

# BÜLENT İÇGEN

## PROF.

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: F-2958-2012

ScopusID: 6602948754

Yoksis Researcher ID: 32740



## Biography

**Professor Bulent İÇGEN** received his MSc. and PhD. in Biotechnology at Middle East Technical University (METU) of Ankara in 1994 and 2000, respectively. He conducted two-year-post-doctoral research at the Department of Chemical Engineering, Bioprocess Engineering Research Unit of University of Cape Town (UCT) in South Africa. He has been a faculty at METU in the Department of Environmental Engineering since 2012. Meanwhile, as a visiting faculty, he visited Princeton University (PU) Department of Civil and Environmental Engineering and Massachusetts Institute of Technology (MIT) Department of Earth, Atmospheric and Planetary Sciences (EAPS) in 2011 and 2015, respectively. His interests lie in the fascinating and often complex array of processes taking place in microbial environment and the behaviour of the microorganisms under different environmental conditions. He particularly enjoys looking at systems from environmental and microbial biotechnology perspective, trying to tease out the key relationships between consortiums. He likes using molecular biological methods to investigate the occurrence and distribution of bacteria in the environment in order to provide direct information on community structure for variety of environmental and industrial applications. His team focuses on waste-to-energy biotechnology, biogas plants, digestate treatment and biomass-to-energy plants.

## Learning Knowledge

Post Doctorate 2003 - 2005	University of Cape Town, Faculty of Engineering, Chemical Engineering, South Africa
Doctorate 1995 - 2000	Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biotechnology, Turkey
Postgraduate 1991 - 1994	Middle East Technical University, Graduate School of Natural and Applied Sciences, Biotechnology, Turkey
Undergraduate 1986 - 1990	Hacettepe University, Fen Fakültesi, Biyoloji Bölümü, Turkey

## Foreign Languages

German, B2 Upper Intermediate  
English, C1 Advanced

## Dissertations

Doctorate, Characterization of local Salmonella enteritidis isolates of chicken, egg, and human origin., Middle East Technical University, Graduate School of Natural and Applied Sciences, Biotechnology, 2000

Postgraduate, Characterization of various rhizobium cicer strains and assesment of their symbiotic effectiveness, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biotechnology, 1994

## Academic Titles / Tasks

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Professor 2017 - Continues	Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering
Associate Professor 2015 - 2017	Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering
Assistant Professor 2012 - 2015	Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering

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## Supported Projects

1. İÇGEN B., TUBITAK Project, Hastane Atık Sularındaki Antibiyotik Direnç Genlerinin Yayılımlarının Analizi, 2018 - 2019
2. İÇGEN B., AYDIN D. C., Project Supported by Higher Education Institutions, KEROLEN PARÇALAYAN BAKTERİLERDE BİYOSÜRFEKTAN KARAKTERİZASYONU, 2017 - 2017
3. İÇGEN B., Project Supported by Higher Education Institutions, Petrol Kaynaklı Hidrokarbonlarla Kirlenmiş Yüzey Sularından İzole Edilen Bakterilerin Benzen Biyodegradasyon Yeteneklerinin Belirlenmesi, 2016 - 2016
4. İÇGEN B., TUBITAK Project, Vankomisin Direnç Genlerinin Dna Problemleri İle Yüzey Sularında İn Situ Olarak Takip Edilmesi, 2015 - 2016
5. İÇGEN B., Project Supported by Higher Education Institutions, Hidrokarbon Kirliliği Gösteren Yüzey Sularından Hidrokarbon Degredasyonunda Etkin Bakterilerin İzole Edilmesi ve Dgredasyon Yeteneklerinin Belirlenmesi, 2015 - 2015
6. İÇGEN B., Project Supported by Higher Education Institutions, Deterjan Kirliliği Gösteren Yüzey Sularından Anyonik Deterjan Degredasyonunda Etkin Bakterilerin İzole Edilmesi ve Degredasyon Yeteneklerinin Belirlenmesi, 2015 - 2015
7. İÇGEN B., TUBITAK Project, Meca Spesifik DNA Probu Kullanarak Nehir Suyunda MRSA İzlenmesi, 2013 - 2015
8. İÇGEN B., Onur G., Erdem Ç. U., Project Supported by Higher Education Institutions, Yüzey sularında cadmium direnç genlerinin metagenomik analizi, 2014 - 2014
9. İÇGEN B., Project Supported by Higher Education Institutions, Stronsiyum remidasyonunda kullanılabilir lokal bakterilerin izolasyonu, tanımlanması ve moleküler karakterizasyonu, 2013 - 2013
10. İÇGEN B., TUBITAK Project, The cytotoxic and apoptotic effect of Endemic Centaurea antitauri Hayek Centaurea fenzi Reichardt Centaurea stapfiana Hand Mazz Wagenitz species on colon and breast cancer cell lines, 2011 - 2013
11. İÇGEN B., TUBITAK Project, Isolation and identification of mercury resistant bacteria from Kırıkkale Kızılırmak, 2011 - 2012

12. İÇGEN B., Project Supported by Other Official Institutions, Molecular characterization and bioremediation ability of silver- and strontium-resistant bacteria isolated from Kırıkkale-Kızılırmak, 2011 - 2012
13. İÇGEN B., Other International Funding Programs, The use of molecular techniques (FISH) for microbial species identification and population shifts as a function of environmental and culture conditions, 2003 - 2006
14. İÇGEN B., Other International Funding Programs, Heavy metal precipitation by sulphide and bicarbonate: evaluating methods to predict anaerobic digester overflow performance, 2003 - 2005
15. İÇGEN B., Project Supported by Other Official Institutions, Plasmid diversity in Salmonella enteritidis of chicken, egg, and human origin, 1998 - 1999

## Awards

1. İÇGEN B., Akademik Performans Ödülü, ODTÜ, September 2016
2. İÇGEN B., Akademik Performans Ödülü, ODTÜ, September 2014

## Scholarships

Visiting Scientist Research Fellowship, YOK, 2011 - 2011

Postdoctoral Research Fellowship, Official Institutions of Foreign Countries, 2003 - 2005

## Jury Memberships

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Orta Doğu Teknik Üniversitesi, July, 2024

Post Graduate, Post Graduate, Hacettepe University, June, 2024

Post Graduate, Post Graduate, Middle East Technical University, December, 2023

Post Graduate, Post Graduate, Middle East Technical University, December, 2023

Post Graduate, Post Graduate, Middle East Technical University, December, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, UAK, December, 2023

Doctoral Examination, Doctoral Examination, Hacettepe University, June, 2023

Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, September, 2022

Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, August, 2022

Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, August, 2022

Associate Professor Exam, Associate Professor Exam, Hacettepe Üniversitesi, May, 2022

Associate Professor Exam, Associate Professor Exam, Fırat Üniversitesi, December, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Adana Alparslan Türkeş Bilim Ve Teknoloji Üniversitesi, December, 2021

Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, September, 2021

Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, September, 2021

Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, August, 2021

Associate Professor Exam, Associate Professor Exam, Van Yüzüncü Yıl Üniversitesi, July, 2021

Associate Professor Exam, Associate Professor Exam, Adana Alparslan Türkeş Science And Technology University, March, 2021

Associate Professor Exam, Associate Professor Exam, Adana Alparslan Türkeş Science And Technology University, December, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, November, 2020

