

Prof. Didem BALKANLI

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-4681-2020

Yoksis Researcher ID: 173854

Education Information

Undergraduate, Anadolu University, Faculty Of Economics, Uluslararası İlişkiler (İng), Turkey 2019 - 2022

Undergraduate, Anadolu University, Faculty Of Business Administration, İşletme, Turkey 2004 - 2008

Doctorate, Istanbul Technical University, Fen Bilimleri, Kimya Mühendisliği, Turkey 2001 - 2007

Postgraduate, Istanbul Technical University, Fen Bilimleri, Kimya Mühendisliği, Turkey 1999 - 2001

Undergraduate, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, Turkey 1994 - 1998

Research Areas

Chemical Engineering and Technology, Biotechnology, Process Design, Life Sciences, Biomaterial, Bioreactor, Engineering and Technology

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2019 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2014 - 2019

Associate Professor, 2018 - 2018

Assistant Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2011 - 2014

Lecturer PhD, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2009 - 2011

Research Assistant, Istanbul Technical University, Kimya-Metalurji Fakültesi, Kimya Mühendisliği, 2001 - 2008

Academic and Administrative Experience

Vice Dean, Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, 2019 - Continues

Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Biyomühendislik, 2018 - Continues

Yıldız Teknik Üniversitesi, Biyomühendislik, Biyomühendislik, 2013 - Continues

Fakülte Kurulu Üyesi, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of

Bioengineering, 2020 - 2023

Rektörlük Kalite Komisyonu Üyesi, Yıldız Technical University, Rectorate, 2020 - 2022

BAP Scientific Commissioner, Yıldız Technical University, Rectorate, 2020 - 2022

Deputy Head of Department, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Biyomühendislik, 2018 - 2022

Fakülte Yönetim Kurulu Üyesi, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, 2014 - 2020

Rectorate Commissioner, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, 2016 - 2019
Yıldız Teknik Üniversitesi, Biyomühendislik, Biyomühendislik, 2012 - 2016

Courses

Biyoreaktör Tasarımı, Undergraduate, 2020 - 2021

Biyomühendislik Ekonomisi, Undergraduate, 2020 - 2021

Endüstriyel Biyoteknoloji ve Biyomühendislik Ekonomisi, Postgraduate, 2019 - 2020

Biyoekonomi, Postgraduate, 2018 - 2019, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Engineering Laboratory, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Bioengineering Laboratory II, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Biyoyakıtlar, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Bioengineering Laboratory I, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Renewable Energy Technologies, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

Heat Transfer in Bioengineering, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Biyoproses Mühendisliği, Undergraduate, 2018 - 2019, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

Bioreactor Design , Undergraduate, 2016 - 2017

Advising Theses

Balkanlı D., Egzama tedavisine yönelik uçucu yağ içerikli yara örtüsü tasarımı, Doctorate, F.Mehmet(Student), Continues

Balkanlı D., Kutup Mikroalglerinden Biyonanoteknolojik Ürün Üretimi, Doctorate, B.KARACAĞLU(Student), Continues

Balkanlı D., ANTİKANSER ÇALIŞMALARI VE İLAÇ FORMÜLASYONU İÇİN 3B-BİYOBASKI BİYOMÜREKKEBİ GELİŞTİRİLMESİ, Doctorate, G.Ayşin(Student), Continues

Balkanlı D., Yerli Kaynaklardan İzole Edilmiş Probiyotiklerle Mikroalglerin Biyoproses İnteraksiyonu ve Fonksiyonel Gıda Ürünü Geliştirilmesi, Doctorate, A.Emre(Student), Continues

Balkanlı D., Çok İşlevli 3B-Baskı Yara Dokusu İskelesi, Doctorate, E.Ece(Student), Continues

Balkanlı D., Deniz Müsilajını Önlemek İçin Arıtma Tesislerinden Çeşitli Karakteristiklere Sahip Atıksularda Mikroalg Yetiştiriciliği, Doctorate, H.Kabakçı(Student), Continues

Balkanlı D., Kutup Örneklerinde Biyoürünleştirme Çalışmaları, Doctorate, F.Karakaya(Student), Continues

Balkanlı D., Weiland F., Metaproteomic Analysis of Barley Germination Regime Under the Influence of Increased Temperature, Postgraduate, E.Göksu(Student), 2024

Balkanlı D., Kutup mikroalglerinden biyorefineri yaklaşımıyla biyoyakıt üretim prosesi simülasyonu / Process simulation of biofuel production from polar microalgae with biorefinery approach, Postgraduate, T.AYDEMİR(Student), 2024

Balkanlı D., Mezoterapi Solüsyonlarının Üretimi, Postgraduate, F.KAYA(Student), 2024

Balkanlı D., Farklı karbon ve azot kaynaklarının Dunaliella salina mikroalginin mikсотrofik büyümesine etkisi, Postgraduate, M.FIÇICIOĞLU(Student), 2024

Balkanlı D., Mikroalg Yüklü Yara Örtülerinin 3B Biyobaskı İle Geliştirilmesi, Postgraduate, D.YERLİKAYA(Student), 2024

Balkanlı D., Using microfluidic systems for microalgal bioprocess and biotechnology, Postgraduate, B.KARACAOĞLU(Student), 2024

Balkanlı D., İlaç Taşınımında Kullanılmak Üzere Yeni Nesil Malzeme Üretimi, Doctorate, S.Kaptan(Student), 2023

Balkanlı D., Probiyotik Bakteri İçeren Sert Yüzey Temizleyici Formülasyonunun Geliştirilmesi, Doctorate, M.Vehapi(Student), 2023

