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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Çevre Biyoteknolojisi , Turkey 2012 - 2018

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Çevre Biyoteknolojisi , Turkey 2010 - 2012

Undergraduate, Istanbul University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, Turkey 2005 - 2009

Dissertations

Doctorate, Energetic Utilization of Lignocellulose-Rich Agricultural Wastes by Enriched Microorganisms from High Performance Natural and Engineered Systems, Istanbul Technical University, Fen Bilimleri Fakültesi, Çevre Mühendisliği Bölümü, 2018

Postgraduate, Determination of the synergistic acute effects of antibiotics on methanogenic pathway, Istanbul Technical University, Fen Bilimleri Fakültesi, Çevre Mühendisliği Bölümü, 2012

Research Areas

Environmental Engineering, Life Sciences, Biotechnology, Environmental Biotechnology, Microbial Biotechnology, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Istanbul University, Faculty of Aquatic Sciences, Department of Marine and Freshwater Resources Management, 2019 - Continues

Research Assistant, Istanbul Technical University, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, 2013 - 2018

Academic and Administrative Experience

Erasmus Coordinator, Istanbul University, Faculty Of Aquatic Sciences, Department of Marine and Freshwater Resources Management, 2021 - Continues

Courses

- INNOVATIVE WATER RESOURCE MANAGEMENT WITHIN BIOECONOMY APPROACH, Undergraduate, 2020 - 2021
ENVIRONMENTAL FATE AND TOXICOLOGY OF POLLUTANTS, Undergraduate, 2019 - 2020
Introduction to Freshwater Science, Undergraduate, 2020 - 2021
DIAGNOSIS & MANAGEMENT OF ENVIRONMENTAL PROBLEMS IN AQUATIC ECOSYSTEMS, Postgraduate, 2020 - 2021
Water Chemistry, Undergraduate, 2019 - 2020
Next Generation Genetic Tools in Aquatic Sciences, Undergraduate, 2020 - 2021

Advising Theses

Özbayram E. G., İnce B., Enhanced anaerobic mono-digestion and co-digestion of crop residues by NaOH alkali pre-treatment, Postgraduate, M.MANSOUR(Student), 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Seasonal dynamics of bacterial communities in a highly polluted coastal lagoon: Dominance of sulfur bacteria in response to elevated H₂S levels
Özbayram E. G., Köker Demo L., Oğuz A., Zengin Z., Akçaalan R., Albay M.
Marine Pollution Bulletin, vol.209, 2024 (SCI-Expanded)
- II. Hydrodynamic disintegration effects assessment by CFD modelling integrated with bench tests
Dzido A., Walczak J., Jankowska H., Krawczyk P., ÖZBAYRAM E. G., Żubrowska-Sudoł M.
Journal of Environmental Management, vol.367, 2024 (SCI-Expanded)
- III. Three-domain microbial communities in the gut of *Pachnodula marginata* larvae: A comparative study revealing opposing trends in gut compartments
ÖZBAYRAM E. G., Kleinstreuber S., Sträuber H., Schroeder B. G., da Rocha U. N., Corrêa F. B., Harms H., Nikolausz M.
Environmental Microbiology Reports, vol.16, no.4, 2024 (SCI-Expanded)
- IV. Environmental DNA metabarcoding reveals diverse phytoplankton assemblages and potentially harmful algal distribution along the urban coasts of Türkiye
Kaleli A., Özbayram E. G., Akçaalan R.
Marine Environmental Research, vol.199, 2024 (SCI-Expanded)
- V. Biodiesel Production from *< i>Botryococcus sudeticus</i>* and *< i>Chlorella vulgaris</i>*: Assessment of Nitrogen Deficiency on Lipid, FAME Yield and Biodiesel Properties
Oğuz A., Köker Demo L., Özbayram E. G., Akçaalan R., Albay M.
WASTE AND BIOMASS VALORIZATION, vol.15, no.5, pp.2757-2768, 2024 (SCI-Expanded)
- VI. Enhanced Anaerobic Mono-digestion and Co-digestion of Crop Residues by NaOH Alkali Pre-treatment: Digestion Performance and Microbial Community Dynamics
Mansour M., İnce O., Uzun O., ÖZBAYRAM E. G., Miraloglu H. I., İnce B.
Waste and Biomass Valorization, vol.15, no.5, pp.3003-3015, 2024 (SCI-Expanded)
- VII. Bioaugmentation of anaerobic digesters with the enriched lignin-degrading microbial consortia through a metagenomic approach
Ozsefil I. C., Miraloglu I. H., ÖZBAYRAM E. G., İnce B., İnce O.
Chemosphere, vol.355, 2024 (SCI-Expanded)
- VIII. Comparative Investigation of Marine Benthic Diatom Assemblages with Morphological and Metabarcoding Approaches Along the Coasts of Istanbul Metropolis
Kaleli A., Özbayram E. G., Akçaalan R.
Estuaries and Coasts, vol.47, no.2, pp.473-484, 2024 (SCI-Expanded)
- IX. Performance evaluation and microbial dynamics of submerged anaerobic membrane bioreactors for municipal wastewater treatment
YILMAZ F., ÖZBAYRAM E. G., PERENDECİ N. A., Sahinkaya E., İnce O.
Journal of Water Process Engineering, vol.59, 2024 (SCI-Expanded)

