

# Prof. Didem ÖZÇİMEN

## Personal Information

**Office Phone:** [+90 212 383 4553](tel:+902123834553)

**Web:** <https://avesis.yildiz.edu.tr/ozcimen>

**Address:** ozcimen@yildiz.edu.tr

## International Researcher IDs

ScholarID: Wd0pjfoAAAAJ

ORCID: 0000-0003-2483-7617

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, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, 2016 - Continues

Yıldız Teknik Üniversitesi, Biyomühendislik, Biyomühendislik, 2013 - Continues  
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 -  
2022  
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

Özçimen D., Applications of Polar Algae in Cosmetics, Postgraduate, B.Akın(Student), Continues  
Özçimen D., Probiyotik içeren sert yüzey temizleyiciler, Doctorate, M.Vehapi(Student), Continues  
Özçimen D., Kutup Mikroalgi İçeren Medikal Krem Formülasyonlarının Geliştirilmesi, Postgraduate, Ş.M.Eyier(Student),  
Continues  
ÖZÇİMEN D., Laboratuvar Ölçekli Solar Biyoreaktör Tasarımı, Sistemde Etkin Mikroalg Üretiminin Sensörlerle Takibi ve  
Tarımsal Uygulamaları, Doctorate, V.E.(Student), Continues  
ÖZÇİMEN D., İlaç Taşınımında Kullanılmak Üzere Yeni Nesil Malzeme Üretimi, Doctorate, S.Kaptan(Student), Continues  
Özçimen D., Nanopartiküllerin alglerden yeşil sentezi ve doku mühendisliğinde kullanımı, Doctorate, A.Tevfik(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., Büyük Ölçekli Biyogaz Tesisindeki Biyometan Üretim Potansiyelinin ve Kinetiğinin İncelenmesi, Postgraduate,  
B.Sekmen(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., Investigation of Antarctic Microalga 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

ÖZÇİMEN 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

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

ÖZÇİMEN D., Chorella Minutissima Mikroalgından Biyoetanol Eldesi, Postgraduate, B.Şerbetçioğlu(Student), 2016

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

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

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

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

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

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

ÖZÇİMEN D., Mikro ve Makroalgelerin Biyochar Üretiminde Değerlendirilmesi, Postgraduate, B.Mutlu(Student), 2016

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

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

ÖZÇİMEN D., Bitkisel Atıklardan Karbonizasyon Yoluyla Farklı Kullanım Amaçlı Katı Materyallerin Üretimi, Postgraduate, C.Karakaş(Student), 2013

ÖZÇİMEN D., Fındık yağından ultrasonik yöntemle biyodizel eldesi (Eş Danışman), Postgraduate, C.Kesgin(Student), 2011

## Jury Memberships

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

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

Competition, BIOFUTURATHON, February, 2021

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

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

Doctorate, Doctorate, Yıldız Technical University, December, 2019

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, 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, Fatih Erci-Doktora Yeterlik Sınavı, Yıldız Teknik Üniversitesi, April, 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  
Post Graduate, Rıdvan Yıldırım-Yüksek Lisans Tez Savunma Sınavı, Yıldız Teknik Üniversitesi, August, 2014  
Post Graduate, Post Graduate, 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. **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)
- II. **Microfluidic systems as a novel approach for microalgal bioprocess**  
KARACAOĞLU B., İNAN B., Balkanlı Özçimen D.  
Biochemical Engineering Journal, vol.197, 2023 (SCI-Expanded)
- III. **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)
- IV. **Bioprospecting Antarctic microalgae as anticancer agent against PC-3 and AGS cell lines**  
İNAN B., Mutlu B., KARACA G. A., Koç R. Ç., ÖZÇİMEN D.  
Biochemical Engineering Journal, vol.195, 2023 (SCI-Expanded)
- V. **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)