Balkanlı D., Kutup Mikroalgi İçeren Medikal Krem Formülasyonunun Geliştirilmesi, Postgraduate, Ş.M.Eyier(Student), 2023

Balkanlı D., Development of medical shampoo formulation containing polar microalgae, Postgraduate, B.Akın(Student), 2023

Balkanlı D., Mikroalg üretimi için laboratuvar ölçekli solar biyoreaktör tasarımı ve mikroalglerin tarımsal uygulamalarda kullanımı, Doctorate, V.Erci(Student), 2023

Balkanlı D., Alglerden yeşil sentez ile metalik nanopartiküllerin üretim optimizasyonu ve bu nanopartiküllerin antibakteriyal etkinliklerinin incelenmesi , Doctorate, A.Tevfik(Student), 2023

Balkanlı D., Characterization and anticancer activity of the auxenochlorella pyrenoidosa Ozcimen.001 and chlorella sorokiniana Egemen.002 polar microalgae, Postgraduate, G.AYŞİN(Student), 2023

Özçimen D., Antarktika'dan izole edilen Auxenochlorella pyrenoidosa Ozcimen.001 mikroalginin SARS-CoV-2'ye karşı antiviral etkinliği, Postgraduate, S.GÜLSOY(Student), 2022

Özçimen D., Chlorella variabilis YTU.ANTARCTIC.001 Mikroalginin SARS-CoV-2' ye Karşı Antiviral Etkinliğinin Araştırılması, Postgraduate, İ.Dilara(Student), 2022

Özçimen D., Büyük Ölçekli Biyogaz Tesisindeki Biyometan Üretim Potansiyelinin ve Kinetiğinin İncelenmesi, Postgraduate, B.Sekmen(Student), 2022

Özçimen D., Investigation of Antarctic Microalge Cultivation for Biotechnological Applications, Postgraduate, A.Çelik(Student), 2021

Özçimen D., Utilization of Process Water from Hydrothermal Conversion for Microalgae Production, Postgraduate, S.Zora(Student), 2020

Özçimen D., Mikroalgal biyoproses optimizasyonu, mikroalgal ekstrakt yüklü nanopartiküllerin üretimi ve antikanser etkilerinin araştırılması , Doctorate, B.İnan(Student), 2019

Özçimen D., Işıldak İ., Kısa, Orta ve Uzun Dönem Kan Şeker Ölçümlerini Eş Zamanlı Gerçekleştiren Yeni Bir Ölçüm Yöntemi Geliştirilmesi, Doctorate, D.Üner(Student), 2019

Özçimen D., Denizel Diatom İzolasyonu, Tanımlanması ve Besin Maddelerinin Diatom Büyümesi Üzerine Etkisinin İncelenmesi, Postgraduate, S.Çinar(Student), 2017

Özçimen D., Algal Biyoaktiflerle Yüklü Nanopartiküllerin Elektrosprey ve Mikroemülsiyon Yöntemleri ile Üretimi ve Karakterizasyonu, Postgraduate, C.Yağmur(Student), 2017

Özçimen D., Alglerden Biyogaz Üretim Potansiyelinin Araştırılması, Postgraduate, A.Tevfik(Student), 2017

Özçimen D., Chlorella minutissima ve Nannochloropsis oculata Mikroalglerinin Farklı Yöntemler Kullanılarak Flokülasyon Performanslarının Değerlendirilmesi, Postgraduate, S.Akış(Student), 2016

Özçimen D., Investigation of Different Medium Additives for Microalgae Growth, Postgraduate, B.Özgür(Student), 2016

Özçimen D., Makro ve Mikroalglerin Antimikrobiyal ve Antioksidan Etkilerinin İncelenmesi, Postgraduate, M.Vehapi(Student), 2016

Özçimen D., Mikro ve Makroalglerin Biyochar Üretiminde Değerlendirilmesi, Postgraduate, B.Mutlu(Student), 2016

Özçimen D., Bakteriyel Ekzopolisakkaritlere Alternatif Olarak Mikroalgal Ekzopolisakkarit Üretiminin Araştırılması, Postgraduate, S.Kaptan(Student), 2016

Özçimen D., Optimization Study of Novel Biodiesel Production Methods from Chlorella Protothecoides Oil, Postgraduate, M.Ömer(Student), 2016

Özçimen D., Nanopartiküllerin mikroalgal büyüme üzerine olan etkilerinin araştırılması, Postgraduate, D.ÖZTAY(Student), 2016

Özçimen D., Chlorella Minutissima Mikroalginden Biyoetanol Eldesi, Postgraduate, B.Şerbetçioğlu(Student), 2016

Özçimen D., Cultivation of Nannochloropsis oculata and Tetraselmis suecica in Treated Municipal Wastewater Toward Microalgal Bioethanol Production, Postgraduate, Z.Reyimu(Student), 2016

Özçimen D., Alglerin Biyoetanol Üretiminde Değerlendirilmesi, Postgraduate, B.İnan(Student), 2014

Özçimen D., Bitkisel Atıklardan Karbonizasyon Yoluyla Farklı Kullanım Amaçlı Katı Materyallerin Üretimi, Postgraduate,

C.Karakaş(Student), 2013

Özçimen D., Yücel S., Fındık yağından ultrasonik yöntemle biyodizel eldesi (Eş Danışman), Postgraduate,

C.Kesgin(Student), 2011

Jury Memberships

Doctorate, Doctorate, İstanbul Teknik Üniversitesi, August, 2024

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, July, 2023

Doctorate, Doctorate, İstanbul Teknik Üniversitesi, June, 2023

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2023

Associate Professor Exam, Associate Professor Exam, Fırat Üniversitesi, April, 2021