- X. **Investigating Taste and Odour Characteristics in a Drinking Water Source: A Comprehensive 3-Year Monitoring Study**
 Zengin Z., Köker L., Özbayram E. G., Albay M., Akçaalan Albay R.
Environmental Management, 2024 (SCI-Expanded)
- XI. **Is a floodplain forest a valuable source for lignin-degrading anaerobic microbial communities: A metagenomic approach**
 Ozsefil I. C., Miraloglu I. H., ÖZBAYRAM E. G., Uzun O., Ince B., İnce O.
Chemosphere, vol.339, 2023 (SCI-Expanded)
- XII. **Does environmental DNA reflect the actual phytoplankton diversity in the aquatic environment? Case study of marine mucilage in the Sea of Marmara**
 Akçaalan R., Özbayram E. G., Kaleli A., Cam A. O., Köker Demo L., Albay M.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.28, pp.72821-72831, 2023 (SCI-Expanded)
- XIII. **Temporal and Spatial Variations of the Bacterial Diversity in a Deep Alkaline Lake**
 ÖZBAYRAM E. G., KÖKER DEMO L., Çam A. O., AKÇAALAN ALBAY R., ALBAY M.
WATER, vol.14, no.24, 2022 (SCI-Expanded)
- XIV. **Insights into the bacterial community structure of marine mucilage by metabarcoding**
 ÖZBAYRAM E. G., AKÇAALAN ALBAY R., İŞİNİBİLİR OKYAR M., ALBAY M.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.29, no.35, pp.53249-53258, 2022 (SCI-Expanded)
- XV. **Waste to energy: valorization of spent tea waste by anaerobic digestion**
 ÖZBAYRAM E. G.
ENVIRONMENTAL TECHNOLOGY, vol.42, no.22, pp.3554-3560, 2021 (SCI-Expanded)
- XVI. **Monitoring of cyanobacterial blooms and assessing polymer-enhanced microfiltration and ultrafiltration for microcystin removal in an Italian drinking water treatment plant***
 Akyol C., Ozbayram E. G., Accoroni S., Radini S., Eusebi A. L., Gorbi S., Vignaroli C., Bacchicocchi S., Campacci D., Gigli F., et al.
ENVIRONMENTAL POLLUTION, vol.286, 2021 (SCI-Expanded)
- XVII. **Combined sewer overflows: A critical review on best practice and innovative solutions to mitigate impacts on environment and human health**
 Botturi A., ÖZBAYRAM E. G., Tondera K., Gilbert N., Rouault P., Caradot N., Gutierrez O., Daneshgar S., Frison N., Akyol C., et al.
CRITICAL REVIEWS IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.51, no.15, pp.1585-1618, 2021 (SCI-Expanded)
- XVIII. **Contrasting the Water Quality and Bacterial Community Patterns in Shallow and Deep Lakes: Manyas vs. Iznik**
 Özbayram E. G., Koker L., Akcaalan R., Aydin F., Ertürk A., İnce O., Albay M.
ENVIRONMENTAL MANAGEMENT, vol.67, no.3, pp.506-512, 2021 (SCI-Expanded)
- XIX. **Recent Trends in Water and Health Studies on the Focus of Global Changes**
 Albay M., Ozbayram E. G., Camur D., TOPBAŞ M.
ENVIRONMENTAL MANAGEMENT, vol.67, no.3, pp.437-438, 2021 (SCI-Expanded)
- XX. **Policy and legislative barriers to close water-related loops in innovative small water and wastewater systems in Europe: A critical analysis**
 Cipolletta G., Ozbayram E. G., Eusebi A. L., Akyol C., Malamis S., Mino E., Fatone F.
JOURNAL OF CLEANER PRODUCTION, vol.288, 2021 (SCI-Expanded)
- XXI. **Bacterial Succession in the Thermophilic Phase of Composting of Anaerobic Digestates**
 İnce O., Ozbayram E. G., Akyol C., Erdem E. I., Gunel G., Ince B.
WASTE AND BIOMASS VALORIZATION, vol.11, no.3, pp.841-849, 2020 (SCI-Expanded)
- XXII. **Biotechnological utilization of animal gut microbiota for valorization of lignocellulosic biomass**
 Ozbayram E. G., Kleinstreuber S., Nikolausz M.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol.104, no.2, pp.489-508, 2020 (SCI-Expanded)
- XXIII. **Enhancing methane production from anaerobic co-digestion of cow manure and barley: Link between process parameters and microbial community dynamics**

- İnce O., Akyol C., Ozbayram E. G., Tatal B., Ince B.
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.39, no.1, 2020 (SCI-Expanded)
- XXIV. **Biological pretreatment with *Trametes versicolor* to enhance methane production from lignocellulosic biomass: A metagenomic approach**
Akyol C., İnce O., Bozan M., Ozbayram E. G., Ince B.
INDUSTRIAL CROPS AND PRODUCTS, vol.140, 2019 (SCI-Expanded)
- XXV. **Validated innovative approaches for energy-efficient resource recovery and re-use from municipal wastewater: From anaerobic treatment systems to a biorefinery concept**
Akyol C., FOGLIA A., Ozbayram E. G., FRISON N., KATSOU E., EUSEBI A. L., FATONE F.
CRITICAL REVIEWS IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 2019 (SCI-Expanded)
- XXVI. **Linking nano-ZnO contamination to microbial community profiling in sanitary landfill simulations**
Akyol C., Ozbayram E. G., Demirel B., Onay T. T., İnce O., Ince B.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.26, no.13, pp.13580-13591, 2019 (SCI-Expanded)
- XXVII. **Fungal bioaugmentation of anaerobic digesters fed with lignocellulosic biomass: What to expect from anaerobic fungus *Orpinomyces* sp.**
Akyol C., İnce O., Bozan M., Ozbayram E. G., Ince B.
BIORESOURCE TECHNOLOGY, vol.277, pp.1-10, 2019 (SCI-Expanded)
- XXVIII. **Bioaugmentation of anaerobic digesters treating lignocellulosic feedstock by enriched microbial consortia**
Ozbayram E. G., KLEINSTEUBER S., NIKOLAUSZ M., Ince B., İnce O.
ENGINEERING IN LIFE SCIENCES, vol.18, no.7, pp.440-446, 2018 (SCI-Expanded)
- XXIX. **Comparison of Rumen and Manure Microbiomes and Implications for the Inoculation of Anaerobic Digesters**
Ozbayram E. G., İnce O., Ince B., HARMS H., KLEINSTEUBER S.
MICROORGANISMS, vol.6, no.1, 2018 (SCI-Expanded)
- XXX. **Rumen bacteria at work: bioaugmentation strategies to enhance biogas production from cow manure**
Ozbayram E. G., Akyol C., Ince B., KARAKOC C., Ince O.
JOURNAL OF APPLIED MICROBIOLOGY, vol.124, no.2, pp.491-502, 2018 (SCI-Expanded)
- XXXI. **Enrichment of lignocellulose-degrading microbial communities from natural and engineered methanogenic environments**
Ozbayram E. G., KLEINSTEUBER S., NIKOLAUSZ M., Ince B., İnce O.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol.102, no.2, pp.1035-1043, 2018 (SCI-Expanded)
- XXXII. **Effect of bioaugmentation by cellulolytic bacteria enriched from sheep rumen on methane production from wheat straw**
Ozbayram E. G., KLEINSTEUBER S., NIKOLAUSZ M., Ince B., İnce O.
ANAEROBE, vol.46, pp.122-130, 2017 (SCI-Expanded)
- XXXIII. **Composting practice for sustainable waste management: a case study in Istanbul**
İnce O., Ozbayram E. G., Akyol C., INCE O., Ince B.
DESALINATION AND WATER TREATMENT, vol.57, no.31, pp.14473-14477, 2016 (SCI-Expanded)
- XXXIV. **Anaerobic co-digestion of cow manure and barley: Effect of cow manure to barley ratio on methane production and digestion stability**
Akyol C., Ozbayram E. G., İnce O., KLEINSTEUBER S., Ince B.
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.35, no.2, pp.589-595, 2016 (SCI-Expanded)
- XXXV. **Use of PCR-DGGE based molecular methods to assessment of microbial diversity during anaerobic treatment of antibiotic combinations**
Aydin S., Shahi A., Ozbayram E. G., Ince B., İnce O.
BIORESOURCE TECHNOLOGY, vol.192, pp.735-740, 2015 (SCI-Expanded)
- XXXVI. **Combined effect of erythromycin, tetracycline and sulfamethoxazole on performance of anaerobic sequencing batch reactors**
Aydin S., Ince B., Cetecioglu Z., Arikan O., Ozbayram E. G., Shahi A., İnce O.