Associate Professor Exam, Associate Professor Exam, Boğaziçi Üniversitesi, August, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, August, 2020  
Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, December, 2019  
Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, September, 2019  
Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, August, 2019  
Associate Professor Exam, Associate Professor Exam, Sakarya Üniversitesi, August, 2019  
Post Graduate, Post Graduate, Middle East Technical University, July, 2019  
Post Graduate, Yüksek Lisans Tez Jürisi, ODTÜ , January, 2019  
Post Graduate, Yüksek Lisans Tez Jürisi, ODTÜ , December, 2018  
Award, Prof.Dr. Mustafa N. Parlar Eğitim ve Araştırma Vakfı Araştırma Teşvik Ödülleri, ODTÜ Prof.Dr. Mustafa N. Parlar Eğitim ve Araştırma Vakfı, June, 2018  
Award, TÜBİTAK Bilim, Özel, Hizmet ve Teşvik Ödülleri, TÜBİTAK , May, 2018

## Designed Lessons

İçgen B., Environmental Applications of Biomolecular Engineering, Postgraduate, 2013 - 2014  
İçgen B., Molecular Tools in Environmental Engineering , Undergraduate, 2013 - 2014

## Published journal articles indexed by SCI, SSCI, and AHCI

- 1. Wastewater treatment plants discharges disseminated more *Giardia* than *Cryptosporidium***  
Onursal A., İçgen B.  
WATER ENVIRONMENT RESEARCH, vol.95, no.2, 2023 (SCI-Expanded)
- 2. Two-stage anaerobic digestion of ozonated sewage sludge predominantly took over by acetotrophic methanogens with increased biogas and methane production**  
Akçakaya M., Tuncay S., İçgen B.  
Fuel, vol.317, 2022 (SCI-Expanded)
- 3. Ozonation of sewage sludge prior to anaerobic digestion led to Methanosaeta dominated biomethanation**  
Tuncay S., Akçakaya M., İçgen B.  
Fuel, vol.313, 2022 (SCI-Expanded)
- 4. intI1 Type Mobile Genetic Elements Co-selected Antibiotic-Resistant Genes in Untreated Hospital Wastewaters**  
Kayali O., İçgen B.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.106, no.2, pp.399-405, 2021 (SCI-Expanded)
- 5. Monorhamnolipids Predominance among Kerosene Degraders**  
Aydın D. C., İçgen B.  
JOURNAL OF ENVIRONMENTAL ENGINEERING, vol.146, 2020 (SCI-Expanded)
- 6. Removal of antibiotic resistance genes in various water resources recovery facilities**  
Kucukunsal S., İçgen B.  
WATER ENVIRONMENT RESEARCH, vol.92, no.6, pp.911-921, 2020 (SCI-Expanded)
- 7. Untreated HWWs Emerged as Hotspots for ARGs**  
Kayali O., İçgen B.  
Bulletin of Environmental Contamination and Toxicology, vol.104, no.3, pp.386-392, 2020 (SCI-Expanded)
- 8. Aerobic Bacterial Degradation With Their Relative Pathways for Efficient Removal of Individual BTEX Compounds**  
Yavas A., İçgen B.

CLEAN-SOIL AIR WATER, vol.46, 2018 (SCI-Expanded)

9. **Diversity of the Aromatic-Ring-Hydroxylating Dioxygenases in the Monoaromatic Hydrocarbon Degraders Held by a Common Ancestor**  
Yavas A., İçgen B.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.101, pp.410-416, 2018 (SCI-Expanded)
10. **Biosorption of Strontium from Aqueous Solutions by *Micrococcus luteus* Sr02**  
İçgen B., Yılmaz F.  
GEOMICROBIOLOGY JOURNAL, vol.35, pp.284-293, 2018 (SCI-Expanded)
11. **Gas chromatographic analyses of kerosene bioremediation displayed distinctive pattern of n-alkane degradation**  
Aydın D. C., İçgen B.  
PETROLEUM SCIENCE AND TECHNOLOGY, vol.36, pp.1905-1912, 2018 (SCI-Expanded)
12. **Higher alkyl sulfatase activity required by microbial inhabitants to remove anionic surfactants in the contaminated surface waters**  
İçgen B., Salik S. B., Goksu L., Ulusoy H., Yılmaz F.  
WATER SCIENCE AND TECHNOLOGY, vol.76, pp.2357-2366, 2017 (SCI-Expanded)
13. **vanA Gene Harboring Enterococcal and Non-enterococcal Isolates Expressing High Level Vancomycin and Teicoplanin Resistance Reservoired in Surface Waters**  
Nakipoğlu M., Yılmaz F., İçgen B.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.98, pp.712-719, 2017 (SCI-Expanded)
14. **Screening and In Situ Monitoring of Potential Petroleum Hydrocarbon Degraders in Contaminated Surface Water**  
İçgen B., Yılmaz F.  
CLEAN-SOIL AIR WATER, vol.45, 2017 (SCI-Expanded)
15. **vanA-targeted oligonucleotide DNA probe designed to monitor vancomycin- and teicoplanin-resistant bacteria in surface waters**  
Nakipoğlu M., Yılmaz F., İçgen B.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.188, 2016 (SCI-Expanded)
16. **VanA-Type MRSA (VRSA) Emerged in Surface Waters**  
İçgen B.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.97, pp.359-366, 2016 (SCI-Expanded)
17. **Methicillin-Resistant Bacteria Inhabiting Surface Waters Monitored by mecA-Targeted Oligonucleotide Probes**  
Seyedmonir E., Yılmaz F., İçgen B.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.97, pp.261-271, 2016 (SCI-Expanded)
18. **Bioattenuation of Detergent Plant Effluents Enhanced via Single Microbial Augmentations**  
İçgen B., Salik S. B., Goksu L., Ulusoy H., Yılmaz F.  
JOURNAL OF SURFACTANTS AND DETERGENTS, vol.19, pp.637-644, 2016 (SCI-Expanded)
19. **Use of cadA-Specific Primers and DNA Probes as Tools to Select Cadmium Biosorbents with Potential in Remediation Strategies**  
İçgen B., Yılmaz F.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.96, pp.685-693, 2016 (SCI-Expanded)
20. **Design a cadA-targeted DNA probe for screening of potential bacterial cadmium biosorbents**  
İçgen B., Yılmaz F.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.23, pp.5743-5752, 2016 (SCI-Expanded)
21. **mecA Gene Dissemination Among Staphylococcal and Non-staphylococcal Isolates Shed in Surface Waters**  
Seyedmonir E., Yılmaz F., İçgen B.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.95, pp.131-138, 2015 (SCI-Expanded)
22. **Diesel Oil Degradation Potential of a Bacterium Inhabiting Petroleum Hydrocarbon Contaminated Surface Waters and Characterization of Its Emulsification Ability**

