

**Res. Asst. PhD ÇIĞDEM KALKAN
AKTAN**



Personal Information

Email: cigdemkalkan@marmara.edu.tr

Web: <https://avesis.marmara.edu.tr/cigdemkalkan>

International Researcher IDs

ScholarID: 4hJK9ykAAAAJ

ORCID: 0000-0002-4162-5803

Publons / Web Of Science ResearcherID: AAE-9911-2019

ScopusID: 55138825600

Yoksis Researcher ID: 24783



Education

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Çevre Mühendisliği (Dr), Turkey 2010 - 2018

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Çevre Mühendisliği (YI) (Tezli), Turkey 2008 - 2010

Undergraduate, Marmara University, Faculty of Engineering, Environmental Engineering, Turkey 2002 - 2007

Biography

Dr. Çiğdem Kalkan Aktan is a research assistant at Department of Environmental Engineering at Marmara University in Istanbul, Turkey. She has received her Bachelor's degree in Environmental Engineering from Marmara University in 2007. She worked as a project engineer at Gezer Company between 2007 and 2008. After working as a project engineer she received her MS and PhD degrees in Environmental Engineering from Marmara University. Her current research interests include biological wastewater treatment, environmental biotechnologies and wastewater reuse.

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Short and Long Term Effects of Heavy Metal Exposure On Anammox Process, Marmara Üniversitesi, Faculty of Engineering, Environmental Engineering, 2018

Postgraduate, Tertiary Treatment of Paşaköy Advanced Wastewater Treatment Plant Effluent by Biological Activated Carbon (BAC), Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Çevre Mühendisliği (YI) (Tezli), 2010

Research Areas

Environmental Engineering, Waste Water Collection and Treatment, Water Pollution and Control

Academic Positions

Research Assistant PhD, Marmara University, Faculty of Engineering, Environmental Engineering, 2011 - Continues

Courses

Undergraduate

General Chemistry II, Undergraduate, 2020 - 2021

General Chemistry I, Undergraduate, 2018 - 2019

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Unravelling the impact of oxic-settling-anaerobic cycle implementation and solid retention time on sludge generation, membrane operation, and contaminant removal in membrane bioreactors**
Morello R, Di Capua F., KALKAN AKTAN Ç., Yilmaz T., Esposito G., Pirozzi F., Fratino U., Spasiano D., Sahinkaya E.
Chemical Engineering Journal, vol.496, 2024 (SCI-Expanded)
- II. **Short- and long-term effects of copper on anammox under gradually increased copper concentrations**
Aktan Ç., Yapsakli K., MERTOĞLU B.
BIODEGRADATION, vol.32, no.3, pp.273-286, 2021 (SCI-Expanded)
- III. **Speciation of nickel and zinc, its short-term inhibitory effect on anammox, and the associated microbial community composition**
Kalkan Aktan Ç., Uzunhasanoglu A. E., Yapsakli K.
BIORESOURCETECHNOLOGY, vol.268, pp.558-567, 2018 (SCI-Expanded)
- IV. **Anammox-zeolite system acting as buffer to achieve stable effluent nitrogen values**
Yapsakli K., KALKAN AKTAN Ç., MERTOĞLU B.
BIODEGRADATION, vol.28, no.1, pp.69-79, 2017 (SCI-Expanded)
- V. **Treatment of landfill leachate using UASB-MBR-SHARON-Anammox configuration**
AKGÜL D., KALKAN AKTAN Ç., Yapsakli K., MERTOĞLU B.
BIODEGRADATION, vol.24, no.3, pp.399-412, 2013 (SCI-Expanded)
- VI. **Inhibitory effects of free ammonia on Anammox bacteria**
KALKAN AKTAN Ç., Yapsakli K., MERTOĞLU B.
BIODEGRADATION, vol.23, no.5, pp.751-762, 2012 (SCI-Expanded)
- VII. **Evaluation of Biological Activated Carbon (BAC) process in wastewater treatment secondary effluent for reclamation purposes**
Kalkan C., Yapsakli K., MERTOĞLU B., Tufan D., Saatci A.
DESALINATION, vol.265, pp.266-273, 2011 (SCI-Expanded)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Short-Term and Long-Term Inhibitory Effects of Copper on Anammox Process**
KALKAN AKTAN Ç., Uzunhasanoglu A. E., BAKIRCI K., MERTOĞLU B.
The 3rd EWaS International Conference on "Insights on the Water-Energy-Food Nexus", Lefkada, Greece, 27 - 30 June 2018, vol.2, pp.657, (Full Text)
- II. **Long Term Effects of Cadmium on Anammox Process**
Uzunhasanoğlu A. E., Kalkan Aktan Ç., Bakırcı K., Mertoğlu B.

2nd International Conference of Civil and Environmental Engineering (ICOCEE 2017), Nevşehir, Turkey, 8 - 10 May 2017, (Full Text)

III. **Enrichment of Anammox bacteria in reactor packed with Kaldnes Rings**

KALKAN AKTAN Ç., BAKIRCI K., MERTOĞLU B.

International Sustainable Water and Wastewater Management Symposium, Konya, Turkey, 26 October 2010 - 28 January 2016

IV. **Effects of reclaimed water irrigation in soil properties and crop**

KALKAN AKTAN Ç., BAKIRCI K., MERTOĞLU B.

International Conference on Environmental Science and Technology, ICOEST 2014, 14 May 2014 - 17 October 2010

V. **Impacts of Reclaimed Water Irrigation on Heavy Metal Distribution in Soil Properties and Crop**

KALKAN AKTAN Ç., BAKIRCI K., MERTOĞLU B.

11 th International Conference on Hydroscience and Engineering, ICHE 2014, Hamburg, Germany, 28 September 2014 - 02 October 2010, (Full Text)

VI. **Tertiary treatment of Paşaköy Advanced Wastewater Treatment Plant by biological activated carbon (BAC)**

BAKIRCI K., KALKAN AKTAN Ç., AKGÜL D., MERTOĞLU B.

IWA World Water Congress and Exhibition 2010, 19 - 24 September 2010, (Summary Text)

Funded Projects

Kalkan Aktan Ç., Bakırcı K., Project Supported by Higher Education Institutions, Atıksuların tarımsal sulamada kullanımının getireceği kimyasal risklerin değerlendirilmesi, 2013 - 2016

Peer Reviews in Scientific Publications

Water Research, SCI Journal, May 2019

Metrics

Publication: 15

Citation (WoS): 173

Citation (Scopus): 196

H-Index (WoS): 5

H-Index (Scopus): 3

Congress and Symposium Activities

3rd EWAS International Conference, Working Group, Levkas, Greece, 2018

10th IWA Young Water Professionals Conference, Working Group, Zagreb, Croatia, 2018

Non Academic Experience

GEZER ENDÜSTRİ, PROJE MÜHENDİSİ

AES ARITMA SİSTEMLERİ, SATIŞ MÜHENDİSİ