- BIORESOURCE TECHNOLOGY, vol.186, pp.207-214, 2015 (SCI-Expanded)
- XXXVII. **Acute effects of various antibiotic combinations on acetoclastic methanogenic activity**
Ozbayram E. G., Arikan O., Ince B., Cetecioglu Z., Aydin S., İnce O.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.22, no.8, pp.6230-6235, 2015 (SCI-Expanded)
- XXXVIII. **Inhibitory effects of antibiotic combinations on syntrophic bacteria, homoacetogens and methanogens**
Aydin S., Cetecioglu Z., Arikan O., Ince B., Ozbayram E. G., İnce O.
CHEMOSPHERE, vol.120, pp.515-520, 2015 (SCI-Expanded)
- XXXIX. **Performance of anaerobic sequencing batch reactor in the treatment of pharmaceutical wastewater containing erythromycin and sulfamethoxazole mixture.**
Aydin Ş. B., Ince B., Cetecioglu Z., Ozbayram E. G., Shahi A., Okay O., Arikan O. A., İnce O.
Water science and technology : a journal of the International Association on Water Pollution Research, vol.70, no.10, pp.1625-32, 2014 (SCI-Expanded)
- XL. **Bioenergy production from diluted poultry manure and microbial consortium inside Anaerobic Sludge Bed Reactor at sub-mesophilic conditions**
Jaxybayeva A., Yangin-Gomec C., Cetecioglu Z., Ozbayram E. G., Yilmaz F., İnce O.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART B-PESTICIDES FOOD CONTAMINANTS AND AGRICULTURAL WASTES, vol.49, no.10, pp.775-785, 2014 (SCI-Expanded)
- XLI. **New approach to encapsulation of Trametes versicolor in calcium alginate beads: a promising biological pretreatment method for enhanced anaerobic digestion**
Uzun O., Ince O., Ozbayram E. G., Akyol C., Ince B.
BIOMASS CONVERSION AND BIOREFINERY, pp.1, 1 (SCI-Expanded)

Articles Published in Other Journals

- I. **Cyanocidal Effect of H₂O₂ on the Bloom-Forming *Microcystis aeruginosa*and *Sphaerospermopsis aphanizomenoides***
Köker Demo L., Özbayram E. G., Oğuz Çam A., Akçaaalan R., Albay M.
Aquatic Science and Engineering, vol.38, no.3, pp.200-204, 2023 (ESCI)
- II. **The Effects of Climate Change on Aquatic Ecosystems in Relation to Human Health**
Özbayram E. G., Çamur D., Köker Demo L., Oğuz Çam A., Akçaaalan Albay R., Albay M.
Aquatic Science and Engineering, vol.37, no.3, pp.123-128, 2022 (Scopus)
- III. **Assessment of microbial community diversity in lakes of İğneada floodplain forest by metabarcoding approach**
Özbayram E. G., Miraloğlu İ. H., İnce B.
Aquatic Research, vol.4, no.4, pp.4-312, 2021 (Peer-Reviewed Journal)
- IV. **Comparative Assessment of Biogas Production Potential of the Most Abundant Agro-residues in Turkey**
Özbayram E. G., İnce O.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.23, no.68, pp.547-555, 2021 (Peer-Reviewed Journal)
- V. **Bacterial Community Composition of Sapanca Lake During a Cyanobacterial Bloom**
ÖZBAYRAM E. G., Koker L., Akçaaalan R., İnce O., ALBAY M.
AQUATIC SCIENCES AND ENGINEERING, vol.35, no.2, pp.52-56, 2020 (ESCI)
- VI. **Anaerobic lignocellulolytic microbial community derived from hindgut of *Pachnoda Marginata* Larva**
ÖZBAYRAM E. G., İnce O., Kleinstuber S., Nikolausz M.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERİ DERGİSİ, vol.26, no.6, pp.1117-1122, 2020 (ESCI)
- VII. **Microbial community shifts in the oxic-settling-anoxic process in response to changes to sludge interchange ratio**

