

Asst. Prof. ZÖHRE KURT

Personal Information

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Education Information

Doctorate, Georgia Institute Of Technology, Environmental Engineering, United States Of America 2007 - 2012

Undergraduate Double Major, Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, Turkey 2001 - 2007

Foreign Languages

German, C2 Proficiency

Spanish, B1 Intermediate

English, C2 Proficiency

Bulgarian, C1 Advanced

Dissertations

Doctorate, Biodegradation of chlorinated compounds at interfaces and biodegradation of 4-nitroaniline, Middle East Technical University, engineering, civil and environmental engineering, 2012

Research Areas

Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, 2017 - 2018

Professional Experience

Deputy Head of Department, Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, 2018 - 2019

Courses

Environmental Biotechnology, Post Graduate, 2018 - 2019

Jury Memberships

Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, September, 2019

Doctoral Examination, Doctoral Examination, Orta Doğu Teknik Üniversitesi, April, 2019

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Biodegradation of the Allelopathic Chemical Pterostilbene by a Sphingobium sp. Strain from the Peanut Rhizosphere**
Yu R., Kurt Z., He F., Spain J. C.
APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol.85, 2019 (Journal Indexed in SCI)
- **Resveratrol as a Growth Substrate for Bacteria from the Rhizosphere**
Kurt Z., Minoia M., Spain J. C.
APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol.84, 2018 (Journal Indexed in SCI)
- **Enzymatic hydrolysis by transition-metal-dependent nucleophilic aromatic substitution**
Kalyoncu S., Heaner D. P. , Kurt Z., Bethel C. M. , Ukachukwu C. U. , Chakravarthy S., Spain J. C. , Lieberman R. L.
NATURE CHEMICAL BIOLOGY, vol.12, pp.1031-1039, 2016 (Journal Indexed in SCI)
- **Immobilized Biocatalyst for Detection and Destruction of the Insensitive Explosive, 2,4-Dinitroanisole (DNAN)**
Karthikeyan S., Kurt Z., Pandey G., Spain J. C.
ENVIRONMENTAL SCIENCE & TECHNOLOGY, vol.50, pp.11193-11199, 2016 (Journal Indexed in SCI)
- **Natural Attenuation of Nonvolatile Contaminants in the Capillary Fringe**
Kurt Z., Mack E. E. , Spain J. C.
ENVIRONMENTAL SCIENCE & TECHNOLOGY, vol.50, pp.10172-10178, 2016 (Journal Indexed in SCI)
- **Modeling Aerobic Biodegradation in the Capillary Fringe**
Luo J., Kurt Z., Hou D., Spain J. C.
ENVIRONMENTAL SCIENCE & TECHNOLOGY, vol.49, pp.1501-1510, 2015 (Journal Indexed in SCI)
- **Biodegradation of cis-Dichloroethene and Vinyl Chloride in the Capillary Fringe**
Kurt Z., Mack E. E. , Spain J. C.
ENVIRONMENTAL SCIENCE & TECHNOLOGY, vol.48, pp.13350-13357, 2014 (Journal Indexed in SCI)
- **Microbial Community Degradation of Widely Used Quaternary Ammonium Disinfectants**
Oh S., Kurt Z., Tsementzi D., Weigand M. R. , Kim M., Hatt J. K. , Tandukar M., Pavlostathis S. G. , Spain J. C. , Konstantinidis K. T.
APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol.80, pp.5892-5900, 2014 (Journal Indexed in SCI)
- **Isotope Fractionation Associated with the Biodegradation of 2-and 4-Nitrophenols via Monooxygenation Pathways**
Wijker R. S. , Kurt Z., Spain J. C. , Bolotin J., Zeyer J., Hofstetter T. B.
ENVIRONMENTAL SCIENCE & TECHNOLOGY, vol.47, pp.14185-14193, 2013 (Journal Indexed in SCI)
- **Biodegradation of Chlorobenzene, 1,2-Dichlorobenzene, and 1,4-Dichlorobenzene in the Vadose Zone**
Kurt Z., Spain J. C.
ENVIRONMENTAL SCIENCE & TECHNOLOGY, vol.47, pp.6846-6854, 2013 (Journal Indexed in SCI)
- **Biodegradation of Chlorobenzene and Nitrobenzene at Interfaces between Sediment and Water**
Kurt Z., Shin K., Spain J. C.
ENVIRONMENTAL SCIENCE & TECHNOLOGY, vol.46, pp.11829-11835, 2012 (Journal Indexed in SCI)
- **Tracking transformation processes of organic micropollutants in aquatic environments using multi-element isotope fractionation analysis**
Hofstetter T. B. , Bolotin J., Skarpeli-Liati M., Wijker R., Kurt Z., Nishino S. F. , Spain J. C.
APPLIED GEOCHEMISTRY, vol.26, 2011 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Modeling irrigation with nitrate contaminated groundwater**
hatipoglu g., KURT Z.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, 2019 (Journal Indexed in ESCI)
- **Swarm Robotics as a Solution to Crops Inspection for Precision Agriculture**
Carbone C., Garibaldi O., KURT Z.
KnE Engineering, vol.3, pp.552, 2018 (Refereed Journals of Other Institutions)
- **Microbial Diversity in a Military Impacted Lagoon (Vieques, Puerto Rico) as Revealed by Metagenomics**
DavilaSantiago L., DeLeonRodriguez N., LaSantaPagan K., Hatt J., KURT Z., Massol-Deyá A., Konstantinidis K. T.
bioRxiv, 2018 (Non-Refreed Journal)