- VI. **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)
- VII. **Interactive effects of cold and temperate conditions on growth and biochemical content of Antarctic microalga *Chlorella variabilis* YTU.ANTARCTIC.001**  
İnan B., Akın 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)
- VIII. **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)
- IX. **An experimental study on the combustion behaviours of orange peel-based solid biofuels**  
Koçer A. T., ÖZÇİMEN D., GÖKALP İ.  
Biomass Conversion and Biorefinery, 2023 (SCI-Expanded)
- X. **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)
- XI. **A Comprehensive Study on Extracellular Green Synthesis, Antibacterial Activity and Process Design of Metallic Nanoparticles from *Botryococcus braunii* Microalga**  
Koçer A. T., ÖZÇİMEN D.  
JOM, 2023 (SCI-Expanded)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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., ÖZÇİMEN D., Kocer A. T.  
BIOMASS CONVERSION AND BIOREFINERY, 2022 (SCI-Expanded)
- XVII. **Monitoring microalgal growth of *Chlorella minutissima* with a new all solid-state contact nitrate selective sensor**  
Balkanli N. E., Işıldak İ., İnan B., Özer T., Özçimen D.  
BIOTECHNOLOGY PROGRESS, vol.38, no.3, 2022 (SCI-Expanded)
- XVIII. **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)
- XXIX. **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., ÖZÇİMEN D., et al.  
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.71, no.12, pp.898-909, 2022 (SCI-Expanded)
- XX. **Exopolysaccharides from microalgae: production, characterization, optimization and techno-economic assessment**  
Kocer A. T., Inan 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)
- XXI. **Preparation and characterization of microalgal oil loaded alginate/poly (vinyl alcohol) electrosprayed nanoparticles**  
Inan B., Özçimen D.  
FOOD AND BIOPRODUCTS PROCESSING, vol.129, pp.105-114, 2021 (SCI-Expanded)
- XXII. **Microalgal Bioprocess Toward the Production of Microalgal Oil Loaded Bovine Serum Albumin Nanoparticles**  
Inan B., Özçimen D.  
PROTEIN JOURNAL, vol.40, no.3, pp.377-387, 2021 (SCI-Expanded)
- XXIII. **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)
- XXIV. **Cultivation of green microalgae by recovering aqueous nutrients in hydrothermal carbonization process water of biomass wastes**  
Zora Tarhan S., Koçer A., Özçimen D., Gökalp İ.  
JOURNAL OF WATER PROCESS ENGINEERING, pp.1-8, 2021 (SCI-Expanded)
- XXV. **Comparison of the Anticancer Effect of Microalgal Oils and Microalgal Oil Loaded Electrosprayed Nanoparticles against PC-3, SHSY-5Y and AGS Cell Lines**  
Inan B., Çakır Koç R., Özçimen D.  
Artificial Cells Nanomedicine and Biotechnology, vol.49, no.1, pp.381-389, 2021 (SCI-Expanded)
- XXVI. **Determination of combustion characteristics and kinetic parameters of Ulva lactuca and its biochar**  
Koçer A., Özçimen D.  
BIOMASS CONVERSION AND BIOREFINERY, pp.1-10, 2020 (SCI-Expanded)
- XXVII. **Removal of Anthraquinone Dye via Struvite: Equilibria, Kinetics, Thermodynamics, Fuzzy Logic Modeling**  
YETİLMEZSOY K., ÖZÇİMEN D., Kocer A. T., Bahramian M., KIYAN E., AKBİN H. M., GONCALOĞLU B. İ.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH, vol.14, no.5, pp.541-566, 2020 (SCI-Expanded)
- XXVIII. **Fabrication of Oregano-Olive Oil Loaded PVA/Chitosan Nanoparticles via Electro spraying Method**  
Vehapi M., Yılmaz A., Özçimen D.  
Journal Of Natural Fibers, vol.6, no.1, pp.1-15, 2020 (SCI-Expanded)
- XXIX. **A novel approach to production of Chlorella protothecoides oil loaded nanoparticles via electro spraying method: Modelling of critical parameters for particle sizing**  
Karakaş C. Y., Özçimen D.  
Biotechnology And Applied Biochemistry, vol.6, pp.1-7, 2020 (SCI-Expanded)
- XXX. **Investigation of the antifungal effects of algal extracts on apple-infecting fungi**  
Vehapi M., Kocer A. T., Yılmaz A., Özçimen D.  
ARCHIVES OF MICROBIOLOGY, vol.202, no.3, pp.455-471, 2020 (SCI-Expanded)
- XXXI. **Investigation of biochar production potential and pyrolysis kinetics characteristics of microalgal biomass**  
Kocer A. T., Mutlu B., Özçimen D.