- Karlikanovaite-Balikci A., Ozbayram E. G., Yağcı N., İnce O.
HELIYON, vol.5, no.4, 2019 (ESCI)
- VIII. **Bahçe atıkları kompostunun yasal düzenlemeler çerçevesinde toprak şartlandırıcısı olarak kullanımının incelenmesi**
Erdem E., İnce O., Akyol Ç., Özayram E. G., İnce B.
Çanakkale Onsekiz Mart Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.1, no.1, pp.65-80, 2015 (Peer-Reviewed Journal)
- IX. **Rumen Sıvısının Aşı Olarak Kullanıldığı Büyükbash Hayvan Dışkısı İle İşletilen Anaerobik Çürütlülerde Asidifikasyon Veriminin İncelenmesi**
Günel G., İnce O., Özayram E. G., Akyol Ç., İnce B.
Çanakkale Onsekiz Mart Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.1, no.1, pp.27-38, 2015 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **FRESHWATER RESEARCHES: FUNDAMENTALS, TRENDS AND PERSPECTIVES**
Albay M. (Editor), Özayram E. G. (Editor), Dorak Z. (Editor), Akçaalan Albay R. (Editor)
İstanbul University Press, İstanbul, 2024
- II. **Antimicrobial Resistance in the Aquatic Environments**
Özayram E. G., Özyurt D.
in: Freshwater Researches: Fundamentals, Trends and Perspectives, Meriç Albay, Gözde Özayram, Zeynep Dorak, Reyhan Akçaalan, Editor, İstanbul University Press, İstanbul, pp.261-285, 2024
- III. **Importance of Mapping the Bacterial Community Dynamics in Inland Waters**
Özayram E. G., Zengin Z., Köker Demo L.
in: Freshwater Researches: Fundamentals, Trends and Perspectives, Meriç Albay, Emine Gözde Özayram, Zeynep Dorak, Reyhan Akçaalan, Editor, İstanbul University, İstanbul, pp.1-20, 2024
- IV. **Upscaled and validated technologies for the production of bio-based materials from wastewater**
Akyol Ç., Özayram E. G., Eusebi A. L., Foglia A., Cipolletta G., Frison N., Conca V., Da Ros C., Wessels C., Ganigué R., et al.
in: Resource Recovery from Water: Principles and Application, Ilje Pikaar, Jeremy Guest, Ramon Ganigué, Paul Jensen, Korneel Rabaey, Thomas Seviour, John Trimmer, Olaf van der Kolk, Céline Vaneekhaute, Willy Verstraete, Editor, IWA Publishing, London, pp.197-222, 2022
- V. **Anaerobic treatment of municipal wastewater**
INCE O., CETECIOGLU Z., ÖZBAYRAM E. G., Iglesias M. M., INCE B., Massalha N., Robles Á., Sabbah I., Seco A.
in: Innovative Wastewater Treatment & Resource Recovery Technologies: Impacts on Energy, Economy and Environment, Juan M. Lema, Sonia Suarez Martinez, Editor, Iwa Publishing, Londra, pp.40-57, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Unveiling Bacterial Communities in Rainwater Harvesting Pond During Summer: Insights from MinION Sequencing**
Özayram E. G., Zengin Z., Köker Demo L., Oğuz Çam A., Albay M., Akçaalan Albay R.
International pond conference 2024 : Ponds and pondscapes for biodiversity, climate and people, 12 - 13 November 2024
- II. **Bacterial Community Composition in a Deep Lake During Spring Turnover with Toxic Cyanobacteria Bloom**
Zengin Z., Özayram E. G., Köker Demo L., Albay M., Akçaalan Albay R.
The 8th International Electronic Conference on Water Sciences, 14 - 16 October 2024, pp.20
- III. **CYANOFRESH- Environmental Friendly Management of Cyanobacteria Blooms in Freshwater**

Resources

- Özbayram E. G., Akçaalan Albay R., Köker Demo L., Oğuz Çam A., Albay M.
3rd International Aquatic Biotechnology Symposium, İstanbul, Turkey, 25 - 27 September 2024, pp.60
- IV. E-DNA metabarcoding use on biomonitoring along the marine coasts of İstanbul**
Kaleli A., Özbayram E. G., Köker Demo L., Zengin Z., Akçaalan Albay R.
3rd International Aquatic Biotechnology Symposium, İstanbul, Turkey, 25 - 27 September 2024, pp.10
- V. Cyanobacteria Bloom in Artificial Ponds: Potential of Biodiesel Production**
Oğuz Çam A., Köker Demo L., Özbayram E. G., Akçaalan Albay R., Albay M.
3rd International Aquatic Biotechnology Symposium, İstanbul, Turkey, 25 - 27 September 2024, pp.52
- VI. Evaluating the Viability of Biogas Production from Aquatic Biomass in the Context of the Green Transition**
Özbayram E. G., Akçaalan Albay R., Özyurt D., Köker Demo L., Zengin Z., Oğuz Çam A., Albay M.
3rd INTERNATIONAL AQUATIC BIOTECHNOLOGY SYMPOSIUM, İstanbul, Turkey, 25 - 27 September 2024, pp.16
- VII. Metabarcoding Approach for Understanding the Taste and Odour Occurrence in A Drinking Water Source**
Zengin Z., Köker L., Özbayram E. G., Albay M., Akçaalan R.
WaterTOP Virtual Conference "Water taste & odor (T&O) – Challenges and research advances, Athens, Greece, 22 February 2024, pp.18
- VIII. The Effect of Seasonal Changes on the Phytochemical Analysis of Dominant Macroalgal Species at the Marmara Sea**
Özyurt D., Oğuz Çam A., Köker Demo L., Özbayram E. G., Öztürk B., Akçaalan Albay R., Albay M.
12th Aegean Analytical Chemistry Days, İstanbul, Turkey, 19 - 22 October 2023, pp.150
- IX. Zengin Z., Akçaalan Albay R., Köker Demo L., Özbayram E. G., Albay M.**
10. Ulusal Limnoloji Sempozyumu, Çankırı, Turkey, 4 - 06 September 2023, pp.11
- X. Küçükçekmece Lagünü'nün Bakteriyel Komünite Çeşitliliği**
Özbayram E. G., Köker Demo L., Akçaalan Albay R., Albay M.
10. Ulusal Limnoloji Sempozyumu, Çankırı, Turkey, 4 - 06 September 2023, pp.1
- XI. Development of a new method for determination of total antioxidant capacity of the macroalgae using fiber optic reflectance spectrophotometer**
Özyurt D., İmert E., Öztürk B., Köker Demo L., Oğuz Çam A., Özbayram E. G., Berker Çetin K. I., Akçaalan Albay R., Albay M.
EuroAnalysis 2023, Geneve, Switzerland, 27 - 31 August 2023, pp.122
- XII. Tatlısu Ekosistemlerinde Yaygın Olarak Bulunan Chlorella vulgaris ve Botryococcus sudeticus Kültürlerinin Azot Eksikliği Koşullarında Biyodizel Verimlerinin İncelenmesi**
Oğuz Çam A., Köker Demo L., Özbayram E. G., Akçaalan Albay R., Albay M.
Ulusal Limnoloji Kongresi, Çankırı, Turkey, 4 - 06 September 2023, pp.15
- XIII. Siyanobakteri Aşırı Artışları ile Mücadelede Çevre Dostu Bir Yöntem Olarak Hidrojen Peroksit Uygulaması**
Köker Demo L., Özbayram E. G., Oğuz Çam A., Akçaalan Albay R., Albay M.
10. Ulusal Limnoloji Sempozyumu, Çankırı, Turkey, 4 - 06 September 2023, pp.14
- XIV. Variation of Water Quality in an Impacted Coastal Lagoon over the last decade (Küçükçekmece Lagoon, Turkey)**
Köker L., Özbayram E. G., Çam A. O., Akçaalan R., Albay M.
The 7th International Electronic Conference on Water Sciences session Water Ecosystems and Environmental Protection, 15 - 30 March 2023, pp.1-5
- XV. Water Quality and Risk Assessment in Rainwater Harvesting Ponds**
Özbayram E. G., Köker L., Çam A. O., Akçaalan R., Albay M.
7th International Electronic Conference on Water Sciences (ECWS-7), 15 - 30 March 2023, pp.1-5
- XVI. Environmental friendly management of cyanobacteria blooms in rainwater harvesting ponds used for agricultural irrigation**
Özbayram E. G., Köker Demo L., Oğuz Çam A., Akçaalan Albay R., Albay M.