- Onur G., Yilmaz F., İçgen B.  
JOURNAL OF SURFACTANTS AND DETERGENTS, vol.18, pp.707-717, 2015 (SCI-Expanded)
23. **Challenging tin toxicity by a novel strain isolated from freshwaters**  
Cerit S., YILMAZ F., İÇGEN B.  
DESALINATION AND WATER TREATMENT, vol.53, no.12, pp.3244-3252, 2015 (SCI-Expanded)
24. **Co-occurrence of Antibiotic and Heavy Metal Resistance in Kizilirmak River Isolates**  
İÇGEN B., YILMAZ F.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.93, no.6, pp.735-743, 2014 (SCI-Expanded)
25. **Characterization of SDS-degrading Delftia acidovorans and in situ monitoring of its temporal succession in SDS-contaminated surface waters**  
YILMAZ F., İÇGEN B.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.21, no.12, pp.7413-7424, 2014 (SCI-Expanded)
26. **Surface water isolates of hemolytic and non-hemolytic Acinetobacter with multiple drug and heavy metal resistance ability**  
Akbulut S., Yilmaz F., İÇGEN B.  
JOURNAL OF WATER AND HEALTH, vol.12, no.1, pp.1-12, 2014 (SCI-Expanded)
27. **Surface Water-Borne Multidrug and Heavy Metal-Resistant Staphylococcus Isolates Characterized by 16S rDNA Sequencing**  
Yilmaz F., Orman N., Serim G., Kochan C., Ergene A., İÇGEN B.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.91, no.6, pp.697-703, 2013 (SCI-Expanded)
28. **Multidrug and Heavy Metal-Resistant Raoultella planticola Isolated from Surface Water**  
Koc S., Kabatas B., İÇGEN B.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.91, no.2, pp.177-183, 2013 (SCI-Expanded)
29. **Characterization of lead-resistant river isolate Enterococcus faecalis and assessment of its multiple metal and antibiotic resistance**  
Aktan Y., Tan S., İÇGEN B.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.185, no.6, pp.5285-5293, 2013 (SCI-Expanded)
30. **Biochemical and Molecular Characterization of Strontium-resistant Environmental Isolates of Pseudomonas fluorescens and Sphingomonas paucimobilis**  
Ozer G., Ergene A., İçgen B.  
GEOMICROBIOLOGY JOURNAL, vol.30, pp.381-390, 2013 (SCI-Expanded)
31. **Real-Time PCR Investigation of the Dynamic Expression of Three "RNA Processing and Modification" Genes of Phanerochaete chrysosporium Exposed to Lead**  
Tekin E., İçgen B., Özcengiz G.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.90, pp.27-33, 2013 (SCI-Expanded)
32. **Pretreatment of poultry litter improves Bacillus thuringiensis-based biopesticides production**  
Ozcan O., Içgen B., Özcengiz G.  
BIORESOURTE TECHNOLOGY, vol.101, pp.2401-2404, 2010 (SCI-Expanded)
33. **A study of the relative dominance of selected anaerobic sulfate-reducing bacteria in a continuous bioreactor by fluorescence in situ hybridization**  
Içgen B., Moosa S., Harrison S.  
Microbial Ecology, vol.53, pp.43-52, 2007 (SCI-Expanded)
34. **Identification of population dynamics in sulfate-reducing consortia on exposure to sulfate**  
Içgen B., Harrison S.  
Research in Microbiology, vol.157, pp.922-927, 2006 (SCI-Expanded)
35. **Exposure to sulfide causes populations shifts in sulfate-reducing consortia**  
Içgen B., Harrison S.  
Research in Microbiology, vol.157, pp.784-791, 2006 (SCI-Expanded)

36. **Colicinogeny in local isolates of salmonellae and plasmid transfer studies**  
Elpek G., İçgen B., Özcengiz G.  
FOLIA MICROBIOLOGICA, no.2, pp.257-260, 2003 (SCI-Expanded)
37. **Regulation of crystal protein biosynthesis by Bacillus thuringiensis: II. Effects of carbon and nitrogen sources.**  
İçgen Y., İçgen B., Özcengiz G.  
Research in microbiology, vol.153, pp.605-9, 2002 (SCI-Expanded)
38. **Regulation of crystal protein biosynthesis by Bacillus thuringiensis: I. Effects of mineral elements and pH.**  
İçgen Y., İçgen B., Özcengiz G.  
Research in microbiology, vol.153, pp.599-604, 2002 (SCI-Expanded)
39. **Characterization of Salmonella enteritidis isolates of chicken, egg and human origin from Turkey**  
İçgen B., Gurakan G. C., Özcengiz G.  
FOOD MICROBIOLOGY, vol.19, pp.375-382, 2002 (SCI-Expanded)
40. **Evaluation of symbiotic effectiveness of various Rhizobium cicer strains**  
İçgen B., Özcengiz G., Alaeddinoglu N.  
RESEARCH IN MICROBIOLOGY, vol.153, pp.369-372, 2002 (SCI-Expanded)
41. **Characterisation of local isolates of Enterobacteriaceae from Turkey**  
İçgen B., Gurakan G. C., Özcengiz G.  
MICROBIOLOGICAL RESEARCH, vol.157, pp.233-238, 2002 (SCI-Expanded)
42. **Effects of plasmid curing on antibiotic susceptibility, phage type, lipopolysaccharide and outer membrane protein profiles in local Salmonella isolates**  
İçgen B., Gurakan G. C., Özcengiz G.  
FOOD MICROBIOLOGY, vol.18, pp.631-635, 2001 (SCI-Expanded)
43. **Assignment of biological functions to specific plasmids in a local isolate of Rhizobium cicer**  
Yıldız E., Özcengiz G., İçgen B., Alaeddinoglu N.  
FOLIA MICROBIOLOGICA, vol.44, pp.55-58, 1999 (SCI-Expanded)

#### Articles Published in Other Journals

1. **Discharges of Wastewater Treatment Plants Needed Further Monitoring to Minimize Potential Risk of Entamoeba and Blastocystis for Public Health**  
ONURSAL A., İÇGEN B.  
Environment and Health, vol.2, no.11, pp.838-845, 2024 (Scopus)
2. **Use of lyophilized and acclimated digestate dominated by Methanobrevibacter as a start-up inoculum in anaerobic digester led to higher methane production in biochemical methane potential assays**  
Cam D., Sayin S., Sarman O. Z., İren E., İçgen B.  
Waste Management Bulletin, vol.2, no.3, pp.36-42, 2024 (Peer-Reviewed Journal)
3. **Colicinogeny, lipopolysaccharide and outer membrane protein profiles of multi-drug resistant Salmonella typhimurium isolates from turkey**  
Elpek G., İÇGEN B., ÖZCENGİZ G.  
Turkish Journal of Medical Sciences, vol.32, no.6, pp.483-486, 2002 (Scopus)

#### Refereed Congress / Symposium Publications in Proceedings

1. **Observation of primary parameters in two-stage anaerobic digesters under unsteady-state condition**  
Akçakaya M., Tuncay S., İçgen B.  
4th International Energy & Engineering Congress, Gaziantep, Turkey, 24 - 25 October 2019, pp.2-3

2. **Behavior of sulfate-reducing bacteria in single-stage anaerobic digesters pretreated with ozone**  
Tuncay S., Akcakaya M., İçgen B.  
4th International Energy & Engineering Congress, Gaziantep, Turkey, 24 - 25 October 2019, pp.1-2
3. **Impact of sequencing batch reactor type wastewater treatment plants on the removal of Giardia**  
Akçakaya M., İçgen B.  
International Congress of Agriculture, Environment and Health, Aydın, Turkey, 26 - 28 October 2018, no.1, pp.62
4. **Evaluation of the chloramphenicol resistance dissemination in untreated hospital wastewaters**  
Kayalı O., İçgen B.  
International Congress of Agriculture, Environment and Health, Aydın, Turkey, 26 - 28 October 2018, no.1, pp.50
5. **Methane production enhanced through ozone pretreatment in anaerobic digestion**  
Tuncay S., İçgen B.  
4th International Conference on Environmental Science and Technology (ICOEST), Kyiv, Ukraine, 19 - 23 September 2018, no.1, pp.32
6. **Aminoglycoside resistance genes treated by sequencing batch reactor type wastewater treatment plants**  
Tuncay S., Kucukunsal S., İçgen B.  
4th International Conference on Environmental Science and Technology (ICOEST), Kyiv, Ukraine, 19 - 23 September 2018, no.1, pp.43
7. **Removal of sulfonamide resistance genes in coagulation-flocculation with UV disinfection type wastewater treatment plant**  
Kucukunsal S., İçgen B.  
2nd International Conference on Innovations in Natural Science and Engineering, Kyiv, Ukraine, 7 - 10 September 2018, no.1, pp.64
8. **Analysis of Methanogenic Community Changes in Anaerobic Digesters with Ozone Pre-treatment**  
Tuncay S., Kucukunsal S., Kayalı O., İçgen B.  
2nd International Conference on Innovations in Natural Science and Engineering, Kyiv, Ukraine, 7 - 10 September 2018, no.1, pp.63
9. **Effect of volatile fatty acids on methane production in ozone pre-treated anaerobic digesters**  
Tuncay S., İçgen B.  
World Multidisciplinary Earth Sciences Symposium, Praha, Czech Republic, 3 - 07 September 2018, no.1, pp.33
10. **Function of conventional wastewater treatment plant on the removal of the aminoglycoside resistance gene**  
Kucukunsal S., İçgen B.  
World Multidisciplinary Earth Sciences Symposium, Praha, Czech Republic, 3 - 07 September 2018, no.1, pp.34
11. **Macrolide resistance disseminated via untreated hospital effluents**  
Kayalı O., İçgen B.  
World Multidisciplinary Earth Sciences Symposium, Praha, Czech Republic, 3 - 07 September 2018, no.1, pp.35
12. **Removal of Giardia through UV treatment in wastewater treatment plants**  
Akçakaya M., İçgen B.  
International Ecology Symposium, Kastamonu, Turkey, 19 - 23 June 2018, no.1, pp.42
13. **Removal of total and volatile solids in ozone pretreated anaerobic digesters**  
Tuncay S., İçgen B.  
International Ecology Symposium, Kastamonu, Turkey, 19 - 23 June 2018, pp.972
14. **Impact of UV treatment for the removal of bacterial genes during wastewater treatment**  
Bulut T., İçgen B.  
International Ecology Symposium, Kastamonu, Turkey, 19 - 23 June 2018, no.1, pp.77
15. **Impact of conventional wastewater treatment plants on dissemination of sulfonamide resistance genes**  
Kucukunsal S., İçgen B.  
International Ecology Symposium, Kastamonu, Turkey, 19 - 23 June 2018, pp.955
16. **Aminoglycoside resistance genes monitored in hospital wastewaters**



