

Doç.Dr. Sevcan AYDIN

Kişisel Bilgiler

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Eğitim Bilgileri

Bütünleşik Doktora, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Biyoteknoloji, Türkiye 2010 - 2015

Lisans, Ege Üniversitesi, Fen Fakültesi, Biyoloji Bölümü, Türkiye 2003 - 2008

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Bütünleşik Doktora, Combined effects of antibiotics on the anaerobic microbial community structure, investigation of metabolites and antibiotic resistance genes, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Mühendislik Fakültesi, 2015

Araştırma Alanları

Mikrobiyoloji ve Klinik Mikrobiyoloji, Çevre Mikrobiyolojisi, Biyoteknoloji, Çevre Biyolojisi, Mikrobiyoloji, Moleküler Biyoloji ve Genetik

Akademik Unvanlar / Görevler

Doç.Dr., İstanbul Üniversitesi, Fen Fakültesi, Biyoloji Bölümü, 2021 - Devam Ediyor

Doç.Dr., Nişantaşı Üniversitesi, Mühendislik-Mimarlık Fakültesi, Genetik Ve Biyomühendislik Bölümü, 2017 - 2021

Mesleki Deneyim

Dekan Yardımcısı, Nişantaşı Üniversitesi, Mühendislik-Mimarlık Fakültesi, Genetik Ve Biyomühendislik Bölümü, 2020 - 2021

Verdiği Dersler

Sistemik ve Biyoçeşitlilik, Lisans, 2020 - 2021

Beneficial Organisms, Lisans, 2020 - 2021

Kişisel Proje II, Lisans, 2020 - 2021

Genel Biyoloji, Lisans, 2020 - 2021
Bitirme Tezi II, Lisans, 2020 - 2021
Bitirme Tezi I, Lisans, 2020 - 2021
Genetik Mühendisliği, Lisans, 2020 - 2021

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Bioaugmentation with immobilized endophytic *Penicillium restrictum* to improve quorum quenching activity for biofouling control in an aerobic hollow-fiber membrane bioreactor treating antibiotic-containing wastewater**
Fakhri H., Shahi A., Övez S., Aydın S.
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, cilt.210, 2021 (SCI İndekslerine Giren Dergi)
- II. **Pyophage cocktail for the biocontrol of membrane fouling and its effect in aerobic microbial biofilm community during the treatment of antibiotics**
Aydın S., CAN K.
BIORESOURTE TECHNOLOGY, cilt.318, 2020 (SCI İndekslerine Giren Dergi)
- III. **Sustainable bioremediation of antibacterials, metals and pathogenic DNA in water**
Islas-Espinoza M., Aydın S., de las Heras A., Ceron C. A. , Martinez S. G. , Carlos Vazquez-Chagoyan J.
JOURNAL OF CLEANER PRODUCTION, cilt.183, ss.112-120, 2018 (SCI İndekslerine Giren Dergi)
- IV. **Bioaugmentation with *Clostridium thermocellum* to enhance the anaerobic biodegradation of lignocellulosic agricultural residues**
Oner B. E. , Akyol C., Bozan M., İnce O., Aydın S., Ince B.
BIORESOURTE TECHNOLOGY, cilt.249, ss.620-625, 2018 (SCI İndekslerine Giren Dergi)
- V. **Operating conditions influence microbial community structures, elimination of the antibiotic resistance genes and metabolites during anaerobic digestion of cow manure in the presence of oxytetracycline**
Turker G., Akyol C., İnce O., Aydın S., Ince B.
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, cilt.147, ss.349-356, 2018 (SCI İndekslerine Giren Dergi)
- VI. **Microbial monitoring of ammonia removal in a UASB reactor treating pre-digested chicken manure with anaerobic granular inoculum**
Gömeç Ç., Pekyavas G., Sapmaz T., Aydın S., Ince B., Akyol C., İnce O.
BIORESOURTE TECHNOLOGY, cilt.241, ss.332-339, 2017 (SCI İndekslerine Giren Dergi)
- VII. **Application of next-generation sequencing methods for microbial monitoring of anaerobic digestion of lignocellulosic biomass**
Bozan M., Akyol C., İnce O., Aydın S., Ince B.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, cilt.101, sa.18, ss.6849-6864, 2017 (SCI İndekslerine Giren Dergi)
- VIII. **Improvement of biogas potential of anaerobic digesters using rumen fungi**
Yildirim E., İnce O., Aydın S., Ince B.
RENEWABLE ENERGY, cilt.109, ss.346-353, 2017 (SCI İndekslerine Giren Dergi)
- IX. **Assessment of the horizontal transfer of functional genes as a suitable approach for evaluation of the bioremediation potential of petroleum-contaminated sites: a mini-review**
Shahi A., Ince B., Aydın S., İnce O.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, cilt.101, sa.11, ss.4341-4348, 2017 (SCI İndekslerine Giren Dergi)
- X. **Rumen anaerobic fungi create new opportunities for enhanced methane production from microalgae biomass**
Aydın S., Yildirim E., İnce O., Ince B.
ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS, cilt.23, ss.150-160, 2017 (SCI İndekslerine Giren Dergi)