- 11th IWA International Symposium on Waste Management Problems in Agro-Industry, Gdansk, Poland, 26 - 28 October 2022, pp.42-44
- XVII. **Effects of Thermal Stratification on Bacterial Community Composition Throughout Water Column in A Deep Lake**
Özbayram E. G., Köker Demo L., Akçaalan R., Aydin F., Albay M.
5th International Conference Water Resources and Wetlands, Tulcea, Romania, 8 - 12 September 2021, pp.190-195
- XVIII. **Temporal variation of bacterial diversity inshore of bird paradise national park**
Özbayram E. G., Köker Demo L., Miraloğlu I. H., Akçaalan R., Albay M.
12th Symposium for European Freshwater Sciences, Dublin, Ireland, 25 July - 30 August 2021, pp.4
- XIX. **Innovations and Cutting-Edge Technology for Microbial Population Determination**
İnce O., Özbayram E. G., İnce B.
Workshop on Enhanced Biogas Production & Recent Innovations, İzmir, Turkey, 17 - 19 March 2021, pp.29-32
- XX. **Spatial Variations of the Bacterial Diversity in an Alkaline Lake**
Özbayram E. G., Köker Demo L., Akçaalan Albay R., Aydin F., Albay M.
1st DNAQUA International Conference, Paris, France, 9 - 11 March 2021, pp.1-3
- XXI. **Comparative study of benthic diatom community using 18S rDNA metabarcoding and light microscopy in the Bosphorus, Turkey**
Kaleli A., Özbayram E. G., Akçaalan R.
1st DNAQUA International Conference, Paris, France, 9 - 11 March 2021, pp.1-4
- XXII. **Seçilen Antifouling Biyositlerin Sucul Ortamda Etkisi**
Albay M., Özbayram E. G., Köker Demo L., Oğuz Çam A., Akçaalan R.
5. Uluslararası Biyosidal Kongresi, Antalya, Turkey, 5 - 07 March 2021, pp.80
- XXIII. **Bioenergy generation from spent tea and potato wastes through anaerobic codigestion within bioeconomy approach**
Özbayram E. G.
20th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Athens, Greece, 26 - 27 October 2020, pp.22-23
- XXIV. **Co-inoculation of rumen fluid with methanogenic sludge exhibits distinct microbial communities in semi-continuous single-phase and two-phase anaerobic digestion of cow manure**
Özbayram E. G., İnce O., Akyol Ç., İnce B.
5th EurAsia Waste Management Symposium 2020, İstanbul, Turkey, 26 - 27 October 2020, pp.54-58
- XXV. **Sustainable Management of Agro Industrial Waste/Wastewater via Anaerobic Digestion**
İnce O., Özbayram E. G., Akyol Ç., Eyidoğan M., Kaya D., İnce B.
2nd IWA Young Water Professionals (YWP) Conference, Warszawa, Poland, 12 - 14 February 2020, pp.1-10
- XXVI. **Improving the bio-reclamation efficiency of petrol-derived wastes with Trichocladium Canadense**
İnce O., Toprak S., Çalışıyor A., Tunçez D., Özbayram E. G., İnce B.
2nd IWA Young Water Professionals (YWP) Conference, Warszawa, Poland, 12 - 14 February 2020, pp.10-18
- XXVII. **Preliminary Study on Contrasting Bacterial Community Structures in Shallow and Deep Lakes: Manyas Vs İznik**
ÖZBAYRAM E. G., KÖKER DEMO L., ALBAY M., İnce O., AKÇAALAN ALBAY R.
3rd International Water and Health Congress, Antalya, Turkey, 12 - 15 November 2019, pp.1-7
- XXVIII. **Siyanobakteri Aşırı Artış Döneminde Sapancı Gölü'ndeki Bakteriyel Komünite Profili**
ÖZBAYRAM E. G., KÖKER DEMO L., AKÇAALAN ALBAY R., İnce O., ALBAY M.
20. Ulusal Su Ürünleri Sempozyumu, Mersin, Turkey, 24 - 26 September 2019, pp.1
- XXIX. **Co-composting of Yard and Kitchen Wastes: Comparative Bacterial Diversity in the Thermophilic Phase**
İnce O., Akyol Ç., Özbayram E. G., Erdem E., İnce B.
10th International Symposium on Waste Management Problems in Agro-Industries AGRO19, Rodos, Greece, 19 - 21 June 2019, pp.1-10
- XXX. **Co-composting of yard and kitchen wastes: comparative bacterial diversity in the thermophilic phase**

