November 2022

CURRICULUM VITAE

ULAS TEZEL, Ph. D.

CONTACT INFORMATION

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PUBLON: https://publons.com/researcher/3149534/ulas-tezel/

PERFORMANCE SUMMARY

Google Scholar *h-index*:	**27**
Web of Science *h-index*:	**21**
Indexed publications:	**44**
Books & Book chapters:	**7**
PhD students:	**2+3**
MS students:	**10+1**
Citations:	**2836**

EDUCATION

Ph. D.: Major. Environmental Engineering, School of Civil and Environmental Engineering, Georgia Institute of Technology, USA, 2009 (Advisor: Spyros G. Pavlostathis)

Minor. Microbiology, School of Biology, Georgia Institute of Technology, USA (Advisor: Patricia A. Sobecky)

M. S.: Environmental Engineering, Department of Environmental Engineering, Middle East Technical University, Turkey, 2003 (Advisor: Goksel N. Demirer, Co-Advisor: Sibel Uludag-Demirer)

B. S.: Environmental Engineering, Department of Environmental Engineering, Middle East Technical University, Turkey, 2001 (*Summa Cum Laude, first of the Class 2001*)

PROFESSIONAL APPOINTMENTS

Dec 2020 - present	Associate Professor	Bogazici University
Jul 2021 – Jul 2022	Sabbatical	Institut Pasteur, Paris, FR
Jul 2012 – Sept 2012	Visiting Professor	Georgia Institute of Technology, US
Mar 2012 – Jan 2021	Assistant Professor	Bogazici University
Sept 2011 – Mar 2012	Researcher under the E.U. Research Executive Agency Contract	Bogazici University
Feb 2009 - Jul 2010	Postdoctoral Fellow	Georgia Institute of Technology
Aug 2003 - Jan 2009	Research Assistant	Georgia Institute of Technology

RESEARCH INTERESTS AND EXPERTISE

1. Occurrence and fate of micropollutants in the environment
2. Biotransformation of organic pollutants
3. Molecular genetics of bacterial biotransformation reactions
4. Catabolic transposons and plasmids

HONORS, AWARDS AND RECOGNITION

2001	"Academic Achievement Award"	by Department of Environmental Engineering, METU, Turkey
2001	"Academic Achievement Award"	by Middle East Technical University (METU), Turkey
2001-2003	"M.S. Scholarship"	by the Directorate of Human Resources Development, The Scientific and Technical Research Council of Turkey (TUBITAK)
2006	"Best Graduate Student Research Paper Award"	by American Society for Engineering Education
2007	"Graduate Research Symposium Grand Prize"	by GT Student Government Association and GT Auxiliary Services
2007-2008	"Philip R. Karr III Scholarship"	by Georgia Association of Water Professionals
2009	"2008 Outstanding Doctoral Candidate"	by Association of Environmental Engineers and Scientists, GA

2010	"Best Research Poster Award"	by Association of Environmental Engineers and Scientists, GA
2011	"Best Research Poster Award"	by Association of Environmental Engineers and Scientists, GA
2011	"FP7-PEOPLE-Career Integration Grant"	by European Research Council, EU

PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS

2013-present	Turkish Association of Molecular Biology
2014-2016	Association of Environmental Engineering and Science Professors
2009-2010	Water Environment Federation
2007-2010	Georgia Association of Water Professional (GAWP)
2006-present	American Chemical Society
2004-present	American Society for Microbiology
2004-2012	American Association for the Advancement of Science
2004-2010	Association of Environmental Engineers and Scientists
2001-present	Chamber of Environmental Engineers, Union of Chamber of Turkish Engineers and Architects (UCTEA)

PROFESSIONAL ACTIVITIES AND SERVICE

Professional Meetings

1. Fourth National Environmental Engineering Congress, UCTEA Chamber of Environmental Engineers, 7-10 November 2001, Icel, Turkey. (as a speaker)
2. Good Housekeeping: A First Step Towards Eco-Efficiency-Technical Seminar, UCTEA-Chamber of Environmental Engineers and SBA-Sustainable Business Associates, 22-23 October 2001, Ankara, Turkey.
3. Bi-national Seminar on Pollution Prevention and Hazardous Waste Management, Aegean Initiative Program, Fulbright Commission, July 9-12, 2002, Rhodes, Greece.
4. Short Course on "Theory and Application of Anaerobic Treatment", UCTEA Chamber of Environmental Engineers, 14 November 2002, Ankara, Turkey. (as an invited speaker)
5. GAWP Industrial Conference and Expo, Atlanta, GA, March 16-17, 2005.
6. American Society for Microbiology 105th General Meeting, Atlanta, GA, June 2005.
7. GAWP Industrial Conference and Expo, Atlanta, GA, March 15-16, 2006.
8. American Chemical Society 231st National Meeting, Atlanta, GA, March 2006.