Competition, BIOFUTURATHON, February, 2021

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, February, 2021

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, June, 2020

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2020

Associate Professor Exam, Associate Professor Exam, Üniversitelerarası Kurum ÜAK, April, 2020

Associate Professor Exam, Associate Professor Exam, Üniversitelerarası Kurum ÜAK, March, 2020

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, December, 2019

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, December, 2019

Doctorate, Doctorate, Yıldız Technical University, December, 2019

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2019

Doctorate, D.V. Yıldız-Doktora Tez Savunma, Yıldız Teknik Üniversitesi, May, 2019

Doctorate, I.Jahan-Doktora Tez Savunma, Yıldız Teknik Üniversitesi, May, 2019

Post Graduate, M.Abahuni-Yüksek Lisans Tez Savunma, Yıldız Teknik Üniversitesi, April, 2019

Post Graduate, Fatma Çağla Erkoç Türeyen - Yüksek Lisans Tez Savunma Sınavı, İstanbul Teknik Üniversitesi, December, 2018

Post Graduate, Cemre Kılıç- Yüksek Lisans Tez Savunması, Yıldız Teknik Üniversitesi, November, 2018

Post Graduate, Alev Akbaş - Yüksek Lisans Tez Savunma Sınavı, İstanbul Teknik Üniversitesi, May, 2018

Post Graduate, Özlem Kabak - Yüksek Lisans Tez Savunma Sınavı, İstanbul Teknik Üniversitesi, May, 2018

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, April, 2018

Post Graduate, Ahsen Ünal-Yüksek Lisans Tez Savunma Sınavı, İstanbul Teknik Üniversitesi, December, 2017

Competition, IEEE YTÜ Yıldızlı Projeler Yarışması, Yıldız Teknik Üniversitesi, May, 2017

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Teknik Üniversitesi, April, 2017

Post Graduate, Tuğçe Dalkıran- Yüksek Lisans Tez Savunma Sınavı, İstanbul Teknik Üniversitesi, November, 2016

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Teknik Üniversitesi, May, 2016

Post Graduate, Gülsüm Kılıç-Yüksek Lisans Tez Savunma Sınavı, Yıldız Teknik Üniversitesi, November, 2015

Doctorate, Pınar Terzioğlu- Doktora Tez Savunma Sınavı, Yıldız Teknik Üniversitesi, November, 2015

Post Graduate, Gülşen Kurt- Yüksek Lisans Tez Savunma Sınavı, İstanbul Teknik Üniversitesi, May, 2015

Doctoral Examination, Israt Jahan-Doktora Yeterlik Sınavı, Yıldız Teknik Üniversitesi, April, 2015

Doctoral Examination, Tuğba Özer-Doktora Yeterlik Sınavı, Yıldız Teknik Üniversitesi, April, 2015

Doctoral Examination, Fatih Erci-Doktora Yeterlik Sınavı, Yıldız Teknik Üniversitesi, April, 2015

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, August, 2014

Post Graduate, Rıdvan Yıldırım-Yüksek Lisans Tez Savunma Sınavı, Yıldız Teknik Üniversitesi, August, 2014

Post Graduate, Ezgi Bilgiç- Yüksek Lisans Tez Savunma Sınavı, İstanbul Teknik Üniversitesi, May, 2014

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, January, 2013

Doctoral Examination, Özlem Tavukçuoğlu-Doktora Yeterlik Sınavı, Yıldız Teknik Üniversitesi, April, 2012

Doctoral Examination, İsa Rahmanlar-Doktora Yeterlik Sınavı, Yıldız Teknik Üniversitesi, March, 2012

Doctoral Examination, Pınar Terzioğlu-Doktora Yeterlik Sınavı, Yıldız Teknik Üniversitesi, March, 2012

Designed Lessons

- Özçimen D., Biyomühendislik Ekonomisi, Undergraduate, 2016 - 2017
Özçimen D., Yenilenebilir Enerji Teknolojileri, Postgraduate, 2012 - 2013
Özçimen D., Biyoekonomi, Postgraduate, 2011 - 2012
Özçimen D., Biyoyakıtlar, Postgraduate, 2011 - 2012