Refereed Congress / Symposium Publications in Proceedings

- **Occurrence of micropollutants in the industrial wastewaters discharged to Yeşilirmak and Nilüfer Rivers in Turkey**
Küçük E., ERGÜVEN G. Ö., Canlı O., PİLEVNELİ T., Aydın E., Oktem O., ASLAN S., KURT Z., ÜNLÜ K., DİLEK F. B. , et al.
5th International Congress on Water, Waste and Energy Management (WWEM - 19), Paris, France, 22 - 24 July 2019, vol.1, pp.90
- **Diverse Microbes: From Micropollutants to Allelopathic Relations**
KURT Z.
17TH APANAC, 24 - 26 October 2018
- **Challenges and innovations for sustainable access to good quality drinking water**
goodridge a., KURT Z., nelson k., smith c.
CILAC CONFERENCE, UNESCO, PANAMA CITY, Panama, 22 - 24 October 2018
- **Noktasal Kaynakların Yeşilirmak Havzası Alıcı Ortam Kalitesine Etkilerinin Belirlenmesi**
KÜÇÜK E., PİLEVNELİ T., ASLAN S., ERGÜVEN G. Ö. , OLGUN E. Ö. , CANLI o., KURT Z., ÇELİK MADENLİ E., ÜNLÜ K., DİLEK F. B. , et al.
1. Uluslararası İçmesuyu ve Atıksu Sempozyumu, 6 - 07 December 2018
- **Sustainable remediation of nitrate contamination in the agricultural fields**
KURT Z., hatipoglu g.
International Eurasian Conference on Science, Ankara, Turkey, 22 - 23 November 2018
- **Swarm robotics as a solution to crops inspection for precision agriculture**
KURT Z., Carbone C., Garibaldi O.
Sixth Engineering, Science and Technology Conference "Tendencies and Challenges in Engineering, Science and Technology, 11 - 13 October 2017
- **Effects of fluvial contaminations on the ocean**
KURT Z.
Mes de Oceanos 2017, 1 - 29 September 2017
- **Biocatalyst for 2,4-Dinitroanisole Biodegradation and Detection**
KURT Z., spain j., Pandey G., Hofstetter T., Bolotin J., Karthikeyan S.
Fourth international symposium on bioremediation and sustainable environmental technologies, 22 - 25 May 2017
- **Solutions to agricultural contamination: Microbial processes**
KURT Z., Donado C.
APANAC 16th Science and Technology Conference, 19 - 22 October 2016
- **Enzyme kinetics of flavin-dependent monooxygenases modulate the observable isotope fractionation during monooxidation of 4-nitrophenol**
Wijker R. S. , Kurt Z., Spain J. C. , Bolotin J., Hofstetter T. B.
242nd National Meeting of the American-Chemical-Society (ACS), Colorado, United States Of America, 28 August - 01 September 2011, vol.242
- **The online survey: An efficient and effective means of engineering graduate student assessment**

Padhye L., Goktas R., Kurt Z.

2009 ASEE Annual Conference and Exposition, Austin, TX, United States Of America, 14 - 17 June 2009

Citations

Total Citations (WOS):146

h-index (WOS):6

Invited Talks

Sustainable use of groundwater to prevent agricultural contamination, Conference, Universidad de Panamá, Panama, September 2019

Expo Biochemistry, Conference, Universidad de Panamá, Panama, September 2019

Sustainable remediation of atrazine and cypermethrin contamination in the agricultural fields, Conference, INTERNATIONAL WATER ASSOCIATION, Greece, June 2019