9. Carl E. Kindsvater Symposium, Georgia ASCE Environmental and Water Resources Group and Georgia Section ASCE, Atlanta, GA, March 25, 2008.
10. Technical workshop on "Anaerobic Treatment of High-Strength Industrial Wastes", Marquette University, Milwaukee, WI, September 18-19, 2008.
11. American Society for Microbiology 109th General Meeting, Philadelphia, PA, May 2009.
12. 82nd Annual Water Environment Federation Technical Exhibition and Conference (WEFTEC 2009), Orlando, FL, October 10-14, 2009.
13. 10th National Environmental Engineering Congress, UCTEA Chamber of Environmental Engineers, 12-13 September 2013, Ankara, Turkey.
14. 1st Molecular Biology Conference 2013, Turkish Molecular Biology Association, Istanbul, Turkey, 22-23 November, 2013.
15. American Society for Microbiology 114th General Meeting, Boston, MA, May 17-21, 2014.
16. American Chemical Society 251st National Meeting and Exposition, San Diego, CA, March 13-17, 2016.
17. American Chemical Society 252nd National Meeting and Exposition, Philadelphia, PA, Aug 21-25, 2016. Co-organizer of the ENVR Session: Microbial and Molecular Tools to Determine the Fate and Biotransformation of Emerging Contaminants
18. World Federation for Hospital Sterilisation Sciences (WFHS), 18th World Sterilization Congress, Bonn, Germany, Oct 04-07, 2017. (**Invited Speaker**)
19. 4th International Water Congress on "Water Management in Smart Cities", Izmir, Turkey, Nov 02-04, 2017.
20. 10th International Sterilization and Disinfection Congress, Antalya, Turkey, 29 Nov – 3 Dec, 2017. (**Invited speaker**)
21. Water JPI 2nd Conference on "Emerging pollutants in freshwater ecosystems", Helsinki, Finland, June 6-7, 2018.

Reviews

Manuscripts

Journal of Water Resource and Protection
Water, Air, Soil Pollution
International Journal of Global Warming
Journal of Hazardous Materials
Water Quality, Exposure and Health
Chemosphere
Water Science and Technology
Science of the Total Environment
Environmental Science and Technology
Water Research
Scientific Reports

Proposals *The Scientific and Technological Research Council of Turkey (TUBITAK)*
Qatar National Research Fund

Editor

2019-2021 Associate Editor - *The Royal Society Open Science*

Consulting

2009-2010 ConocoPhillips Oil Company – Fate and toxicity of naphthenic acids in wastewater treatment systems

2019-2020 UNDP Marine Invasive and Alien Species (MarIAS) Project – Monitoring IAS using eDNA

TEACHING

Georgia Institute of Technology

Unit Lecturer

1. Microbial Kinetics - CEE 6331 Biological Processes (Spring 2005)
2. Modeling Biological Nutrient Removal Systems with BIOWIN Software - CEE 6331 Biological Processes (Spring 2005)
3. Water Pollution - CEE 2300 Environmental Engineering Principles (Fall 2006) and CEE 4300 Environmental Engineering Systems (Fall 2007)
4. Water Quality Control - CEE 2300 Environmental Engineering Principles (Fall 2006) and CEE 4300 Environmental Engineering Systems (Fall 2007)
5. Implementation of Activated Sludge Model-1 (ASM-1) to MatLab, Biowin® and GPS-X® - CEE 6361 Modeling and Simulation of Biological Treatment Systems (Fall 2009)
6. Modeling Complex Biological Systems - CEE 6331 Biological Processes (Spring 2010)

Undergraduate Mentor

I assisted following undergraduate students in designing and performing experiments and writing research reports during their CEE 4699 Undergraduate Research course

1. Dinh T. “Effect of quaternary ammonium compounds on an aerobic mixed culture” (Summer 2004).
2. Otano G. “Effect of counter-ions on the critical micelle concentration of benzalkonium chloride” (Fall 2006).
3. Cutts R. “Laboratory training” (Summer 2007).
4. Cartwright A. “Effect of counter-ions on the critical micelle concentration of benzalkonium chloride homologues” (Fall 2007).