Taught Courses And Trainings

- Özçimen D., Yenilenebilir Enerji ve Algal Biyoyakıtlar Eğitimi, 2015 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **From ice to neurons: investigating the neuroprotective effects of Antarctic microalgae *Chlorella variabilis* and *Chlorella pyrenoidosa* extracts**
İnan B., Mutlu B., Çakır R., Balkanlı D.
3 Biotech, vol.14, no.250, pp.1-10, 2024 (SCI-Expanded)
- II. **An experimental study on the combustion behaviours of orange peel-based solid biofuels**
Koçer A. T., Özçimen D., Gökalp İ.
Biomass Conversion and Biorefinery, vol.14, no.18, pp.22839-22851, 2024 (SCI-Expanded)
- III. **A Thermal Degradation Study of Disposable Face Mask Wastes: Determination of Kinetic and Thermodynamic Parameters**
Koçer A. T., Balkanlı D.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.1, no.1, pp.1, 2024 (SCI-Expanded)
- IV. **Thermal behavior analysis and biochar formation through co-pyrolysis of de-oiled microalgae biomass and wood sawdust for ecofriendly resource utilization**
Koçer A. T., İnan B., Karaca G. A., Karacaoğlu B., Balkanlı D.
ALGAL RESEARCH, no.82, pp.1-13, 2024 (SCI-Expanded)
- V. **Microfluidic Chip-Assisted Separation Process and Post-Chip Microalgae Cultivation for Carotenoid Production**
Karacaoğlu B., Koçer A. T., İnan B., Bütün İ., Mercimek R., Ghorbani M., Koşar A., Balkanlı D.
JOURNAL OF APPLIED PHYCOLOGY, vol.1, no.1, pp.1, 2024 (SCI-Expanded)
- VI. **Determination of combustion characteristics and kinetic parameters of *Ulva lactuca* and its biochar**
Koçer A., Balkanlı D.
BIOMASS CONVERSION AND BIOREFINERY, vol.14, pp.5913-5922, 2024 (SCI-Expanded)
- VII. **A new method for fully automated detection of algae blooms in Antarctica using Sentinel-2 satellite images**
Acar U., Yılmaz O. S., Balık Şanlı F., Ozcimen D.
Advances in Space Research, vol.73, no.6, pp.2955-2968, 2024 (SCI-Expanded)
- VIII. **Hydrothermal liquefaction process of *Ammi visnaga* and a new approach for recycling of the waste process water: cultivation of algae and fungi**
Durak H., Genel S., Demirer Durak E., Özçimen D., Kocer A. T.
BIOMASS CONVERSION AND BIOREFINERY, vol.14, no.5, pp.7149-7165, 2024 (SCI-Expanded)
- IX. **A Comprehensive Study on Extracellular Green Synthesis, Antibacterial Activity and Process Design of Metallic Nanoparticles from *Botryococcus braunii* Microalga**
Koçer A. T., Özçimen D.
JOM, vol.75, no.12, pp.5591-5605, 2023 (SCI-Expanded)
- X. **Pyrolysis of *Aloe vera* leaf wastes for biochar production: Kinetics and thermodynamics analysis**

- Koçer A. T., Erarslan A., Özçimen D.
Industrial Crops and Products, vol.204, 2023 (SCI-Expanded)
- XI. **Valorization of lignocellulosic wastes for low-cost and sustainable algal biodiesel production using biochar-based solid acid catalyst**
İnan B., Koçer A. T., Özçimen D.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.173, no.1, pp.1, 2023 (SCI-Expanded)
- XII. **Microfluidic systems as a novel approach for microalgal bioprocess**
Karacaoğlu B., İnan B., Balkanlı Özçimen D.
Biochemical Engineering Journal, vol.197, 2023 (SCI-Expanded)
- XIII. **Preparation of Bacillus pumilus loaded electrosprayed nanoparticles as a plant protective against postharvest fungal decay**
Vehapi M., İnan B., Kayacan-Cakmakoglu S., Sagdic O., Özçimen D.
EUROPEAN JOURNAL OF PLANT PATHOLOGY, vol.1, no.1, pp.1, 2023 (SCI-Expanded)
- XIV. **Effect of Process Parameters on Chitosan-mediated Microalgae Flocculation**
Akış S., İnan B., Özçimen D.
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.37, no.2, pp.97-105, 2023 (SCI-Expanded)
- XV. **Bioprospecting Antarctic microalgae as anticancer agent against PC-3 and AGS cell lines**
İnan B., Mutlu B., Karaca G. A., Koç R. Ç., Özçimen D.
Biochemical Engineering Journal, vol.195, 2023 (SCI-Expanded)
- XVI. **Optimization of Growth Conditions for the Production of Bacillus subtilis Using Central Composite Design and Its Antagonism Against Pathogenic Fungi**
Vehapi M., İnan B., Kayacan-Cakmakoglu S., Sagdic O., Özçimen D.
PROBIOTICS AND ANTIMICROBIAL PROTEINS, vol.15, no.3, pp.682-693, 2023 (SCI-Expanded)
- XVII. **A study of microalgae cultivation in hydrothermal carbonization process water: Nutrient recycling, characterization and process design**
Koçer A. T., İnan B., Özçimen D., Gökalp İ.
ENVIRONMENTAL TECHNOLOGY AND INNOVATION, vol.30, pp.1-10, 2023 (SCI-Expanded)
- XVIII. **Interactive effects of cold and temperate conditions on growth and biochemical content of Antarctic microalga Chlorella variabilis YTU.ANTARCTIC.001**
İnan B., Akin B., Ünlü İ. D., Koçer A. T., Çelik A., Vehapi M., Kaya Y., Özçimen D.
Journal of Applied Phycology, vol.35, no.2, pp.625-637, 2023 (SCI-Expanded)
- XIX. **Effect of metallic nanoparticles on microalgal growth and lipid accumulation for biodiesel production**
Oztay D., İnan B., Kocer A. T., Özçimen D.
BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING, vol.40, no.1, pp.103-114, 2023 (SCI-Expanded)
- XX. **Production of Bacillus subtilis soil isolate as biocontrol agent under bioreactor conditions**
Vehapi M., İnan B., KAYACAN ÇAKMAKOĞLU S., SAĞDIÇ O., ÖZÇİMEN D.
Archives of Microbiology, vol.205, no.1, 2023 (SCI-Expanded)
- XXI. **Experimental investigation on thermal behavior and thermo-kinetic study on pyrolysis of de-oiled microalgae**
Kocer A. T., ÖZÇİMEN D.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.19, no.12, pp.12279-12288, 2022 (SCI-Expanded)
- XXII. **Hydrothermal carbonization processes applied to wet organic waste streams**
Özçimen D., İnan B., Kocer A. T., Bostyn S., Gokalp I.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.12, pp.16109-16126, 2022 (SCI-Expanded)
- XXIII. **Screening plant growth effects of sheep slaughterhouse waste-derived soil amendments in greenhouse trials**
Yetilmezsoy K., Kıyan E., İlhan F., Özçimen D., Koçer A. T.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.318, pp.1-16, 2022 (SCI-Expanded)
- XXIV. **Investigation of antimicrobial and mechanical effects of functional nanoparticles in novel dental**

resin composites

Usul S. K., ASLAN A., Luleci H. B., ERGÜDEN B., Copoglu M. T., Oflaz H., SOYDAN A. M., ÖZÇİMEN D.
JOURNAL OF DENTISTRY, vol.123, 2022 (SCI-Expanded)