- INCE O., AKYOL C., ÖZBAYRAM E. G., Erd E., INCE B.
10th International IWA Symposium on Waste Management Problems in Agro-Industries- AGRO2019, Rodos, Greece, 19 - 21 June 2019, pp.1
- XXXI. **Bioaugmentation of anaerobic digesters with rumen-derived enrichment cultures**
Özbayram E. G., Kleinsteuber S., Nikolausz M., İnce B., İnce O.
17th International Symposium on Microbial Ecology-ISME17, Leipzig, Germany, 12 - 17 August 2018, pp.1-2
- XXXII. **Microbial Community Dynamics in Anaerobic Digesters Fed with Cow Manure and Barley under Different Operational Conditionals**
Tutal B., İnce O., Akyol Ç., Özbayram E. G., İnce B.
VII International Conference on Environmental, Industrial and Applied Microbiology, BioMicroWorld2017, Madrid, Spain, 18 - 20 October 2017, pp.1-2
- XXXIII. **Comparison of bacterial community profiles during composting of yard and kitchen wastes**
Erdem E., İnce O., Özbayram E. G., Akyol Ç., İnce B.
VII International Conference on Environmental, Industrial and Applied Microbiology, BioMicroWorld2017, Madrid, Spain, 18 - 21 October 2017, pp.3-4
- XXXIV. **Taking one more advantage from ruminants: Improvement of methane production in anaerobic digesters**
Özbayram E. G., İnce O., Akyol Ç., Günel G., İnce B.
The 9th Eastern European IWA YWP, Budapest, Hungary, 24 - 27 May 2017, pp.1-3
- XXXV. **Microbial Communities in the Midgut and Hindgut of Sun Beetle Larvae (*Pachnoda marginata*): Bioaugmentation Potential for Anaerobic Reactors Digesting Lignocellulosic Biomass**
Özbayram E. G., Kleinsteuber S., İnce O., İnce B., Nikolausz M.
3rd International Conference on Biogas Microbiology (ICBM-3), Arnhem, Netherlands, 1 - 03 May 2017, pp.1-3
- XXXVI. **Enhancement of methane production by varying operating conditions in anaerobic digesters fed with cow manure and barley**
Tutal B., Akyol C., İnce O., Özbayram E. G., POLAT P. O. K., YAGDI K., İnce B.
253rd National Meeting of the American-Chemical-Society (ACS) on Advanced Materials, Technologies, Systems, and Processes, San-Francisco, Costa Rica, 2 - 06 April 2017, vol.253
- XXXVII. **The effects of bioaugmentation by cellulolytic enrichment cultures from sheep rumen on methane production from wheat straw**
Özbayram E. G., Kleinsteuber S., Nikolausz M., İnce B., İnce O.
Biogas Science , Szeged, Hungary, 21 - 24 August 2016, pp.1-2
- XXXVIII. **Characterization of microbial community structures of cow rumen and manure by pyrosequencing and Q-PCR**
Özbayram E. G., İnce O., Akyol Ç., Kleinsteuber S., Bakrel U., İnce B.
VI International Conference on Environmental, Industrial and Applied Microbiology, BioMicroWorld2015, Barcelona, Spain, 28 - 30 October 2015, pp.1-2
- XXXIX. **Effects of the antimicrobial and antibiotics on the microbial community structure and the development of antibiotic resistance genes in anaerobic sequencing batch reactor**
AYDIN S., ÇETECİOĞLU GÜROL Z., ÖZBAYRAM E. G., ARIKAN O. A., İNCE O.
IWA Balkan Young Water Professionals, 10 - 12 May 2015
- XL. **Chronic Effects of Erythromycin, Tetracycline and Sulfamethoxazole Combinations on the Performance of Anaerobic Sequencing Batch Reactor**
İNCE O., İNCE B., ÇETECİOĞLU GÜROL Z., ÖZBAYRAM E. G., ARIKAN O. A., AYDIN S.
2nd International Conference on Biogas Microbiology, 10 - 12 June 2014
- XLI. **Performance of anaerobic sequencing batch reactor in the treatment of pharmaceutical wastewater containing erythromycin and sulfamethoxazole mixture**
AYDIN S., İNCE B., ARIKAN O. A., İNCE O., ÇETECİOĞLU GÜROL Z., ÖZBAYRAM E. G., OKAY O.
IWA 6th Eastern European Young Water Professionals Conference "East meets West", 28 - 30 May 2014
- XLII. **Long-Term Combined Effects of antibiotics on anaerobic sequencing batch reactors (ASBRs) treating pharmaceutical wastewater", IWA 6th Eastern European Young Water Professionals Conference**

AYDIN S., İNCE O., İNCE B., ÇETECİOĞLU GÜROL Z., ARIKAN O. A., ÖZBAYRAM E. G.

IWA 6th Eastern European Young Water Professionals Conference "East meets West", 28 - 30 May 2014

- XLIII. **Determination of the chronic effects of antibiotic mixtures on resistance genes and microbial community structure within anaerobic sequencing batch reactors treating pharmaceutical wastewater**

AYDIN S., İNCE O., İNCE B., ÇETECİOĞLU GÜROL Z., ÖZBAYRAM E. G.