5. DeRussy A. "Counter ion effect on the toxicity of benzalkonium chlorides" (Spring 2008)
6. Giles H. "Effect of natural organic matter (NOM) on the toxicity of alkyl benzyl dimethyl ammonium chlorides" (Summer 2008)

The Institute of Environmental Sciences – Bogazici University
Instructor

1. ESC 301 – The Environmental Dimensions (Fall 2012, Spring 2013)
2. ESC 550 – Instrumental Methods in Environmental Analysis (Fall 2012 -)
3. ESC 557 – Environmental Microbiology (Spring 2013)
4. ESC 569 – Microbial Biotransformation and Genetics (Fall 2012 -)
5. ESC 315 – Microbes (upcoming in Spring 2022)

RESEARCH SUPERVISION

Georgia Institute of Technology
I assisted the supervision of the M.S. or Ph. D. research of the following students

1. Misiti, T., Ph. D. Research area: Fate and effect of naphthenic acids in biological systems
2. Hajaya, M.G., Ph. D. Research area: Effect of quaternary ammonium compounds on the biological treatment of high strength wastewater: Performance and optimization
3. Watson, M.K. Research area: Biotransformation of ester quaternary ammonium compounds in biological systems

The Institute of Environmental Sciences – Bogazici University
I supervised the research of following M.S. and PhD students

1. Yılmaz F. O., M. S. Thesis: Evaluation of factors affecting the biotransformation of benzalkonium chlorides by *Pseudomonas* spp. (Thesis #382620, December 2014)
2. Emadian S.M., M. S. Thesis: Effect of quaternary ammonium ionic liquids on fermentation of cellulose by bacteria (Thesis #397155, July 2015)
3. Sakarya K.F., M. S. Thesis: Biotransformation of benzalkonium chlorides by immobilized cells of *Pseudomonas* sp. BIOMIG1 (Thesis #397154, July 2015)
4. Gul G., M. S. Thesis: Antibiotic resistant *Pseudomonas sp.* BIOMIG1 protects susceptible bacteria from disinfectants (Thesis #434901, July 2016)
5. Ertekin E., Ph. D. Dissertation: Microbial ecology and genetics of benzalkonium chloride biotransformation in the environment (Thesis #460970, March 2017)
6. Akay C., M. S. Thesis: Biotransformation of acetaminophen by four phylogenetically distinct bacteria and immobilized enzymes of *Rhodococcus erytropolis* BIOMIG-P19 (Thesis #467582, May 2017)

7. Kubilay D.S., M. S. Thesis: Modeling evolution and dissemination of resistance under temporally changing antimicrobial concentration (Thesis #526177, July 2018)
8. Turkoglu-Eken O., M. S. Thesis: Evaluation of micropollutant toxicity in Ergene River during a dry month (Thesis #600295, April 2019)
9. Sertek-Sepitci B., M. S. Thesis: Biodegradation of micropollutants in Ergene River during a dry season (Thesis #581444, August 2019)
10. Karakaya E., M. S. Thesis: Aerobic biodegradation of dominant micropollutants in the Ergene River by a mixed culture of microorganisms and pure cultures of bacteria (Thesis #608095, December 2019)
11. Emadian S.M., Ph. D. Dissertation: Identification of micropollutants in Ergene River and their biotransformation potential under anaerobic conditions (Thesis #612618, December 2019)
12. Altinbag R.C., M. S. Thesis: Complete genome sequencing and analyzing the genes of *Pseudomonas* sp. BIOMIG1^{BAC} (Thesis #684437, June 2021)
13. Sakarya F.K., Ph. D. Dissertation: Wastewater treatment by algae-bacterium consortium (in progress, Co-supervisor)
14. Calisiyor A., Ph. D. Dissertation: The role of mobile genetic elements on the surfactant enhanced bioremediation of petroleum contaminated soil (in progress, Co-supervisor)

All theses can be reviewed at https://tez.yok.gov.tr/

RESEARCH PROJECTS

Researcher

I involved in preparation of proposals, designing and performing experiments and writing the reports for the following projects.