- XXV. **Monitoring microalgal growth of *Chlorella minutissima* with a new all solid-state contact nitrate selective sensor**
Balkanlı N. E., Işıldak İ., İnan B., Özer T., Özçimen D.
BIOTECHNOLOGY PROGRESS, vol.38, no.3, 2022 (SCI-Expanded)
- XXVI. **Eco-friendly synthesis of silver nanoparticles from macroalgae: optimization, characterization and antimicrobial activity**
Koçer A. T., Özçimen D.
BIOMASS CONVERSION AND BIOREFINERY, vol.1, pp.1-8, 2022 (SCI-Expanded)
- XXVII. **Selenium and clarithromycin loaded PLA-GO composite wound dressings by electrospinning method**
Ciftci F., Ayan S., Duygulu N., Yilmazer Y., Karavelioglu Z., Vehapi M., Koc R., Şengör M., Yilmazer H., Özçimen D., et al.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.71, no.12, pp.898-909, 2022 (SCI-Expanded)
- XXVIII. **Exopolysaccharides from microalgae: production, characterization, optimization and techno-economic assessment**
Kocer A. T., İnan B., Kaptan Usul S., Özçimen D., Yılmaz M. T., Işıldak İ.
BRAZILIAN JOURNAL OF MICROBIOLOGY, vol.52, no.4, pp.1779-1790, 2021 (SCI-Expanded)
- XXIX. **Preparation and characterization of microalgal oil loaded alginate/poly (vinyl alcohol) electrospayed nanoparticles**
İnan B., Özçimen D.
FOOD AND BIOPRODUCTS PROCESSING, vol.129, pp.105-114, 2021 (SCI-Expanded)
- XXX. **A novel approach to production of *Chlorella protothecoides* oil-loaded nanoparticles via electro spraying method: Modeling of critical parameters for particle sizing**
KARAKAŞ C. Y., Özçimen D.
Biotechnology and Applied Biochemistry, vol.68, no.3, pp.659-668, 2021 (SCI-Expanded)
- XXXI. **Microalgal Bioprocess Toward the Production of Microalgal Oil Loaded Bovine Serum Albumin Nanoparticles**
İnan B., Özçimen D.
PROTEIN JOURNAL, vol.40, no.3, pp.377-387, 2021 (SCI-Expanded)
- XXXII. **Antimicrobial and bacteriostatic activity of surfactants against *B.subtilis* for microbial cleaner formulation**
Vehapi M., Özçimen D.
ARCHIVES OF MICROBIOLOGY, vol.1, pp.1-8, 2021 (SCI-Expanded)
- XXXIII. **Cultivation of green microalgae by recovering aqueous nutrients in hydrothermal carbonization process water of biomass wastes**
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- VII. **POLAR MICROALGAE FOR BIOFUEL PRODUCTION IN BIOREFINERY PROCESS SIMULATION**
Aydemir T., Balkanlı D.
7. Ulusal Kutup Bilimleri Sempozyumu, İstanbul, Turkey, 4 - 05 December 2023, pp.1-2
- VIII. **Kutup Mikroalgelerinin Mikroakışkan Yöntemler ile Ayrıştırılması ve Zenginleştirilmesi**
Karacaoğlu B., İnan B., Koşar A., Balkanlı D.
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- IX. **Chlorella minutissima İLİMAN MİKROALGİNİN Chlorella variabilis YTU.ANTARCTIC.001 KUTUP MİKROALGI İLE KO-KÜLTÜR ÇALIŞMALARI**
Karacaoğlu B., İnan B., Koçer A. T., Balkanlı D.
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- X. **Comparison of Cultivation of Auxenochlorella pyrenoidosa Ozcimen.001 and Chlorella sorokiniana Egemen.002 Species Isolated from Antarctic and Arctic Regions**
Karaca G. A., Balkanlı D., İnan B.
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- XI. **Production of Antimicrobial Wound Dressing Material Containing Antarctic Microalgae Extract and Zinc Salt Additive**
Aydın O., Karasu D. O., Bozkurt, D., İnan B., Balkanlı D.
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- XII. **DEVELOPMENT OF MESOTHERAPY SOLUTIONS**
Kaya F., Balkanlı D.
5th International Young Researchers Student Congress, Antalya, Turkey, 1 - 03 June 2023, pp.1-2
- XIII. **Pyrolysis Characteristics and Kinetics of Microalgal Residues**
Koçer A. T., Karaca G. A., Karacaoğlu B., Özçimen D.
6th EurAsia Waste Management Symposium, İstanbul, Turkey, 24 - 26 October 2022
- XIV. **Evaluation of Avocado Peel Based Biochars As Adsorbent in Methyl Orange Adsorption**
ÜNLÜ İ. D., Koçer A. T., İNAN B., ÖZÇİMEN D.
6th Eurasia Waste Management Symposium, Turkey, 24 - 26 October 2022
- XV. **Microfluidic systems as a novel approach for microalgal bioprocess**
KARACAOĞLU B., ÖZÇİMEN D.
III. International Enzyme and Bioprocess Days, Tokat, Turkey, 9 - 11 September 2022
- XVI. **Characterization Of Hydrochar Production From Orange Peel And Sewage Sludge By Hydrothermal Processes**
Gökalp İ., Koçer A. T., Özçimen D.
16th International Combustion Symposium, Aydın, Turkey, 8 - 11 September 2022
- XVII. **Bacillus safensis production towards biocontrol applications**
VEHAPI M., İNAN B., KAYACAN S., KARACAOĞLU B., SAĞDIÇ O., ÖZÇİMEN D.
III. International Enzyme and Bioprocess Days, Tokat, Turkey, 9 - 11 September 2022
- XVIII. **Cultivation of Chlorella variabilis YTU.ANTARCTIC.001 and Evaluating Its Anticancer Activity against PC-3 and AGS Cell Lines**
İNAN B., MUTLU B., KARACA G. A., ÇAKIR KOÇ R., ÖZÇİMEN D.