Biomicroworld 2013, 2 - 04 October 2013

Supported Projects

AKÇAALAN ALBAY R., KÖKER DEMO L., ÖZBAYRAM E. G., ZENGİN Z., OĞUZ ÇAM A., Project Supported by Higher Education Institutions, Kentsel Ekosistem Sürdürülebilirliğinde Yapay Göletler: Siyanobakteri Kaynaklı Problemlerin tespiti, 2024 - Continues

ALBAY M., AKÇAALAN ALBAY R., KÖKER DEMO L., ÖZBAYRAM E. G., OĞUZ ÇAM A., ZENGİN Z., AYDIN F., GÜRSOY A. N., Project Supported by Higher Education Institutions, Değişen Çevresel Baskıların Küçükçekmece Lagünü Su Kalitesine Etkisinin Araştırılması, 2023 - Continues

ÖZBAYRAM E. G., ALBAY M., KÖKER DEMO L., AKÇAALAN ALBAY R., OĞUZ ÇAM A., ATAR A. C., VİSSER P., Project Supported by Higher Education Institutions, Tatlusu Kaynaklarında Siyanobakteri Aşırı Artışlarının Çevre Dostu ve Yenilikçi bir Strateji ile Yönetimi, 2022 - Continues

Özbayram E. G., Albay M., Akçaalan Albay R., Köker Demo L., Zengin Z., Oğuz Çam A., Erasmus Project, ECO-GT:Engineers Communicating and Collaborating Internationally for the Green Transition, 2023 - 2026

Özbayram E. G., Akçaalan Albay R., Albay M., Köker Demo L., Zengin Z., Oğuz Çam A., ÖZYURT D., Project Supported by Higher Education Institutions, Döngüsel biyoekonomi dönüşümünde sucul biyokütleyelerin biyogaz üretim potansiyellerinin değerlendirilmesi, 2023 - 2025

ÖZYURT D., AKÇAALAN ALBAY R., ÖZBAYRAM E. G., KÖKER DEMO L., BERKER ÇETİN K. I., OĞUZ ÇAM A., DEMİRATA ÖZTÜRK B., ALBAY M., ÜNLÜTÜRK C., Project Supported by Higher Education Institutions, Kozmetik Ürünlerinde Kullanılan Makroalglerin ve Kozmetik Ürünlerin Toplam Antioksidan Kapasite Tayini için Yeni Bir Yöntem Geliştirilmesi, 2022 - 2024

AKÇAALAN ALBAY R., KALELİ M. A., ÖZBAYRAM E. G., Project Supported by Higher Education Institutions, Yeni Nesil Moleküler Teknikler ile İstanbul Kıyı Bölgesi Mikroalglerinin İzlenmesi, 2021 - 2024

Akçaalan Albay R., Albay M., Özbayram E. G., Köker Demo L., Oğuz Çam A., Zengin Z., EU Supported Other Project, METGIS: Ecological Triggers in the Production of Cyanobacterial Metabolites (Geosmin, MIB and Cyanotoxins) : a Mesocosm Experiment, 2022 - 2022

ÖZBAYRAM E. G., AYDIN F., KÖKER DEMO L., OĞUZ ÇAM A., AKÇAALAN ALBAY R., ALBAY M., Project Supported by Higher Education Institutions, İznik Gölü Bakteriyel Çeşitliliğinin Yeni Nesil Dizileme Sistemi İle Belirlenmesi, 2020 - 2022
Özbayram E. G., Toscano A., Horizon Europe Project, Safe and sustainable solutions for the integrated use of non-conventional water resources in the mediterranean agricultural sector, 2019 - 2022

Özbayram E. G., Malamis S., H2020 Project, Demonstration of water loops with innovative regenerative business models for the Mediterranean region, 2018 - 2022

Özbayram E. G., İnce O., İnce B., Project Supported by Other Official Institutions, SALDA GÖLÜNÜN MİKROBİYAL EKOLOJİSİNİN İLERİ MOLEKÜLER YÖNTEMLERLE (METABARKODLAMA) BELİRLENMESİ VE JEOMİKROBİYOLOJİK KARAKTERİSTİKLERİNİN HARİTALANMASI ARAŞTIRMA VE GELİŞTİRME PROJESİ, 2021 - 2021

Özbayram E. G., İnce O., Other International Funding Programs, ERANET-LAC: Valorisation Of Agricultural Residues Via Anaerobic Digestion: From Biogas To Carboxylates, 2018 - 2021

Özbayram E. G., TUBITAK Project, Sürdürülebilir Yaklaşım Çerçevesinde Tarıma Dayalı Sanayiden Kaynaklanan Atıklardan Çoklu Substrat Havasız Çürütme Sistemi ile Biyometan Üretiminin Arttırılmasına Yönelik Spesifik Atık Kombinasyonlarının Belirlenmesi, 2019 - 2020

Özbayram E. G., İnce B., Project Supported by Higher Education Institutions, Kalsiyum Aljinat Kürelerine Yerlestirilmiş Trametes versicolor ile Ön-arıtım Yapılarak Mısır Saprofittif Makro Alglerden Biyometan Üretiminin Arttırılması, 2018 - 2019
İnce O., TÜBİTAK - AB COST Project, COST Action FA1302: Spesifik Rumen Bakteriler ve Hidroliz Enzimleri Kullanılarak

Anaerobik Çürütücülerdeki Biyometan Verimliliğinin Arttırılması, 2014 - 2017

TUBITAK Project, COST Action ES1202: Antibakteriyel ve Antibiyotik İçeren Atıksuların Anaerobik Arıtımında Metabolik Yol İzleri Üzerine Etkisinin Belirlenmesi ve Antibiyotik Direnç Genleri ile İlişkilerinin İncelenmesi, 2011 - 2014

Activities in Scientific Journals

FRONTIERS IN ENVIRONMENTAL SCIENCE, Assistant Editor/Section Editor, 2022 - Continues