- XI. **Aerobic and anaerobic fungal metabolism and Omics insights for increasing polycyclic aromatic hydrocarbons biodegradation**
Aydin S., Karacay H. A. , Shahi A., Gokce S., Ince B., İnce O.
FUNGAL BIOLOGY REVIEWS, cilt.31, sa.2, ss.61-72, 2017 (SCI İndekslerine Giren Dergi)
- XII. **Reconstruction of bacterial community structure and variation for enhanced petroleum hydrocarbons degradation through biostimulation of oil contaminated soil**
Shahi A., Aydin S., Ince B., İnce O.
CHEMICAL ENGINEERING JOURNAL, cilt.306, ss.60-66, 2016 (SCI İndekslerine Giren Dergi)
- XIII. **A comprehensive microbial insight into single-stage and two-stage anaerobic digestion of oxytetracycline-medicated cattle manure**
Akyol C., Aydin S., İnce O., Ince B.
CHEMICAL ENGINEERING JOURNAL, cilt.303, ss.675-684, 2016 (SCI İndekslerine Giren Dergi)
- XIV. **The effects of white-rot fungi *Trametes versicolor* and *Bjerkandera adusta* on microbial community structure and functional genes during the bioaugmentation process following biostimulation practice of petroleum contaminated soil**
Shahi A., Aydin S., Ince B., İnce O.
INTERNATIONAL BIODETERIORATION & BIODEGRADATION, cilt.114, ss.67-74, 2016 (SCI İndekslerine Giren Dergi)
- XV. **Enhanced biodegradation of antibiotic combinations via the sequential treatment of the sludge resulting from pharmaceutical wastewater treatment using white-rot fungi *Trametes versicolor* and *Bjerkandera adusta***
Aydin S.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, cilt.100, sa.14, ss.6491-6499, 2016 (SCI İndekslerine Giren Dergi)
- XVI. **Changes in microbial community structures due to varying operational conditions in the anaerobic digestion of oxytetracycline-medicated cow manure**
Turker G., Aydin S., Akyol C., Yenigun O., İnce O., Ince B.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, cilt.100, sa.14, ss.6469-6479, 2016 (SCI İndekslerine Giren Dergi)
- XVII. **Microbial sequencing methods for monitoring of anaerobic treatment of antibiotics to optimize performance and prevent system failure**
Aydin S.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, cilt.100, sa.12, ss.5313-5321, 2016 (SCI İndekslerine Giren Dergi)
- XVIII. **Enhancement of microbial diversity and methane yield by bacterial bioaugmentation through the anaerobic digestion of *Haematococcus pluvialis***
Aydin S.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, cilt.100, sa.12, ss.5631-5637, 2016 (SCI İndekslerine Giren Dergi)
- XIX. **Assessment of anaerobic bacterial diversity and its effects on anaerobic system stability and the occurrence of antibiotic resistance genes**
Aydin S., Ince B., İnce O.
BIORESOURTE TECHNOLOGY, cilt.207, ss.332-338, 2016 (SCI İndekslerine Giren Dergi)
- XX. **Evaluation of microbial population and functional genes during the. bioremediation of petroleum-contaminated soil as an effective monitoring approach**
Shahi A., Aydin S., Ince B., İnce O.
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, cilt.125, ss.153-160, 2016 (SCI İndekslerine Giren Dergi)
- XXI. **Biomimetic Approaches for Membrane Technologies**
Sengur-Tasdemir R., Aydin S., Turken T., Genceli E. A. , Koyuncu İ.
SEPARATION AND PURIFICATION REVIEWS, cilt.45, sa.2, ss.122-140, 2016 (SCI İndekslerine Giren Dergi)
- XXII. **Development of antibiotic resistance genes in microbial communities during long-term operation of**

anaerobic reactors in the treatment of pharmaceutical wastewater

Aydin S., Ince B., Ince O.