- III. International Enzyme and Bioprocess Days EBDays 2022, Turkey, 9 - 11 September 2022
- XXIX. **Optimization of high value-added pigment production from *Chlorella variabilis* YTU.ANTARCTIC.001**
Koçer A. T., İNAN B., KARACA G. A., KARACAOĞLU B., ÖZÇİMEN D.
III. International Enzyme and BioprocessDays EBDays 2022, Turkey, 9 - 11 September 2022
- XX. **Analyzing of Biochar Production Potential and Pyrolytic Behavior of Aloe vera Solid Wastes**
Koçer A. T., Erarslan A., Özçimen D.
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- XXI. **Büyük ölçekli biyogaz tesisindeki biyolojik metan üretim potansiyelinin incelenmesi**
Sekmen B., Koçer A. T., Özçimen D.
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- XXII. **Kutup Mikroalgeleri: Medikal Kremler için Yeni Bir Biyo-etken Madde Kaynağı**
EYİER Ş. M., AKIN B., İNAN B., Koçer A. T., ÖZÇİMEN D.
5. Ulusal Kutup Çalıştayı, Turkey, 30 November 2021
- XXIII. **Azol fonksiyonel gözenekli ve içi boş silika nanokompozitlerin karakterizasyonu ve antifungal uygulamaları**
Balkanlı D., Usul S. K., Aslan A.
4th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2024), Ankara, Turkey, 24 - 26 November 2021, pp.1
- XXIV. **Determination of Antioxidant Activity and Phenolic Content of Antarctic Microalgae**
ÇELİK A., İNAN B., AKIN B., ÜNLÜ İ. D., Koçer A. T., VEHAPI M., ÖZÇİMEN D.
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Zora Tarhan S., Koçer A. T., Özçimen D., Gökalp İ.
5th Eurasia Waste Management Symposium, İstanbul, Turkey, 26 - 28 October 2020, pp.1
- XXVII. **Valorization of Various Lignocellulosic Wastes for Solid Acid Catalyst Production and Its Application in Biodiesel Production from Algal Oil**
İNAN B., Koçer A. T., ÖZÇİMEN D.
5th Eurasia Waste Management Symposium, Turkey, 26 - 28 October 2020
- XXVIII. **Treatment of Wastewater Generated by Wood-Based Dry Industry and Municipal Wastewater for Microalgae Cultivation**
VEHAPI M., İNAN B., ÖZÇİMEN D.
5th Eurasia Waste Management Symposium, Turkey, 26 October 2020
- XXIX. **Determination of combustion kinetic parameters of microalgal wastes**
Koçer A. T., Özçimen D.
5th Eurasia Waste Management Symposium, İstanbul, Turkey, 26 - 28 October 2020, pp.1
- XXX. **Production of iron oxide nanoparticles from *Ulva lactuca* with green synthesis for use in dye adsorption**
Koçer A. T., İNAN B., ÖZÇİMEN D.
5th Eurasia Waste Management Symposium, Turkey, 26 - 28 October 2020
- XXXI. **Antarktika'dan İzole Edilen *Auxenochlorella pyrenoidosa* Mikroalginin Farklı Koşullar Altında Yetiştirilmesi ve Adaptasyonu**
ÇELİK A., İNAN B., Koçer A. T., VEHAPI M., KAYA Y., BAŞAR E., ÖZÇİMEN D.
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- XXXII. **Antarktik Mikroalg Bazlı-Antimikrobiyal Etkili-Biyoaktif Yara Örtüsü Malzemesi Üretimi**
ÇELİK A., Koçer A. T., İNAN B., VEHAPI M., ÖZÇİMEN D.