Kayalı O., İçgen B.

International Ecology Symposium, Kastamonu, Turkey, 19 - 23 June 2018, pp.981

17. **Biosurfactants enhanced kerosene degradation approved through microbial adhesion to hydrocarbon**  
Aydın D. C., İçgen B.  
International Ecology Symposium, Kastamonu, Turkey, 19 - 23 June 2018, no.1, pp.54
18. **Effect of UV treatment for the removal of sulfonamide resistance gene during wastewater treatment**  
Bulut T., İçgen B.  
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018
19. **Effects of hospital wastewaters on the dissemination of tetracycline resistance genes**  
Kayalı O., İçgen B.  
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018
20. **Impact of sequencing batch reactor wastewater treatment plants on the removal of sulfonamide resistance genes**  
Kucukunsal S., İçgen B.  
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018
21. **Catabolic genes dependent detection of aerobic BTEX degraders**  
YAVAS A., İÇGEN B.  
7th World Congress on Petrochemistry and Chemical Engineering, Atlanta, United States Of America, 13 - 14 November 2017
22. **Kerosene degraders justified with gas chromatographic and genetical analyses**  
AYDIN D. C., İÇGEN B.  
7th World Congress on Petrochemistry and Chemical Engineering, Atlanta, United States Of America, 13 - 14 November 2017
23. **Aerobik BTEX degradesyonu gaz kromatografisi kütle spektrometresi sistemi ile analizi**  
YAVAS A., İÇGEN B.  
12. Ulusal Çevre Mühendisliği Kongresi, Ankara, Turkey, 5 - 07 October 2017
24. **Sülfonamid direncinin çevresel yayılımına hastane atık sularının etkisi**  
KAYALI O., İÇGEN B.  
12. Ulusal Çevre Mühendisliği Kongresi, Ankara, Turkey, 5 - 07 October 2017
25. **Membran ve paket membran tipi atıksu arıtma tesislerinin antibiyotik direnç genlerinin çevresel yayılımına etkisi**  
KUCUKUNSAL S., İÇGEN B.  
12. Ulusal Çevre Mühendisliği Kongresi, Ankara, Turkey, 5 - 07 October 2017
26. **Etkin kerosen degradesyonu gösteren bakterilerde ramnolipit kodlayan genlerin analizi**  
AYDIN D. C., İÇGEN B.  
12. Ulusal Çevre Mühendisliği Kongresi, Ankara, Turkey, 5 - 07 October 2017
27. **Fate of antibiotic resistance genes in biological nutrient removal wastewater treatment plants**  
KUCUKUNSAL S., İÇGEN B.  
ICEEM09, Bolonya, Spain, 6 - 09 September 2017
28. **Microbial population shifts in ozone pre-treated single-stage anaerobic digesters**  
GUMUS A., İÇGEN B.  
ICEEM09, Bolonya, Spain, 6 - 09 September 2017
29. **Characterization of biosurfactants enhancing kerosene degradation**  
Aydın D. C., İÇGEN B.  
Proceedings of the 2nd World Congress on Civil, Structural, and Environmental Engineering, CSEE 2017, Barcelona, Spain, 2 - 04 April 2017
30. **Characterization of biosurfactants enhancing kerosene degradation**

AYDIN D. C., İÇGEN B.

Second International Conference on Air, Water, and Soil Pollution and Treatment (AWSPT'xx17), Barcelona, Spain, 02 April 2016 - 04 April 2017

31. **Microbial population dynamics in anaerobic digester due to ammonia loadings**  
Çiçek M., İÇGEN B.  
International Congress on Biotechnology and Bioengineering, Los-Angeles, United States Of America, 26 - 28 September 2016
32. **Biogas production in single stage anaerobic digestion of waste activated sludge pre treated with varying ozone doses**  
HAGHİRİ S., İÇGEN B.  
International Congress on Biotechnology and Bioengineering, Los-Angeles, United States Of America, 26 - 28 September 2016
33. **Biosurfactants from kerosene degraders for efficient bioremediation**  
AYDIN D. C., İÇGEN B.  
International Congress on Water, Waste and Energy Management, Roma, Italy, 18 - 20 July 2016
34. **Selection of BTEX degraders from petroleum hydrocarbon contaminated surface waters**  
YAVAS A., İÇGEN B.  
International Congress on Water, Waste and Energy Management, Roma, Italy, 18 - 20 July 2016
35. **Bacterial population dynamics in anaerobic digester efficient in biogas production monitored through fluorescein in situ hybridization**  
Çiçek M., HAGHİRİ S., İÇGEN B.  
EURASIA 2016 Waste Management Symposium, İstanbul, Turkey, 2 - 04 May 2016
36. **Biosurfactant producing and diesel oil degrading bacteria isolated from petroleum hydrocarbon contaminated river waters**  
YILMAZ F., İÇGEN B.  
EURASIA 2016 Waste Management Symposium, İstanbul, Turkey, 2 - 04 May 2016
37. **Resistance to vancomycin in surface water isolates monitored by vanA specific oligonucleotide probe**  
NAKİPOĞLU M., YILMAZ F., İÇGEN B.  
EURASIA 2016 Waste Management Symposium, İstanbul, Turkey, 2 - 04 May 2016
38. **Isolation of BTEX degrading indigenous bacteria from petroleum hydrocarbon contaminated surface waters**  
YAVAS A., İÇGEN B.  
EURASIA 2016 Waste Management Symposium, İstanbul, Turkey, 2 - 04 May 2016
39. **Acceleration of hydrolysis step in anaerobic digester after ozone pre treatments monitored at microbial level by using fluorescence in situ hybridization**  
HAGHİRİ S., Çiçek M., İÇGEN B.  
EURASIA 2016 Waste Management Symposium, İstanbul, Turkey, 2 - 04 May 2016
40. **Bacterial population dynamics in anaerobic digester efficient in biogas production monitored through fluorescein in situ hybridization**  
çiçek m., İÇGEN B.  
EURASIA 2016 Waste Management Symposium, 2 - 04 March 2016
41. **In situ monitoring of vancomycin resistance genes in surface waters by oligonucleotide probes**  
NAKİPOĞLU M., YILMAZ F., İÇGEN B.  
ICOEST 2015 International Conference on Environmental Science and Technology, Bosnia And Herzegovina, 9 - 13 September 2015
42. **Emulsification and diesel oil degradation ability of Acinetobacter haemolyticus Zn01 isolated from petroleum hydrocarbon contaminated river waters**  
ONUR G., YILMAZ F., İÇGEN B.  
Global Biotechnology Congress 2015, BOSTON, 22 - 25 July 2015
43. **Isolation of efficient diesel oil degraders harbouring alkB and C230 genes**

ONUR G., YILMAZ F., İÇGEN B.