1. **State Planning Organization of Turkey** "Application of Anaerobic Technologies for the Management of Industrial Wastewaters" (P.I.: Goksel N. Demirer/ Middle East Technical University, Turkey), 1998-2001.
2. **The Scientific and Technological Research Council of Turkey** "Removal of Halogenated Compounds with Sequential (Anaerobic/Aerobic) Biological Systems" (P.I.: Goksel N. Demirer/ Middle East Technical University, Turkey), 1998-2001.
3. **The Scientific and Technological Research Council of Turkey** "Treatment of Gaseous Trichloroethylene By Sequential (Biological/Chemical) Reactors" (P.I.: Goksel N. Demirer/ Middle East Technical University, Turkey; Co P. I.: Sibel Uludag-Demirer/ Eskisehir University, Turkey), 2001-2003.
4. **State of Georgia/Traditional Industries Program/FoodPAC** "Assessing the Impact of Quaternary Amine Antimicrobials on Wastewater Inhibition and Wastewater Pretreatment Capacity" (P.I.: J. Pierson/GTRI; Co P.I.: S. G. Pavlostathis/GATech), 2003-2004.

5. **State of Georgia/Traditional Industries Program/FoodPAC** "Selection of Quaternary Ammonium Sanitizers for Improved DAF Flocculant Performance, Skimmings Quality and Biosolids Management" (P.I.: S. G. Pavlostathis/GATech; Co P.I.: J. Pierson/GTRI), 2004-2005.
6. **Pinellas County/Carollo Engineers** "Two-phase, Mesophilic and Thermophilic Anaerobic Sludge and FOG Digestion for Maximum Biogas Production" (2005-2006) (P. I.: S. G. Pavlostathis/GATech), 2005-2007.
7. **Poultry Protein & Fat Council/U.S. Poultry & Egg Association** "Cold Treatment of Raw Secondary Poultry Nutrient for Improved Dewatering, Storage, and Quality" (P.I.: S. G. Pavlostathis/GATech; Co P.I.: J. Pierson/GTRI), 2006-2007.
8. **National Science Foundation/BES-SGER Environmental Engineering and Technology Program** "Role of Anaerobic Digestion in *N*-Nitrosodimethylamine (NDMA) Formation in Municipal Wastewater Treatment Plants: Source or Sink" (P. I.: S. G. Pavlostathis/GATech; Co P.I.: C-H. Huang/GATech), 2006-2007.
9. **Gwinnett County/Lawrenceville, GA** "Conversion Strategies and Evaluation of the Transition from Mesophilic to Thermophilic Anaerobic Sludge Digestion" (P. I.: S. G. Pavlostathis/GATech), 2007-2008.
10. **ConocoPhillips** "Fate and Effect of Naphthenic Acids on the Biological Wastewater Treatment Processes in Oil Refineries" (P. I.: S. G. Pavlostathis/GATech), 2008-2010.
11. **National Science Foundation/CBET Environmental Engineering and Technology Program** "Disinfectant Induced Antibiotic Resistance: Relevance, Mechanisms and Practical Considerations" (P. I.: S. G. Pavlostathis/GATech; Co P.I.: K. T. Konstantinidis /GATech), 2010-2013.

Principal Investigator

12. **European Research Executive Agency FP7-PEOPLE-Marie Curie-Career Integration Grant** "Role of biotransformation on the dynamics of antimicrobial resistance" (P. I.: U. Tezel), 2011-2015.
13. **Bogazici University Scientific Research Projects Fund** "Identification and evaluation of the factors affecting the biotransformation of quaternary ammonium compounds in biological systems" (P.I.: Ulas Tezel), 2012-2015.
14. **Bogazici University Scientific Research Projects Fund** "On the track of the "Super Bug": Microbial ecology and genetics of disinfectant biotransformation" (P.I.: Ulas Tezel), 2013-2014.
15. **The Scientific and Technological Research Council of Turkey** "Development of enzyme bioreactors for the advanced treatment of wastewater containing antimicrobial chemicals" (P.I.: Ulas Tezel), 2014-2017.
16. **Bogazici University Scientific Research Projects Fund** "Biotransformation

potential and pathways of antibiotics by *Pseudomonas sp.* BIOMIG1" (P.I.: Ulas Tezel), 2014-2016.

