradation*, 24 (3), 399-412, 2013.
5. **Aktan C. K.**, Yapsakli K., Mertoglu B. (2012), Inhibitory effects of free ammonia on Anammox bacteria, *Biodegradation*, 3:751–762.
6. **Kalkan Ç.**, Yapsakli K., Mertoglu B., Tufan D., Saatci A., (2011), "Evaluation of Biological Activated Carbon (BAC) process in wastewater treatment secondary effluent for reclamation purposes", *Desalination*, 265 (1-3), 266-273.

Presentations in International Conferences:

1. **Aktan C.K.**, Uzunhasanoğlu E.A, Yapsakli K., Mertoglu B., Short-Term and Long-Term Inhibitory Effects of Copper on Anammox Process, 3rd EWAS International Conference, Lefkada Island, Greece, 27-30 June 2018.
2. **Aktan C.K.**, Yapsakli K., Mertoglu B., Evaluation of the Short and Long Term Effects of Cd on Anammox activity, 10th IWA Young Water Professionals Conference, Zagreb, Croatia, 7-12 May 2018.
3. Uzunhasanoğlu E.A.,**Aktan C.K.**, Yapsakli K., Mertoglu B., ICOCEE 2017 2nd International Conference of Civil and Environmental Engineering Conference “Long Term Effects of Cadmium on Anammox Process”, Kapadokya, Turkey, 8-10 May 2017.
4. **Aktan C.K.**, Yapsakli K., Mertoglu B., ICHE’2014 11th International Conference on Hydrosience & Engineering, “Impacts of Reclaimed Water Irrigation on Heavy Metal Distribution in Soil Properties and Crop”, Hamburg, Germany 28 September-2 October 2014.
5. **Aktan C.K.**, Yapsakli K., Mertoglu B., ICOEST’2014 International Conference on Environmental Science and Technology “Effects of reclaimed water irrigation in soil properties and crop”, Antalya, Turkey, 14-17 May 2014
6. **Kalkan C.**, Yapsakli K., Mertoglu B., International Sustainable Water and Wastewater Management Symposium "International Sustainable Water and Wastewater Management Symposium" "Enrichment of Anammox bacteria in reactor packed with Kaldnes Rings”, Konya, Turkey 26-28 October 2010.
7. K. Yapsakli, **C. Kalkan**, D. Tufan, B. Mertoglu, IWA World Water Congress and Exhibition "IWA World Water Congress and Exhibition” "Tertiary treatment of Pasakoy

Advanced Wastewater Treatment Plant by Biological Activated Carbon (BAC)",
Manuscript Number: IWA-3359, Montreal, Canada, 19-24 September 2010

Teaching Activities (as Teaching Assistant&Lecturer):

1. ENVE 2004 Environmental Hydraulics Laboratory (Lecturer)
2. CHEM 101 General Chemistry I (Lecturer&TA)
3. CHEM 102 General Chemistry II (Lecturer&TA)
4. ENVE 201 Environmental Engineering Chemistry I (TA)
5. ENVE 202 Environmental Engineering Chemistry II (TA)
6. ENVE 301 Environmental Engineering Unit Operations (TA)
7. ENVE 302 Environmental Engineering Unit Processes (TA)
8. ENVE 411 Water Engineering Design (TA)
9. ENVE 422 Wastewater Engineering Design (TA)