ICOCEE Cappadocia 2015 International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 20 - 23 May 2015

44. **Biogas production by anaerobic digester exposed to ammonia changed with changing bacterial population dynamics**  
AK M. S., YILMAZ F., İÇGEN B.  
ICOCEE Cappadocia 2015 International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 20 - 23 May 2015
45. **Isolation of bacteria efficient in the removal of anionic detergents**  
SALIK S. B., YILMAZ F., ERGENE A., İÇGEN B.  
ICOCEE Cappadocia 2015 International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 20 - 23 May 2015
46. **Western blot analysis used to detect van encoded Dalanine D lactate ligase in surface water isolates**  
NAKİPOĞLU M., YILMAZ F., İÇGEN B.  
ICOCEE Cappadocia 2015 International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 20 - 23 May 2015
47. **Identification of a potential isolate for degradation of sodium dodecyl sulfate in wastewater systems**  
ULUSOY H., YILMAZ F., ERGENE A., İÇGEN B.  
ICOCEE Cappadocia 2015 International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 20 - 23 May 2015
48. **Methicillin resistant surface water isolates monitored by mecA specific DNA probes**  
SEYEDMONİR E., YILMAZ F., İÇGEN B.  
ICOCEE Cappadocia 2015 International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 20 - 23 May 2015
49. **Poential of Pseudomonas species for the treatment of heavily detergent polluted waters**  
LALE G., YILMAZ F., ERGENE A., İÇGEN B.  
ICOCEE Cappadocia 2015 International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 20 - 23 May 2015
50. **Vancomycin resistance genes reservoired and disseminated in surface waters**  
NAKİPOĞLU M., YILMAZ F., İÇGEN B.  
IC2AR 2015 First International Caparica Conference in Antibiotic Resistance, Caparica, Portugal, 26 - 28 January 2015
51. **Surface waters as hot spots for mecA harbouring staphylococcal and non staphylococcal isolates**  
SEYEDMONİR E., YILMAZ F., İÇGEN B.  
ICCBEE'14 International Conference on Chemistry, Biomedical and Environment Engineering, Antalya, Turkey, 7 - 08 October 2014
52. **An efficient option for the biological treatment of wastewater in detergent cosmetic and cleaning industries**  
SALİH BATUHAN S., GÖKSU L., HÜSEYİN U., SİMGE B., YILMAZ F., ERGENE A., İÇGEN B.  
ICIME 2014 International Conference in Integrated Management of Environment, Hammamet, Tunisia, 25 - 28 September 2014
53. **Metagenomic analysis of cadA gene as a powerful management tool for the remediation of cadmium-polluted sites**  
YILMAZ F., ERDEM U., İÇGEN B.  
ATHENS 2014 Sustainable Solid Waste Management Symposium, 12 June 2016 - 14 June 2014
54. **Prevalence of mecA in surface water contaminated with Staphylococcus**  
SEYEDOMİR E., YILMAZ F., İÇGEN B.  
EURASIA 2014 Waste Management Symposium, 28 - 30 April 2014
55. **Manganese biosorption from surface water by Serratia nematodiphila**  
SAHİN O., YILMAZ F., İÇGEN B.  
EURASIA 2014 Waste Management Symposium, 28 - 30 April 2014

56. **Synthetic type surfactant-degrading bacteria in the river environment identified by FAME and 16S rRNA sequencing**  
YILMAZ F., ERDEM U., İÇGEN B.  
EURASIA 2014 Waste Management Symposium, 28 - 30 April 2014
57. **The cytotoxic effect of endemic *Centaurea fenzlii* Reichardt on colon cancer cell lines**  
Yirtici U., Yilmaz F., Serim G., Kirimer N., Ulukaya E., Içgen B., Ergene A.  
International Congress on Natural Products Research on Global Change, Natural Products and Human Health/8th Joint Meeting of AFERP, ASP, GA, PSE and SIF, New-York, United States Of America, 28 July - 01 August 2012, vol.78, pp.1171-1172
58. **Türkiye’xxdeki tifi olmayan salmonellaların moleküler karakterizasyonu**  
ELPEK K., İÇGEN B., YILDIRMAK T., ÖZCENGİZ G.  
12. Biyoteknoloji Kongresi, Turkey, 17 - 21 August 2001

### Academic and Administrative Experience

2012 - Continues	<b>Academic Council Member of Department</b>	Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering
2024 - 2024	<b>Department Academic Incentive Evaluation Commission Chairperson</b>	Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering
2020 - 2024	<b>Chairperson of Department Strategic Planning Commission</b>	Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering
2018 - 2024	<b>Faculty Academic Council Member</b>	Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering
2018 - 2024	<b>Head of Department</b>	Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering
2023 - 2023	<b>Performance Evaluation Commission Chairperson</b>	Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering
2021 - 2021	<b>Department Academic Incentive Evaluation Commission Chairperson</b>	Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering
2020 - 2020	<b>Department Academic Incentive Evaluation Commission Chairperson</b>	Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering
2019 - 2019	<b>Department Academic Incentive Evaluation Commission Chairperson</b>	Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering

2018 - 2018	<b>Department Academic Incentive Evaluation Commission Member</b>	Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering
2016 - 2018	<b>Deputy Head of Department</b>	Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering
2016 - 2018	<b>Head of Department</b>	Middle East Technical University, Graduate School of Natural and Applied Sciences, Biochemistry
2015 - 2018	<b>Member of Programme Steering Committee</b>	Middle East Technical University, Graduate School of Natural and Applied Sciences, Biotechnology
2012 - 2018	<b>Member of Programme Steering Committee</b>	Middle East Technical University, Graduate School of Natural and Applied Sciences, Biochemistry
2017 - 2017	<b>Department Academic Incentive Evaluation Commission Member</b>	Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering
2013 - 2016	<b>Academic Council Member of Department</b>	Middle East Technical University, Graduate School of Natural and Applied Sciences, Earth System Science
2013 - 2016	<b>Internship Coordinator</b>	Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering

## Courses

Fundamentals of Biotechnology, Doctorate, 2022 - 2023

Environmental Microbiology, Undergraduate, 2019 - 2020, 2018 - 2019

Environmental Applications of Biomolecular Engineering, Postgraduate, 2020 - 2021, 2018 - 2019

Molecular Tools in Environmental Engineering, Undergraduate, 2019 - 2020

Environmental Biotechnology, Postgraduate, 2017 - 2018

## Advising Theses

İçgen B., Methanogenic activity of industrial biogas plants treating OFMSW determined over mcrA expression, Doctorate, A.ONURSAL(Student), Continues

İÇGEN B., Waterborne parasitic protozoa removal capacities of wastewater treatment plants with varying processes, Postgraduate, A.ONURSAL(Student), 2022

İÇGEN B., Effect of ozone pretreatment on methane production and microbial community structure of single-stage anaerobic digesters, Postgraduate, S.TUNCAY(Student), 2021