17. **The Scientific and Technological Research Council of Turkey** "Development of a geographical information systems based decision-making tool for water quality management of Ergene watershed using pollutant fingerprints" (P.I.: Ulas Tezel), 2016-2019.
18. **Istanbul Development Agency, Innovative Istanbul Financial Assistance Program** "Istanbul Algal Biotechnology Research and Development Center", (P.I.: Berat Z. Haznedaroglu, co-PIs: Burak Demirel, Turgut Onay, Emre Otay, Ulas Tezel), 2015-2016.
19. **Bogazici University Scientific Research Projects Fund** "Development of a multiresidue analysis for agricultural soils", (P.I.: Isil Balcioglu, co-PI: Ulas Tezel), 2017-2018.
20. **Ministry of Science, Industry and Technology & Directorate General for EU and Foreign Affairs Department of EU Financial Programmes, Competitiveness and Innovation Sector Operational Programme (CISOP)** "Integrated Biorefinery Concept for Bioeconomy Driven Development (INDEPENDENT)", (Award ID: EuropeAid/140111/IH/SUP/TR) (P.I.: Berat Z. Haznedaroglu, co-PI: Ulas Tezel) 2019-2022.
21. **Bogazici University Scientific Research Projects Fund** "Complete genome sequencing and annotation of *Pseudomonas* sp. BIOMIG1", (P.I.: Ulas Tezel), 2019-2020.
22. **Bogazici University Scientific Research Projects Fund** "Determination of Mobile Genetic Element of *QxyA* Gene Cluster and Its Ecophylogenetic Analysis", (P.I.: Ulas Tezel), 2020-2021.
23. **CHIST-ERA** "Sustainable Watershed Management Through IoT-Driven Artificial Intelligence (SWAIN)", (co-PI: Ulas Tezel), 2021-2024.
24. **Bogazici University Scientific Research Projects Fund** "Occurrence of Organic Disinfectants and Their Biodegradation Potential in Türkiye's Rivers During a Year of SARS-CoV2 Pandemic", (P.I.: Ulas Tezel), 2022-2023.

PUBLICATIONS

Theses

1. **Tezel U.** "Treatment of gaseous trichloroethylene by sequential biotic and abiotic removal mechanisms", M. S. Thesis, Middle East Technical University, Ankara, Turkey, 2003.
2. **Tezel U.** "Fate and effect of quaternary ammonium compounds in biological systems", Ph. D. Thesis, Georgia Institute of Technology, Atlanta, GA, 2009.

(http://smartech.gatech.edu/handle/1853/28229)

Books and Book Chapters

1. **Tezel U.**, Tandukar M., and Pavlostathis S.G. 2011. Anaerobic Biotreatment of Municipal Sewage Sludge. In ***Comprehensive Biotechnology*** *(2nd eds.)*, Moo-Young M. and Agathos S. (eds), Vol.6: 447-461, Elsevier Sci. LTD. (ISBN: 978-0-444-53352-4)
2. **Tezel U.**, and Pavlostathis S.G. 2012. The Role of Quaternary Ammonium Compounds on Antimicrobial Resistance in the Environment. In ***Antimicrobial Resistance in the Environment***, Keen P. L. and Montforts M. H. M. M. (eds), Chapter 20: 349-387, John Wiley & Sons. (ISBN: 978-0-470-90542-5)
3. Cecen F. and **Tezel U.** 2017. Hazardous Pollutants in Biological Treatment Systems: Fundamentals and a Guide to Experimental Research. IWA Publishing. (9781780407708) (**Editor**)
4. Cecen F., **Tezel U.**, and Alpaslan Kocamemi B. 2017. Experimental Assessment of the Inhibitory Effect and Biodegradation of Hazardous Pollutants. ***In Hazardous Pollutants in Biological Treatment Systems: Fundamentals and a Guide to Experimental Research***, Cecen F. and Tezel U. (eds), Chapter 5: 183-238, . IWA Publishing.
5. Haznedaroglu B.Z., and **Tezel U.** 2017. Integrating Microbial and Molecular Tools to Determine the Fate and Impact of Hazardous Pollutants. ***In Hazardous Pollutants in Biological Treatment Systems: Fundamentals and a Guide to Experimental Research***, Cecen F. and Tezel U. (eds), Chapter 7: 265-312, IWA Publishing.
6. **Tezel U.** 2017. Future Aspects of Hazardous Pollutants and Their Biological Removal. ***In Hazardous Pollutants in Biological Treatment Systems: Fundamentals and a Guide to Experimental Research***, Cecen F. and Tezel U. (eds), Chapter 9: 359-366, IWA Publishing.
7. Ozcelik, D., Koray Sakarya, F., Tezel, U., and Haznedaroglu, B. Z. 2022. Recent advancements in algae–bacteria consortia for the treatment of domestic and industrial wastewater. In, ***Integrated Wastewater Management and Valorization Using Algal Cultures,*** G. N. Demirer and S. Uludag-Demirer (eds.), Chapter 2: 13-50, Elsevier.