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VEHAPİ M., ÇELİK A., Koçer A. T., İNAN B., KAYA Y., ÖZÇİMEN D.
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- XXXIV. **Antartik Mikroalg Bazlı, Antimikrobiyal Etkili Biyoaktif Yara Örtüsü Malzemesi Üretimi**
Çelik A., Koçer A., İnan B., Vehapi M., Özçimen D.
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- XXXV. **Antarktika'dan İzole Edilen Chlorella variabilis Mikroalgi Kullanılarak Yeşil Sentezle Gümüş Nanopartikül Üretimi**
Koçer A., Özçimen D.
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- XXXVI. **Effect of fluid and mass transfer characteristics on microalgal bioprocess**
İNAN B., ÖZÇİMEN D.
II. International Enzyme and BioprocessDays EBDays 2020, Turkey, 1 - 03 September 2020
- XXXVII. **Prevention of foodborne infections with algal biotechnology**
Vehapi M., İnan B., Erarslan A., Özçimen D.
II. International Enzyme and BioprocessDays EBDays 2020, İstanbul, Turkey, 1 - 03 September 2020, pp.26
- XXXVIII. **Isolation and identification of some microorganism species collected from Horseshoe Island, Skua Lake, Antarctica and microalgae cultivation**
ÖZÇİMEN D., KAYA Y., AKSOY H. M., Koçer A. T., ÇELİK A., İNAN B., VEHAPİ M., ÖZSOY B.
The Scientific Committee on Antarctic Research (SCAR) 2020 Open Science Conference, Australia, 3 - 04 August 2020
- XXXIX. **Investigation of antibacterial and antifungal effects of C. variabilis isolated from Horseshoe Island, SkuaLake, Antarctica**
ÖZÇİMEN D., KAYA Y., AKSOY H. M., Koçer A. T., ÇELİK A., İNAN B., VEHAPİ M., ÖZSOY B.
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- XL. **Characterization of solid and aqueous phase products from hydrothermal carbonization of orange pomace**
ÖZÇİMEN D., Missaoui A., Bostyn S., Belandria V., Gökalp İ.
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- XLI. **Effect of Scaffold Design on Mechanical Properties in Bone Tissue Engineering**
Ekşi Z., Küçükay A., Özçimen D., Üstündağ C. B.
4th International Congress on 3D Printing Technologies and Digital Industry, Antalya, Turkey, 11 April 2019, pp.1
- XLII. **Fabrication of M. aeruginosa Oil Loaded Nanoparticles by Electrospraying**
B. İ., ÖZÇİMEN D.
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- XLIV. **Valorization of Orange Peel to Produce Solid, Liquid and Gaseous Biofuels**
Koçer A. T., B. İ., ÖZÇİMEN D.
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- XLV. **Measurement of the pH Change Caused by C. Vulgaris Microalgae in the Solar Bioreactor with pH ISE**
Erci V., Özçimen D.
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- XLVI. **Design and production of a lab-scale solar bioreactor**
Eerci V., Özçimen D., Işıldak İ.
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- XLVII. Measuring nitrate consumption by *C. vulgaris* using NO₃- ionselective electrode**
Erci V., Özçimen D.
The first International Congress on Advances in Bioscience and Biotechnology (ICABB), Sarajevo, Bosnia And Herzegovina, 25 - 29 October 2017, pp.100
- XLVIII. Denizel Organizmalardan Elde Edilen Bileşiklerin Farmasötik ve Nutrasötik Etkilerinin Araştırılması**
Karakas C. Y., ÖZÇİMEN D.
19. Ulusal Su Ürünleri Sempozyumu, Sinop, Turkey, 12 September 2017
- XLIX. Alglerin Balık Yemi Olarak Potansiyelinin Belirlenmesi**
B. İ., ÖZÇİMEN D.
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- L. Effect of Nanoparticles on Lipid Production of *C. minutissima***
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- LII. Optimization of Cultivation Conditions and Media Composition for High Lipid Productivity of *M. aeruginosa***
B. İ., ÖZÇİMEN D.
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Çinar S., Yılmaz M., ÖZÇİMEN D.
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- LIV. Chlorella Minutissima Mikroalginden Ekzopolisakkarit Üretimi**
KAPTAN USUL S., ÖZÇİMEN D., YILMAZ M. T., Koçer A. T., B. İ., İŞILDAK İ.
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- LV. Statistical Analysis of the Parameters Affecting the Amount of Bioactive Substances of *B. Braunii* Microalgae**
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108th AOCs Annual Meeting Expo, 30 April - 03 May 2017
- LVI. Relationship Investigation Between Lipid Accumulation and Nitrogen Consumption of *C. minutissima* Using Special Designed Nitrate Sensor**
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- LVIII. Gümüş ve Altın Nanopartiküllerin Antimikrobiyal Özelliklerinin Mikroalgal Ekzopolisakkaritlerle Geliştirilmesi**
Kaptan S., ÖZÇİMEN D.
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- LIX. TiO₂ ve Ag Nanopartiküllerin Mikroalgal Büyüme Kinetiği Üzerine Olan Etkilerinin Araştırılması**
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- LX. Çeşitli Algal Biyopolimerlerin Nanoteknolojik Ürün Olarak Kullanımının Araştırılması**
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- LXII. **Investigation of Biogas Production From Oil Extracted Chlorella Minutissima Microalgae**
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Sert B. S., ÖZÇİMEN D., B. İ., BALKANLI N. E.
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- LXV. **Enhanced biogas production from algal biomass digestion using different pre-treatment methods**
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- LXVI. **A Preliminary Study on Development of Nanostructured Lipid Carriers Loaded with Microalgal Oil**
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- LXVIII. **A Comparative Study on Biochar Production from Algal Species**
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- LXXIII. **Marine Microalgae Growth in Batch Culture Treating Municipal Wastewater**
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- LXXIV. **Biochemical Methane Production from Anaerobic Co Digestion of the Ulva Lactuca Macroalgae**
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- LXXV. **Usage of Microalgal Fatty Acids for Biopharmaceutical Drugs**
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- LXXVII. **Algal Biochar Production from Macroalgal Wastes**
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- LXXVIII. **Microalgal biodiesel production from *Chlorella vulgaris***
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- LXXIX. **Utilization of Macroalgal Biomass for Bioethanol Production by Performing Acid Pre-treatment**
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- LXXXIV. **High Yield Biodiesel Production from Heterotrophically Cultivated *Chlorella protothecoides***
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- XC. **Characterization of Microalgal Oils (*Chlorella vulgaris*, *Chlorella protothecoides* and *Nannochloropsis oculata*) for Biodiesel Production**
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- XCI. **Etkin Güneş Işığı Aktarımına Sahip Fotobiyoreaktör Tasarımı**
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XCv. Biogas Production Potential from Post-Extraction Algal Residue

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CI. Mikroalg Üretimi Ve Biyoyakıt Alanında Değerlendirilmesi

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CII. Biyochar Üretimi

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CIII. Enerji Bitkilerinden Biyoetanol Eldesi