İÇGEN B., Effect of ozone pretreatment on biogas production and microbial community structure of two-stage anaerobic digesters, Postgraduate, M.AKÇAKAYA(Student), 2021

İçgen B., The impact of untreated hospital effluents on dissemination of antibiotic resistance genes, Postgraduate, O.Kayalı(Student), 2019

İçgen B., The impact of wastewater treatment plants on dissemination of antibiotic resistance genes , Postgraduate, S.Küçükünsal(Student), 2019

İÇGEN B., Impact of untreated hospital effluents on dissemination of antibiotic resistance genes, Postgraduate, O.Kayalı(Student), 2019

İÇGEN B., Impact of wastewater treatment plants on dissemination of antibiotic resistance genes, Postgraduate, S.Küçükünsal(Student), 2019

İçgen B., Indigenous hydrocarbon degraders further evaluated for their kerosene degradation and biosurfactant production potentials, Postgraduate, D.Camille(Student), 2018

PARLAKTUNA M., İÇGEN B., Investigation on indigenous bacteria for individual BTEX degradation potentials and relative pathways used, Postgraduate, A.Yavaş(Student), 2018

İçgen B., vanA harboring enterococcal and non-enterococcal surface water isolates monitored by an oligonucleotide DNA probe /, Postgraduate, M.Nakipoğlu(Student), 2016

İÇGEN B., Anyonik deterjan kirliliği olan sularda deterjan degrade eden bakterilerin değerlendirilmesi, Postgraduate, L.GÖKSU(Student), 2015

İÇGEN B., Screening of biosurfactant producing and diesel oil degrading bacteria from petroleum hydrocarbon contaminated surface waters, Postgraduate, G.Onur(Student), 2015

İÇGEN B., Deterjan kirliliği olan nehir sularında SDS degrade eden suşların belirlenmesi ve tanımlanması, Postgraduate, S.BATUHAN(Student), 2015

İÇGEN B., Deterjan ile kirlenmiş yüzey sularında yüksek degradasyon yeteneğine sahip izolatların araştırılması, Postgraduate, H.ULUSOY(Student), 2015

İçgen B., Monitoring methicillin-resistant bacteria in river water by using meca-specific DNA probe, Postgraduate, E.SEYEDMONİR(Student), 2014

İÇGEN B., FAME ve 16S rRNA sekans analizleri ile tanımlanmış edilebilir nikel, kobalt ve kalay dirençli yüzey suyu izolatlarının biyosorpsiyon yeteneklerinin değerlendirilmesi, Postgraduate, S.CERİT(Student), 2014

İÇGEN B., Demir, bakır ve krom direnç gösteren bakterilerin moleküler yöntemler kullanılarak tanımlanması ve biyosorpsiyon kapasitelerinin belirlenmesi, Postgraduate, İ.AKIN(Student), 2014

İÇGEN B., Alüminyum, baryum ve kurşun tolere eden yüzey suyu izolatlarının biyosorpsiyon potansiyellerinin belirlenmesi, Postgraduate, R.KOÇAK(Student), 2014

İÇGEN B., 16s rRNA problemleri kullanılarak etkin kadmiyum, civa ve antimon dirençli nehir izolatlarının takip edilmesi, Doctorate, F.YILMAZ(Student), 2013

İÇGEN B., Gümüşü tolere eden bakterilerin 16S rDNA sekanslaması ile tanımlanması, Postgraduate, S.KOÇ(Student), 2013

İÇGEN B., Stronsiyumu tolere eden bakterilerin 16S rDNA sekanslaması ile tanımlanması, Postgraduate, B.KABATAŞ(Student), 2013

İÇGEN B., Yağ asidi ve 16S rRNA sekans analizleri ile tanımlanan lityum, çinko ve mangan dirençli bakterilerin biyosorpsiyon yeteneklerinin belirlenmesi, Postgraduate, Ö.ŞAHİN(Student), 2013

İÇGEN B., Nikel ve kobaltı tolere eden bakterilerin izolasyonu ve karakterizasyonu, Postgraduate, C.KOÇHAN(Student), 2012

İÇGEN B., Alüminyum ve baryum dirençli çevre izolatlarının moleküler karakterizasyonu, Postgraduate, G.SERİM(Student), 2012

İÇGEN B., Kurşuna dirençli çevre izolatu olan *Enterococcus faecalis*'in biyokimyasal ve moleküler karakterizasyonu, Postgraduate, Y.AKTAN(Student), 2012

İÇGEN B., Endüstriyel atık sularından izole edilen çinko ve mangan dirençli bakterilerin tanımlanması ve moleküler karakterizasyonu, Postgraduate, S.AKBULUT(Student), 2012

İÇGEN B., Bakır ve kroma dirençli bakterilerin biyokimyasal ve moleküler karakterizasyonu, Postgraduate, G.TURALI(Student), 2012

İÇGEN B., Lityum ve kalay dirençliliği olan bakterilerin izolasyonu ve karakterizasyonu, Postgraduate, N.ORMAN(Student), 2012

İÇGEN B., Endemik *Centaurea fenzlii* Reichardt bitkisinin MCF-7 meme kanseri hücre dizileri üzerine sitotoksik, apoptotik, nekrotik etkisi, Doctorate, Ü.YIRTICI(Student), 2012

İÇGEN B., Kırıkkale-Kızılırmak'tan izole edilen gümüş ve stronsiyum dirençli bakterilerin biyokimyasal ve moleküler karakterizasyonu, Postgraduate, G.ÖZER(Student), 2011

## Activities in Scientific Journals

Environmental Science: Research and Reviews, Committee Member, 2019 - Continues

Water-Soil, Biological Environment and Energy, Committee Member, 2018 - Continues

Bacterial Genetics and Ecology, Committee Member, 2018 - Continues  
Journal of Enzyme Engineering, Committee Member, 2018 - Continues  
Advances in Immunology and Vaccines, Committee Member, 2018 - Continues  
Academic J. of Biochemistry and Molecular Biology, Committee Member, 2018 - Continues  
Toxicology and Health of Environment, Committee Member, 2018 - Continues  
Bacteriology and Microbiology, Committee Member, 2018 - Continues  
International J. of Water and Wastewater Treatment, Committee Member, 2017 - Continues  
Journal of Industrial Pollution Control, Committee Member, 2017 - Continues  
Austin Environmental Sciences, Committee Member, 2017 - Continues  
European Federation of Biotechnology, Evaluation Committee Member, 2017 - Continues  
SF Journal of Biotechnology and Biomedical Engineering, Committee Member, 2017 - Continues  
Clinical Biotechnology and Microbiology, Committee Member, 2017 - Continues  
American J. of Cur. & App. Research in Microbiology, Committee Member, 2017 - Continues  
Journal of Water, Committee Member, 2018 - 2018  
United Journal of Biochemistry and Biotechnology, Committee Member, 2018 - 2018