Refereed Journal Publications

1. Demirer G.N., Duran M., Erguder T. H., Guven E., Ugurlu O., and **Tezel U.** 2000. Anaerobic treatability and biogas production potential studies of different agro-industrial wastewaters in Turkey, ***Biodegradation***, 11(6): 401-405.
2. Erguder T. H., **Tezel U.**, Guven E., and Demirer G. N. 2001. Anaerobic biotransformation and methane generation potential of cheese whey in batch and UASB reactors, ***Waste Management***, 21(7): 643-650.

3. **Tezel U.**, Guven E., Erguder T. H., and Demirer G. N. 2001. Sequential (anaerobic/aerobic) biological treatment of Dalaman SEKA pulp and paper industry effluent, ***Waste Management***, 21(8): 717-724.
4. **Tezel U.**, Demirer G. N., and Uludag-Demirer S. 2004. Treatment of gaseous trichloroethylene by sequential (biological/chemical) reactor system, ***Turkish Journal of Engineering and Environmental Science***, 28: 289-296.
5. **Tezel U.**, Demirer G. N., and Uludag-Demirer S. 2005. Control of trichloroethylene emissions from sparging systems by horizontal bio- and chemo- barriers, ***Environmental Technology***, 26(2): 171-178.
6. Tugtas A. E., **Tezel U.**, and Pavlostathis S. G. 2006. An extension of the Anaerobic Digestion Model No. 1 to include the effect of nitrate reduction process, ***Water Science and Technology***, 54(4): 41-49.
7. **Tezel U.**, Pierson J., and Pavlostathis S. G. 2006. Fate and effect of quaternary ammonium compounds on a mixed methanogenic culture, ***Water Research***, 40(19): 3660-3668.
8. **Tezel U.**, Pierson J., and Pavlostathis S. G. 2007. Effect of polyelectrolytes and quaternary ammonium compounds on the anaerobic biological treatment of poultry processing wastewater, ***Water Research***, 41(6): 1334-1342.
9. **Tezel U.**, Pierson J., and Pavlostathis S. G. 2008. Effect of didecyl dimethyl ammonium chloride on nitrate reduction in a mixed methanogenic culture, ***Water Science and Technology***, 57(4): 541-546.
10. Kabouris J. C., **Tezel U.**, and Pavlostathis S. G., Engelmann M., Todd A. C., and Gillette R. A. 2008. The anaerobic biodegradability of municipal sludge and FOG under mesophilic conditions, ***Water Environment Research***, 8(3): 212-221.
11. **Tezel U.**, and Pavlostathis S. G. 2009. Transformation of benzalkonium chloride under nitrate reducing conditions, ***Environmental Science and Technology***, 43(5): 1342-1348.
12. Padhye L., **Tezel U.**, Mitch W., Pavlostathis S. G., and Huang C-H. 2009. Occurrence and fate of nitrosamines and their precursors in municipal sludge and anaerobic digestion systems, ***Environmental Science and Technology***, 43(9): 3087-3093.
13. Kabouris J. C., **Tezel U.**, Pavlostathis S. G., Engelmann M., Dulaney J. A., Todd A. C., and Gillette R. A. 2009. Mesophilic and thermophilic anaerobic digestion of municipal sludge and FOG, ***Water Environment Research***, 81(5): 476-485.
14. Kabouris J. C., **Tezel U.**, Pavlostathis S. G., Engelmann M., Dulaney J. A., Todd A. C., and Gillette R. A. 2009. Methane recovery from the anaerobic codigestion of municipal sludge and FOG, ***Bioresource Technology***, 100(15): 3701-3705.
15. Tugtas A. E., **Tezel U.** and Pavlostathis S. G. 2010. A comprehensive model of simultaneous denitrification and methanogenic fermentation processes, ***Biotechnology and Bioengineering***, 105(1): 98-108.