WATER RESEARCH, cilt.83, ss.337-344, 2015 (SCI İndekslerine Giren Dergi)

- XXIII. **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., Ince O.
BIORESOURCE TECHNOLOGY, cilt.192, ss.735-740, 2015 (SCI İndekslerine Giren Dergi)
- XXIV. **Combined effect of erythromycin, tetracycline and sulfamethoxazole on performance of anaerobic sequencing batch reactors**
Aydin S., Ince B., Cetecioglu Z., Arıkan O., Ozbayram E. G. , Shahi A., Ince O.
BIORESOURCE TECHNOLOGY, cilt.186, ss.207-214, 2015 (SCI İndekslerine Giren Dergi)
- XXV. **Application of real-time PCR to determination of combined effect of antibiotics on Bacteria, Methanogenic Archaea, Archaea in anaerobic sequencing batch reactors**
Aydin S., Ince B., Ince O.
WATER RESEARCH, cilt.76, ss.88-98, 2015 (SCI İndekslerine Giren Dergi)
- XXVI. **Acute effects of various antibiotic combinations on acetoclastic methanogenic activity**
Ozbayram E. G. , Arıkan O., Ince B., Cetecioglu Z., Aydin S., Ince O.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, cilt.22, sa.8, ss.6230-6235, 2015 (SCI İndekslerine Giren Dergi)
- XXVII. **Inhibitory effects of antibiotic combinations on syntrophic bacteria, homoacetogens and methanogens**
Aydin S., Cetecioglu Z., Arıkan O., Ince B., Ozbayram E. G. , Ince O.
CHEMOSPHERE, cilt.120, ss.515-520, 2015 (SCI İndekslerine Giren Dergi)
- XXVIII. **The joint acute effect of tetracycline, erythromycin and sulfamethoxazole on acetoclastic methanogens**
Aydin S., Ince B., Ince O.
WATER SCIENCE AND TECHNOLOGY, cilt.71, sa.8, ss.1128-1135, 2015 (SCI İndekslerine Giren Dergi)
- XXIX. **Inhibitory effect of erythromycin, tetracycline and sulfamethoxazole antibiotics on anaerobic treatment of a pharmaceutical wastewater**
Aydin S., Ince B., Ince O.
WATER SCIENCE AND TECHNOLOGY, cilt.71, sa.11, ss.1620-1628, 2015 (SCI İndekslerine Giren Dergi)
- XXX. **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., Arıkan O. A. , Ince O.
Water science and technology : a journal of the International Association on Water Pollution Research, cilt.70, sa.10, ss.1625-32, 2014 (SCI Expanded İndekslerine Giren Dergi)

Kitap & Kitap Bölümleri

I. Metabolic Engineering

Aydın S.

Microbial Systematics: Taxonomy, Microbial Ecology, Diversity, Bhagwan Rekadwad, Editör, CRC, New York , New York, ss.100-113, 2020

Desteklenen Projeler

Aydın S., Yıldırım S. T. , Yükseköğretim Kurumları Destekli Proje, Penicillium restrictum ve Haematococcus pluvialis kullanılarak çimento esaslı malzemelerde çatlakların biyomineralizasyonu, 2020 - 2021

Can K., Aydın S., Yükseköğretim Kurumları Destekli Proje, Çeşitli Gram Negatif Çomaklara Özgül Fajlarının İzolasyonu ve

İnvitro Etkinliklerinin Araştırılması, 2020 - 2021

Aydın S., TÜBİTAK Projesi, Anaerobik ve aerobik biyofilm tabakasında yer alan aktif mikrobiyal komünitenin incelenip, biyolojik temizleme ajanlarının biyofilm tabakasının ve antibiyotik direnç gelişiminin önlenmesindeki potansiyelinin belirlenmesi, 2017 - 2021

İnce B., Aydın S., TÜBİTAK Projesi, Yaygın Olarak Yetiştirilen Tahılların Büyükbaş Hayvan Dışkı ile Beraber Biyometan Potansiyellerinin Belirlenmesi, Kompostlaştırılması, Mikrobiyal Yapı Dinamiklerinin Araştırılması Ve Son Ürünlerin Ekosisteme Etkisinin İncelenmesi, 2016 - 2019

İnce O., Aydın S., İnce B., TÜBİTAK Uluslararası İkili İşbirliği Projesi, Petrol Türevi Atıkların Anaerobik Biyodegradasyon Verimliliğinin Geliştirilmesi- SIFIRATIK, 2016 - 2019

Bilimsel Hakemlikler

UFUK 2020 Projesi, H2020 Araştırma Altyapı Projeleri, the European Union's Horizon 2020 research and innovation programme, Belçika, Ocak 2021

Atıflar

Toplam Atıf Sayısı (WOS):672

h-indeksi (WOS):16