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Bioprocess and Biosystems Engineering, SCI Journal, January 2008

Tasks In Event Organizations

Özçimen D., International Congress on Sciences and Engineering for Sustainability 2021 (Danışma Onur Kurulu), Scientific Congress, İstanbul, Turkey, Nisan 2021
Özçimen D., International Congress on Sciences and Engineering for Sustainability 2021 (Bilim Kurulu Üyesi), Scientific Congress, İstanbul, Turkey, Nisan 2021
Özçimen D., 4. Ulusal Kutup Bilimleri Çalıştayı (Bilim Kurulu Üyesi), Workshop Organization, Turkey, Ekim 2020
Özçimen D., II. International Eurasian Conference on Science, Engineering and Technology (Bilim Kurulu Üyesi), Scientific Congress, Gaziantep, Turkey, Ekim 2020

Özçimen D., II. International Enzyme and Bioprocess Days (Bilim Kurulu Üyesi), Scientific Congress, Kocaeli, Turkey, Eylül 2020

Özçimen D., 4th International Conference on Food and Biosystems Engineering, 4thFABE 2019 (Bilim Kurulu Üyesi), Scientific Congress, Greece, Haziran 2019

Özçimen D., International Conference on Biosciences & Medical Engineering, 2nd ICBME 2019 (Bilim Kurulu Üyesi), Scientific Congress, Indonesia, Nisan 2019

Özçimen D., I. International Eurasian Conference on Science, Engineering and Technology (Bilim Kurulu Üyesi), Scientific Congress, Ankara, Turkey, Kasım 2018

Özçimen D., VI. Biyomühendislik Öğrenci Kongresi (Bilim Kurulu Üyesi), Scientific Congress, İstanbul, Turkey, Nisan 2018

Özçimen D., Algal Enerji Teknolojileri Konferansı (Düzenleme Kurulu Başkanı), Scientific Congress, İstanbul, Turkey, Haziran 2015

Özçimen D., V. Biyomühendislik Günleri (Düzenleme Kurulu Üyesi), Scientific Congress, İstanbul, Turkey, Mayıs 2015

Özçimen D., BIO ENG'14 International Bioengineering Conference (Düzenleme Kurulu Üyesi), Scientific Congress, İstanbul, Turkey, Kasım 2014

Scientific Research / Working Group Memberships

Cost Action Ca20133: Cross-Border Transfer And Development Of Sustainable Resource Recovery Strategies Towards Zero Waste (Fullreco4us), Belçika, <https://www.cost.eu/actions/CA20133/>, 2022 - Continues

Cost Action Ca20127: Waste Biorefinery Technologies For Accelerating Sustainable Energy Processes (Wire), Belçika, <https://www.cost.eu/actions/CA20127/>, 2022 - Continues

Cost Action Ca18238: European Transdisciplinary Networking Platform For Marine Biotechnology (Ocean4biotech), Belçika, <https://www.cost.eu/actions/CA18238/>, 2022 - 2024

Enerji Teknolojileri Çalışma Grubu, Yıldız Technical University, Türkiye, ., 2017 - 2020

Metrics

Publication: 288

Citation (WoS): 1567

Citation (Scopus): 1810

H-Index (WoS): 19

H-Index (Scopus): 20

Congress and Symposium Activities

BIO Türkiye Uluslararası Biyoteknoloji Kongresi, Invited Speaker, Ankara, Turkey, 2021

BIO Türkiye-Uluslararası Biyoteknoloji Kongresi, Session Moderator, Ankara, Turkey, 2021

14.Ulusal Kimya Mühendisliği Kongresi, Invited Speaker, Konya, Turkey, 2021

Dünya Su Günü ve Kutuplar, Invited Speaker, İstanbul, Turkey, 2021

4. Ulusal Kutup Bilimleri Çalıştayı ve Birinci Kutup Şenliği, Invited Speaker, Kocaeli, Turkey, 2020

Nanoteknoloji Çalıştayı, Panelists, İstanbul, Turkey, 2017

Enerji Teknolojileri 5.Biltronik Yarışması ve 3. Ar-Ge Proje Pazarı, Moderator, İstanbul, Turkey, 2013

II. Yıldız Biyomühendislik Günleri, Enerji ve Çevre Oturumu, Session Moderator, İstanbul, Turkey, 2012

Enerji Paneli, İTÜ, Panelists, İstanbul, Turkey, 2001

Scholarships

Research Fellowship, ICARE-CNRS, Official Institutions of Foreign Countries, 2018 - 2018

Visiting Researcher Fellowship-French Embassy, Official Institutions of Foreign Countries, 2018 - 2018

Erasmus-Teaching Staff Mobility-University of Crete, European Commission, 2014 - 2014

Erasmus-Teaching Staff Mobility-Universitat de Barcelano, European Commission, 2013 - 2013

Erasmus-Teaching Staff Mobility-Universidade de Minho, European Commission, 2011 - 2011

Socrates Programme-Universiteit Gent, European Commission, 2006 - 2006

Awards

Balkanlı D., Türkiye'ye Güç Veren Kadınlar Ödülü, Aile Ve Sosyal Hizmetler Bakanlığı, March 2024

Özçimen D., Üstün Başarılı Genç Bilim İnsanı (TÜBA-GEBİP) Ödülü (Outstanding Young Scientist Award), Türkiye Bilimler Akademisi , December 2020

Özçimen D., 2017 Yılı Fikri ve Sınai Mülkiyet Hakkına Sahip Olan Üniversite Tüm Öğretim Elemanları Arasında İkincilik Ödülü, Yıldız Teknik Üniversitesi, January 2018