16. Ismail Z. Z., **Tezel U.**, and Pavlostathis S. G. 2010. Sorption of quaternary ammonium compounds to municipal sludge, ***Water Research***, 44(7): 2303-2313.
17. Zhang C., **Tezel U.**, Li K., Liu D., Ren R., Du J., and Pavlostathis S. G. 2011. Evaluation and modeling of benzalkonium chloride inhibition and biodegradation in activated sludge, ***Water Research***, 45(3): 1238-1246.
18. Hajaya M. G., **Tezel U.**, and Pavlostathis S. G. 2011. Effect of temperature and benzalkonium chloride on nitrate reduction, ***Bioresource Technology*** 102(8): 5039-5047.
19. **Tezel U.**, Padhye L., Huang C-H., and Pavlostathis S. G. 2011. Biotransformation of nitrosamines and precursor secondary amines under methanogenic conditions, ***Environmental Science and Technology*** 45(19): 8290-8297.
20. Watson M. K., **Tezel U.**, and Pavlostathis S. G. 2012. Biotransformation of alkanoylcholines by a mixed methanogenic culture, ***Water Research*** 46(9): 2947-2956.
21. **Tezel U.**, Tandukar M., Martinez R. J., Sobecky P. A. and Pavlostathis S. G. 2012. Aerobic biotransformation of *n*-tetradecylbenzyldimethylammonium chloride by an enriched *Pseudomonas* spp. community, ***Environmental Science and Technology*** 46(16): 8714-8722.
22. Misiti T., Tandukar M., **Tezel U.**, and Pavlostathis S. G. 2013. Inhibition and biotransformation potential of naphthenic acids under different electron accepting conditions, ***Water Research*** 47(1): 406-418.
23. Misiti T., **Tezel U.**, and Pavlostathis S. G. 2013. Fate and effect of naphthenic acids on oil refinery activated sludge wastewater treatment systems, ***Water Research*** 47(1): 449-460.
24. Misiti T., **Tezel U.**, Tandukar M., and Pavlostathis S. G. 2013. Aerobic biotransformation potential of a commercial mixture of naphthenic acids, ***Water Research*** 47(15): 5520-5534.
25. Tandukar M., Oh S., **Tezel U.**, Konstantinidis K. T., and Pavlostathis S. G. 2013. Long-term exposure to benzalkoniun chloride disinfectants results in change of microbial community structure and increased antimicrobial resistance, ***Environmental Science and Technology*** 47(17): 9730-9738.
26. Hong J., **Tezel U.**, Okutman Tas D., and Pavlostathis S. G. 2013. Influence of quaternary ammonium compounds on the microbial reductive dechlorination of pentachloroaniline, ***Water Research*** 47(17): 6780-6789.
27. Padhye L. P., and **Tezel U.** 2013. Fate of environmental pollutants, ***Water Environment Research*** 85(10): 1734-1785.
28. Misiti T., **Tezel U.**, and Pavlostathis S. G. 2014. Effect of alkyl side chain location and cyclicity on the aerobic biotransformation of naphthenic acids, ***Environmental Science and Technology*** 48(14): 7909-7917.