## Memberships / Tasks in Scientific Organizations

Environmental Biotechnology, Member, 2017 - 2020, Belgium

## Scientific Refereeing

United Nations Development Program - UNDP Supported Project, TEYDEB-GCIP, Turkey, December 2024  
EU Supported Other Project, Eureka, Denmark, November 2024  
EU Supported Other Project, Eureka, Denmark, November 2024  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, TEYDEB, Turkey, November 2024  
EU Supported Other Project, Innovation Fund of Denmark, Denmark, September 2024  
EU Supported Other Project, Eurostars 3 - Call 7, Sweden, September 2024  
EU Supported Other Project, Universiti Malaya, Malaysia, August 2024  
EU Supported Other Project, Rajamangala University of Technology, Lanna Nan, Thailand, August 2024  
EU Supported Other Project, Prince of Songkla University, Thailand, August 2024  
EU Supported Other Project, Institut Teknologi Bandung, Indonesia, August 2024  
EU Supported Other Project, Eberhard-Karls-Universitaet Tubingen, Germany, August 2024  
EU Supported Other Project, BRIN, Indonesia, August 2024  
TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, TEYDEB, Turkey, May 2024  
EU Supported Other Project, ESTARS3 , Belgium, March 2024  
EU Supported Other Project, ESTARS3 , Belgium, March 2024  
TUBITAK Project, 1002 - Quick Support Program, KBAG, Turkey, March 2024  
TUBITAK Project, 1011 - International Scientific Research Projects Participation Program (UBAP), ARDEB, Turkey, November 2023  
TUBITAK Project, 1011 - International Scientific Research Projects Participation Program (UBAP), ARDEB, Turkey, November 2023  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ÇAYDAG, Turkey, November 2023  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, November 2023  
Project Supported by Higher Education Institutions, BAP Research Project, Karadeniz Technical University, Turkey, November 2023  
TUBITAK Project, 1011 - International Scientific Research Projects Participation Program (UBAP), ARDEB, Turkey,

November 2023

TUBITAK Project, 1011 - International Scientific Research Projects Participation Program (UBAP), Middle East Technical University, Turkey, November 2023

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, BİDEB, Turkey, November 2023

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, BİDEB, Turkey, November 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, November 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, November 2023

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, TEYDEB, Turkey, October 2023

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, TEYDEB, Turkey, October 2023

TUBITAK Project, 1002 - Quick Support Program, ARDEB, Turkey, October 2023

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, TEYDEB, Turkey, October 2023

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, TEYDEB, Turkey, October 2023

TUBITAK Project, 1002 - Quick Support Program, ÇAYDAG, Turkey, October 2023

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, BİDEB, Turkey, July 2023

TUBITAK Project, 2239 - Entrepreneurship and Innovation. and Res. Activities Dest. Prog., TEYDEB, Turkey, July 2023

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, BİDEB, Turkey, July 2023

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, BİDEB, Turkey, July 2023

TUBITAK Project, 2239 - Entrepreneurship and Innovation. and Res. Activities Dest. Prog., TEYDEB, Turkey, July 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, May 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, May 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, May 2023

TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , BİDEB, Turkey, April 2023

TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , BİDEB, Turkey, April 2023

TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , BİDEB, Turkey, April 2023

TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , BİDEB, Turkey, April 2023

National Research Fund Supported Project, National Academy of Sciences of Ukraine, NASU, Innovation Fund Denmark, Denmark, April 2023

National Research Fund Supported Project, National Academy of Sciences of Ukraine, NASU, Innovation Fund Denmark, Denmark, April 2023

TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , BİDEB, Turkey, April 2023

TUBITAK Project, 1002 - Quick Support Program, KBAG, Turkey, April 2023

Project Supported by Higher Education Institutions, BAP Research Project, Istanbul Technical University, Turkey, October 2022

EU Supported Other Project, Eurostars, Belgium, October 2022

Project Supported by Higher Education Institutions, BAP Research Project, Ege University, Turkey, September 2022

TUBITAK Project, 1002 - Quick Support Program, ARDEB, Turkey, July 2022

CHEMOSPHERE, SCI Journal, June 2022

TUBITAK Project, 3501 - National Young Researcher Career Development Program, ARDEB, Turkey, June 2022

ENVIRONMENTAL RESEARCH, SCI Journal, May 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, BİDEB, Turkey, May 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, May 2022

Technopark, Middle East Technical University, Turkey, May 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, BİDEB, Turkey, May 2022

Technopark, Middle East Technical University, Turkey, May 2022

CHEMOSPHERE, SCI Journal, April 2022



ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, SCI Journal, April 2022

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Mikromiks Biyoteknoloji Araştırma ve Geliştirme Sanayi ve Ticaret Anonim Şirketi , Turkey, April 2022

EU Supported Other Project, Eurostars , Germany, April 2022

Project Supported by Higher Education Institutions, BAP Research Project, Karadeniz Technical University, Turkey, March 2022

Project Supported by Higher Education Institutions, BAP Research Project, Karadeniz Technical University, Turkey, March 2022

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Journal, February 2022

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Turkey, February 2022

TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , BİDEB, Turkey, December 2021

TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , BİDEB, Turkey, December 2021

TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , BİDEB, Turkey, December 2021

Project Supported by Higher Education Institutions, BAP Research Project, Bursa Uludağ University, Turkey, December 2021

TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , BİDEB, Turkey, December 2021

TUBITAK Project, 1002 - Quick Support Program, ARDEB, Turkey, November 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, November 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, November 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, November 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, November 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, October 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, October 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, October 2021

TUBITAK Project, 1002 - Quick Support Program, ARDEB, Turkey, September 2021

Project Supported by Higher Education Institutions, BAP Research Project, Tekirdağ Namik Kemal University, Turkey, September 2021

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, BİDEB, Turkey, August 2021

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, Ihsan Dogramaci Bilkent University, Turkey, August 2021

TUBITAK Project, 1002 - Quick Support Program, Canakkale Onsekiz Mart University, Turkey, August 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Kazlı Çeşme Deri Ürünleri Ar-Ge San. ve Tic. Şti., Turkey, August 2021

Project Supported by Higher Education Institutions, BAP Research Project, Hitit University, Turkey, August 2021

TUBITAK Project, 3501 - National Young Researcher Career Development Program, ARDEB, Turkey, July 2021

TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, TOVAG, Turkey, July 2021

TÜBİTAK International Bilateral Joint Cooperation Program Project, With the National Natural Science Foundation of China (NFSC) Joint Cooperation Program, Acibadem Mehmet Ali Aydınlar University, Turkey, July 2021

TUBITAK Project, 1002 - Quick Support Program, ARDEB, Turkey, May 2021

TÜBİTAK International Multi-Cooperation Project, ERA.NET Project, CORNET, Turkey, May 2021

ENVIRONMENTAL RESEARCH, SCI Journal, April 2021

Strategies and tools for pollutant mitigation Volume 2, Scientific / Professional Book Published by Renowned Publishing Houses, April 2021

Strategies and tools for pollutant mitigation, Scientific / Professional Book Published by Renowned Publishing Houses,

April 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Kazlı Çeşme Deri Ürünleri AR-GE San. ve Tic. Ltd. Şti., Turkey, April 2021

SCIENCE OF THE TOTAL ENVIRONMENT, SCI Journal, February 2021

ENVIRONMENTAL RESEARCH, SCI Journal, February 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, February 2021

Project Supported by Higher Education Institutions, BAP Research Project, Bursa Uludağ University, Turkey, January 2021

TUBITAK Project, 1002 - Quick Support Program, ARDEB, Turkey, January 2021

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, Giresun University, Turkey, December 2020

TÜBİTAK International Bilateral Joint Cooperation Program Project, Russian Foundation for Basic Research, RFBR Bilateral Cooperation Program, Mugla Sıtkı Kocman University, Turkey, December 2020

TUBITAK Project, 1002 - Quick Support Program, Akdeniz University, Turkey, December 2020

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, Gebze Technical University, Turkey, December 2020

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, Karadeniz Technical University, Turkey, December 2020

H2020 Project, RIA Research and Innovation Actions Project, TÜBİTAK, Turkey, December 2020

JOURNAL OF HAZARDOUS MATERIALS, SCI Journal, October 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Kazlı Çeşme Deri Ürünleri AR-GE San. ve Tic. Ltd. Şti., Turkey, October 2020

Project Supported by Higher Education Institutions, BAP Research Project, Ege University, Turkey, October 2020

Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey, August 2020

TUBITAK Project, 1002 - Quick Support Program, ARDEB, Turkey, July 2020

WATER RESEARCH, SCI Journal, June 2020

TUBITAK Project, 1002 - Quick Support Program, ARDEB, Turkey, June 2020

TUBITAK Project, 1002 - Quick Support Program, Turkey, June 2020

Recent Research Trends for Cleaner Environment Achieved by Sustainable and Innovative Solutions , Scientific / Professional Book Published by Renowned Publishing Houses, May 2020

Environmental Research, SCI Journal, May 2020

JOURNAL OF APPLIED MICROBIOLOGY, SCI Journal, May 2020

JOURNAL OF HAZARDOUS MATERIALS, SCI Journal, May 2020

TUBITAK Project, 1002 - Quick Support Program, ARDEB, Turkey, May 2020

TUBITAK Project, 1002 - Quick Support Program, ARDEB, Turkey, May 2020

Journal Of Environmental Management, SCI Journal, April 2020

JOURNAL OF HAZARDOUS MATERIALS, SCI Journal, April 2020

TUBITAK Project, 3501 - National Young Researcher Career Development Program, ARDEB, Turkey, April 2020

H2020 Project, FET, H2020 Future & Emerging Technologies Project, TUBITAK, Turkey, April 2020

Project Supported by Higher Education Institutions, BAP Research Project, Erciyes University, Turkey, April 2020

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, TEYDEB, Turkey, April 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TEYDEB, Turkey, February 2020

Project Supported by Higher Education Institutions, BAP Research Project, Ege University, Turkey, February 2020

JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, SCI Journal, December 2019

TUBITAK Project, 2237 - Program for Supporting Project Training Activities, TUBITAK, Turkey, November 2019

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Kazlı Çeşme Deri Ürünleri AR-GE San. ve Tic. Ltd. Şti., Turkey, October 2019

TUBITAK Project, 1002 - Quick Support Program, Orta Doğu Teknik Üniversitesi, Turkey, June 2019

Project Supported by Higher Education Institutions, BAP Research Project, Orta Doğu Teknik Üniversitesi, Turkey, May 2019

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, TUBITAK, Turkey, April 2019  
Journal of Hazardous Materials , SCI Journal, February 2019  
Chemistry and Ecology, SCI Journal, February 2019  
International Journal of Environmental Health Research, SCI Journal, February 2019  
TUBITAK Project, 1002 - Quick Support Program, ARDEB, Turkey, January 2019  
Artificial Cells Nanomedicine and Biotechnology, SCI Journal, November 2018  
TUBITAK Project, 1002 - Quick Support Program, ARDEB, Turkey, November 2018  
TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, TEYDEB, Turkey, October 2018  
TUBITAK Project, 3001 - Initial R&D Projects Support Program, ARDEB, Turkey, July 2018  
Project Supported by Higher Education Institutions, BAP Research Project, Istanbul Technical University, Turkey, June 2018  
Project Supported by Higher Education Institutions, BAP Research Project, Hitit University, Turkey, June 2018  
Treatment of Industrial Effluents: Case Studies, Scientific / Professional Book Published by Renowned Publishing Houses, May 2018  
Ecotoxicology and Environmental Safety, SCI Journal, May 2018  
Soil and Sediment Contamination an International Journal , SCI Journal, May 2018  
Bioremediation Technology: Hazardous Waste Management, Scientific / Professional Book Published by Renowned Publishing Houses, April 2018  
Ecotoxicology and Environmental Safety, SCI Journal, April 2018  
TUBITAK Project, 3501 - National Young Researcher Career Development Program, ARDEB, Turkey, April 2018  
TUBITAK Project, 3501 - National Young Researcher Career Development Program, ARDEB, Turkey, April 2018  
TUBITAK Project, 3501 - National Young Researcher Career Development Program, ARDEB, Turkey, April 2018  
TUBITAK Project, 3501 - National Young Researcher Career Development Program, ARDEB, Turkey, April 2018  
TUBITAK Project, 3501 - National Young Researcher Career Development Program, ARDEB, Turkey, April 2018  
Journal of Hazardous Materials , SCI Journal, March 2018  
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, ARDEB, Turkey, March 2018  
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, ARDEB, Turkey, March 2018  
EU Supported Other Project, EUROSTARS, Belgium, March 2018  
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, ARDEB, Turkey, March 2018  
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, ARDEB, Turkey, March 2018  
International Journal of Water and Wastewater Treatment, Other Indexed Journal, February 2018  
International Journal of Water and Wastewater Treatment, Other Indexed Journal, February 2018  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, ARDEB, Turkey, January 2018  
Project Supported by Higher Education Institutions, January 2018  
Project Supported by Higher Education Institutions, January 2018

## Scientific Consultations

Samsun Avdan Enerji Üretim ve Ticaret A.Ş., Project Consultancy, Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, Turkey, 2023 - 2024  
Samsun Avdan Enerji Üretim ve Ticaret AS, Project Consultancy, Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, Turkey, 2022 - 2022  
Samsun Avdan Enerji Üretim ve Ticaret AS, Project Consultancy, Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, Turkey, 2020 - 2020  
TÜBİTAK Araştırma ve Yayın Etiği Kurulu, Scientific Consultancy, Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, Turkey, 2018 - 2018

## Tasks In Event Organizations

İçgen B., 11th World Bioenergy Congress and Expo, Scientific Congress, Berlin, Germany, Temmuz 2018  
İçgen B., 7th World Congress on Petrochemistry and Chemical Engineering , Scientific Congress, Georgia, United States Of America, Ekim 2017  
İçgen B., EUREKA EUROAGRI+ Working Group Meeting , Social Activities, İstanbul, Turkey, Temmuz 2007

## Metrics

Publication: 104  
Citation (WoS): 466  
Citation (Scopus): 522  
H-Index (WoS): 13  
H-Index (Scopus): 14

## Congress and Symposium Activities

The World Multidisciplinary Earth Science Symposium-WMESS 2018, Attendee, Praha, Czech Republic, 2018  
7th World congress on Petrochemistry and Chemical Engineering, Attendee, Georgia, United States Of America, 2017  
9th International Conference on Environmental Engineering and Management (ICEEM09), Attendee, Bologna, Italy, 2017  
2nd International Conference on Air, Water, and Soil Pollution and Treatment (AWSPT'17), Attendee, Barcelona, Spain, 2017  
International Congress on Biotechnology and Bioengineering, Attendee, California, United States Of America, 2016  
International Congress on Water, Waste and Energy Management, Attendee, Rome, Italy, 2016  
Global Biotechnology Congress 2015, Attendee, Massachusetts, United States Of America, 2015  
ICOCEE Cappadocia 2015 International Conference on Civil and Environmental Engineering, Attendee, Nevşehir, Turkey, 2015  
ICIME 2014 International Conference in Integrated Management of Environment, Attendee, Hammamet, Tunisia, 2014  
Athens 2014 Sustainable Solid Waste Management Symposium, Attendee, Athens, Greece, 2014  
EURASIA 2014 Waste Management Symposium, Attendee, İstanbul, Turkey, 2014  
International Conference on Water Is Necessary for Life, Attendee, Tinos, Greece, 2013  
International Conference on Environmental Science and Technology, Attendee, Nevşehir, Turkey, 2013  
15th European Congress on Biotechnology, Attendee, İstanbul, Turkey, 2012  
Planta Medica, International Congress on Natural Product Research, Attendee, New-York, United States Of America, 2012  
South African Society of Microbiology, South African Genetic Society, Attendee, Cape-Town, South Africa, 2004  
Cape Biotech, Attendee, Cape-Town, South Africa, 2003

## Research Areas

Environmental Engineering, Environmental Sciences, Environmental Microbiology, Biotechnology, Environmental Biotechnology, Industrial Biotechnology, Microbial Biotechnology, Environmental Pollution

## Non Academic Experience

Other Public Institution, Tübitak, Biyoteg  
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