Aquatic Research, Committee Member, 2022 - Continues

Aquatic Science and Engineering, Committee Member, 2022 - Continues

FRONTIERS IN ENVIRONMENTAL SCIENCE, Committee Member, 2021 - Continues

Environmental Management, Special Issue Editor, 2020 - 2020

Scientific Refereeing

ENVIRONMENTAL TECHNOLOGY, Journal Indexed in SCI-E, September 2021

ENVIRONMENTAL TECHNOLOGY, Journal Indexed in SCI-E, July 2021

SCIENTIFIC REPORTS, SCI Journal, April 2021

MARINE POLLUTION BULLETIN, SCI Journal, February 2021

ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, SCI Journal, January 2021

JOURNAL OF HAZARDOUS MATERIALS, SCI Journal, January 2021

ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, SCI Journal, January 2021

BIOMASS CONVERSION AND BIOPROCESSING, SCI Journal, April 2020

SCIENCE OF THE TOTAL ENVIRONMENT, SCI Journal, March 2020

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, National Scientific Refreed Journal, March 2020

DESALINATION AND WATER TREATMENT, SCI Journal, February 2020

ENVIRONMENTAL TECHNOLOGY, SCI Journal, January 2020

Energy, SCI Journal, November 2019

Bioresource Technology, SCI Journal, November 2019

Scientific reports, SCI Journal, October 2019

Türk Botanik Dergisi, National Scientific Refreed Journal, July 2019

Environmental Science and Pollution Research, SCI Journal, July 2019

Desalination and Water Treatment, SCI Journal, July 2019

MicrobiologyOpen, SCI Journal, April 2019

Journal of Environmental Management, SCI Journal, April 2019

Environmental Science and Pollution Research, SCI Journal, February 2019

Environmental Progress and Sustainable Energy, SCI Journal, February 2019

Tasks In Event Organizations

Özbayram E. G., 12th IWA International Symposium on Waste Management Problems in Agro-Industries, Scientific Congress, İstanbul, Turkey, Eylül 2025

Memiş D., Tunçelli G., Deniz G., Albay M., İşinbilir Okyar M., Altuğ G., Erkan Özden N., Akçaalan Albay R., Çiftçi Türetken P. S., Özbayram E. G., et al., 3rd International Aquatic Biotechnology Symposium, Scientific Congress, İstanbul, Turkey, Eylül 2024

Özbayram E. G., 18th IWA World Conference on Anaerobic Digestion, Scientific Congress, İstanbul, Turkey, Haziran 2024

Özbayram E. G., 11th International IWA Symposium on Waste Management Problems in Agro-Industries, Scientific Congress, Gdańsk, Poland, Ekim 2022

Albay M., Memiş D., Akçaalan Albay R., Özden Ö., Ekici A., Demircan M. D., Özbayram E. G., Çiftçi Türetken P. S., TUNÇELLİ

G., ÇANAK Ö., et al., 2nd International Aquatic Biotechnology Symposium, Scientific Congress, İstanbul, Turkey, Ekim 2021
Özbayram E. G., 3rd IWA Resource Recovery Conference, Scientific Congress, Venice, Italy, Eylül 2019
Özbayram E. G., 10th International IWA Symposium on Waste Management Problems in Agro-Industries- AGRO2019, Scientific Congress, Rodos, Greece, Haziran 2019
Özbayram E. G., Workshop on Innovative Wastewater Treatment and Resource Recovery Technologies: Impact on Energy, Economy and Environment, Workshop Organization, İstanbul, Turkey, Mayıs 2018
Özbayram E. G., Workshop on Microbial Ecology and Technology of Anaerobic Degradation, Workshop Organization, İstanbul, Turkey, Eylül 2014

Scientific Research / Working Group Memberships

Microbial Ecology Group-MEG, İSTANBUL TEKNİK ÜNİVERSİTESİ, Turkey, <http://www.meg.boun.edu.tr/>, 2010 - Continues

Metrics

Publication: 98
Citation (WoS): 826
Citation (Scopus): 882
H-Index (WoS): 18
H-Index (Scopus): 18

Congress and Symposium Activities

11th International Symposium on Waste Management Problems in Agro-Industries , Session Moderator, Gdańsk, Poland, 2022
3rd International Water and Health Congress, Attendee, Antalya, Turkey, 2019
3rd IWA Resource recovery Conference, Attendee, Venice, Italy, 2019
20. Ulusal Su Ürünleri Sempozyumu, Attendee, Mersin, Turkey, 2019
Kick-off Meeting-Valorisation Of Agricultural Residues Via Anaerobic Digestion: From Biogas To Carboxylates, Attendee, Leipzig, Germany, 2019
10th International Symposium on Waste Management Problems in Agro-Industries, Attendee, Rodos, Greece, 2019
Next Generation Sequencing-Illumina MiSeq Platform, Attendee, Leipzig, Germany, 2018
BioMicroWorld2017, Attendee, Madrid, Spain, 2017
3rd International Conference on Biogas Microbiology (ICBM-3), Attendee, Utrecht, Netherlands, 2017
The 9th Eastern European IWA YWP, Attendee, Budapest, Hungary, 2017
Water 2020-Final State of the Art Seminar, Attendee, Barcelona, Spain, 2016
BioMicroWorld2015, Attendee, Barcelona, Spain, 2015
IWA Balkan Young Water Professional 2015 Conference, Attendee, Thessaloniki, Greece, 2015
Conceiving Wastewater Treatment in 2020 Energetic, environmental and economic challenges Cost Action ES1202-WG1 and WG3 Meeting, Attendee, İstanbul, Turkey, 2014
EcoSTP2014 Conference, Attendee, Verona, Italy, 2014
Conceiving Wastewater Treatment in 2020 – Energetic, environmental and economic challenges Cost Action ES1202,WG Meetings, Attendee, Verona, Italy, 2014
6th IWA YWP European Water Professionals Conference “EAST meets WEST”, Attendee, Turkey, 2014
V. International Conference on Environmental, Industrial and Applied Microbiology, Attendee, Madrid, Spain, 2013

Scholarships

Research Stays for University Academics and Scientists, Other International Organizations, 2024 - 2024

2214A International Research Fellowship Programme for PhD Students, TUBITAK, 2015 - 2016

Non Academic Experience

Helmholtz Center for Environmental Research (UFZ)