29. **Tezel U.**, Tandukar M., Hajaya M. G., and Pavlostathis S. G. 2014. Transition of municipal sludge anaerobic digestion from mesophilic to thermophilic and long-term performance evaluation, ***Bioresource Technology*** 170: 385-394.
30. Padhye L. P., and **Tezel U.** 2014. Fate of environmental pollutants, ***Water Environment Research*** 86(10): 1714-1773.
31. Yang J., **Tezel U.**, Li K., and Pavlostathis S. G. 2015. Prolonged exposure of mixed aerobic cultures to low temperature and benzalkonium chloride affect the rate and extent of nitrification, ***Bioresource Technology*** 179: 193-201.
32. **Tezel U.**, Pavlostathis S. G. 2015. Quaternary ammonium disinfectants: microbial adaptation, degradation and ecology, ***Current Opinion in Biotechnology*** 33: 296-304.
33. Ertekin E., Hatt J. K., Konstantinidis K. T. and **Tezel U.** 2016. Similar microbial consortia and genes are involved in the biodegradation of benzalkonium chlorides in different environments, ***Environmental Science and Technology*** 50: 4304-4313.
34. Ertekin E., Konstantinidis K. T. and **Tezel U.** 2017. A Rieske-type oxygenase of *Pseudomonas sp.* BIOMIG1 converts benzalkonium chlorides to benzyldimethyl amine, ***Environmental Science and Technology*** 51: 175-181. (**cover page of ES&T**)
35. Kim M., Weigand M. R., Oh S., Hatt J. K., Krishnan R., **Tezel U.**, Pavlostathis S. G., and Konstantinidis K. T. 2018. Widely used benzalkonium chloride disinfectants can promote antibiotic resistance, ***Applied and Environmental Microbiology*** 84:e01201-18.
36. Yilmaz F.O., Ertekin E., and **Tezel U.** 2019. Biotransformation kinetics of benzalkonium chlorides by *Pseudomonas* sp. BIOMIG1 under different conditions, ***Pamukkale University Journal of Engineering Sciences***, 25(3): 286-291.
37. **Tezel U.**, and Sepitci B. 2019. Testing the biodegradability of priority and emerging contaminants as a mixture, ***Sakarya University Journal of Sciences***, 23(2): 184-192.
38. Mesta B., Kargi P.G., Tezyapar I., Ayvaz M.T., Goktas R.K., Kentel E. and **Tezel U.** 2019. Determination of rainfall-runoff relationship in Yenicegoruce Basin with HEC-HMS hydrologic model. ***Pamukkale University Journal of Engineering Sciences,*** 25(8), 949-955.
39. Akay C., and **Tezel U.** 2020. Biotransformation of acetaminophen by intact cells and crude enzymes of bacteria: A comparative study and modelling, ***Science of the Total Environment*** 703: 1-11.
40. Altinbag R.C., Ertekin E. and **Tezel U**. 2020. Complete genome sequence of *Pseudomonas* sp. BIOMIG1 phenotype that mineralizes benzalkonium chloride disinfectants, ***Microbiology Resource Announcements***, (doi: 10.1128/MRA.00309-20).

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2. Demirer G. N., Duran M., Guven E., Ugurlu O., Erguder T. H., **Tezel U.**, Sen S., Korkusuz E.A., Varolan N., Demirci G., Capar G., Acuner E., and Sahinkaya E. "An example for biomass energy: Biogas production from organic wastes by anaerobic methods", ***Third National Clean Energy Symposium***, Istanbul Technical University and Clean Energy Foundation, 15-17 November 2000, Istanbul, Turkey, 467-474. (in Turkish)
3. Demirer G. N., Duran M., Erguder T. H., Guven E., Ugurlu O., and **Tezel U.** "Anaerobic treatability and biogas production of different agro-industrial wastewaters in Turkey", ***4th International Symposium on Environmental Biotechnology***, EFB and IWA, 10-12 April 2000, Noordwijkerhout, The Netherlands.
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4. **Tezel U.**, and Pavlostathis S. G. "Quaternary ammonium compounds: Fate, antibiotic resistance and toxicity in anoxic/anaerobic systems", ***GATech Graduate Student Symposium***, Atlanta, Georgia, March 9, 2007. (poster)
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17. Ertekin E. and **Tezel U.** "A novel oxygenase detoxifies benzalkonium chlorides in the environment", ***252nd American Chemical Society National Meeting and Exposition,*** Division of Environmental Chemistry (ENVR), Session: Microbial and Molecular Tools to Determine the Fate and Biotransformation of Emerging Contaminants, Philadelphia, PA, August 21-25, 2016. (oral presentation)
18. Ertekin E., Konstantinidis K. T., and **Tezel U.** "A Rieske oxygenase detoxifies disinfectants in the environment", ***16th International Symposium on Microbial Ecology (ISME16) International Society for Microbial Ecology,*** Session: Bioremediation: working with natural microbial communities to improve water and soil quality, Montreal, Canada, August 21-26, 2016. (oral presentation)
19. **Tezel U.**, Ertekin E., Gul G. "Relationship between disinfectants and antibiotic resistance: A new dimension in 'Superbug'", ***World Federation for Hospital Sterilisation Sciences (WFHS), 18th World Sterilization Congress***, Bonn, Germany, Oct 04-07, 2017. (**Invited Speaker**)
20. **Tezel U.**, Ertekin E., Gul G. "Relationship between disinfectants and antibiotic resistance: A new dimension in 'Superbug'" ***10th International Sterilization and Disinfection Congress***, Antalya, Turkey, 29 Nov – 3 Dec, 2017. (**Invited speaker**)
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