- BIOMASS CONVERSION AND BIOREFINERY, vol.10, pp.85-94, 2020 (SCI-Expanded)
- XXXII. **A Novel Borate Ion Selective Electrode Based On Carbon Nanotube-Silver Borate**  
Bahar D. U., Topçu C., Özçimen D., Işıldak İ.  
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, vol.15, no.1, pp.899-914, 2020 (SCI-Expanded)
- XXXIII. **Utilization of struvite recovered from high-strength ammonium-containing simulated wastewater as slow-release fertilizer and fire-retardant barrier**  
Yetilmezsoy K., Koçak E., Akbin H. M., Özçimen D.  
ENVIRONMENTAL TECHNOLOGY, vol.41, no.2, pp.153-170, 2020 (SCI-Expanded)
- XXXIV. **In vitro cytotoxic activity of microalgal extracts loaded nano-micro particles produced via electrospraying and microemulsion methods**  
Karakas C. Y., Sahin H. T., İnan B., Özçimen D., Erginer Y.  
BIOTECHNOLOGY PROGRESS, vol.35, no.6, 2019 (SCI-Expanded)
- XXXV. **Optimization of pH induced flocculation of marine and freshwater microalgae via central composite design**  
Akış S., Özçimen D.  
BIOTECHNOLOGY PROGRESS, vol.35, 2019 (SCI-Expanded)
- XXXVI. **A Comparative Study of Bioprocess Performance for Improvement of Bioethanol Production from Macroalgae**  
İnan B., Özçimen D.  
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.33, no.1, pp.133-140, 2019 (SCI-Expanded)
- XXXVII. **Marine diatom isolation, identification and investigation of nutrient effects on the diatom growth**  
Cinar S., Özçimen D., Yılmaz M.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, pp.1144-1153, 2019 (SCI-Expanded)
- XXXVIII. **Antifungal Activities of Chlorella vulgaris and Chlorella minutissima Microalgae Cultivated in Bold Basal Medium, Wastewater and Extract Water Against Aspergillus niger and Fusarium oxysporum**  
Vehapi M., Yılmaz A., Özçimen D.  
Romanian Biotechnological Letters, pp.1, 2018 (SCI-Expanded)
- XXXIX. **Investigation of the biogas production potential from algal wastes**  
Koçer A. T., Özçimen D.  
WASTE MANAGEMENT & RESEARCH, vol.36, pp.1100-1105, 2018 (SCI-Expanded)
- XL. **Determination of shear rate for scale-up of B. braunii production**  
İnan B., Koçer A. T., Özçimen D.  
Journal Of Biotechnology, no.280, pp.43, 2018 (SCI-Expanded)
- XLI. **Investigation of antibacterial and antioxidant activities of various algae species**  
Vehapi M., Yılmaz A., Özçimen D.  
Journal Of Biotechnology, no.280, pp.80, 2018 (SCI-Expanded)
- XLII. **Effect of Chemical Pre-treatments on Bioethanol Production from Chlorella minutissima**  
Sert B. S., İnan B., Özçimen D.  
ACTA CHIMICA SLOVENICA, vol.65, no.1, pp.160-165, 2018 (SCI-Expanded)
- XLIII. **OPTIMIZATION OF BIODIESEL PRODUCTION FROM Chlorella protothecoides OIL VIA ULTRASOUND ASSISTED TRANSESTERIFICATION**  
Özçimen D., Gulyurt M. O., İnan B.  
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## Supported Projects

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- SAĞDIÇ O., ÖZÇİMEN D., KARASU S., ÜSTÜNDAĞ C. B., ÖZDEMİR O. K., ÖZTÜRK A. B., Project Supported by Higher Education Institutions, Ultrases ve Mikrodalga Destekli Kurutma Tekniklerinin Kiraz ve Vişne Meyvelerinin Kurutulmasında Alternatif Yöntem Olarak Kullanılması, 2022 - Continues
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- Özçimen D., Bozkurt K., Özdemir O., Tatlıpınar H., TUBITAK Project, Küresel Isınma ve İklim Değişikliği Kapsamında Canlı Bilimleri ve Atmosfer Bilimleri Arasındaki İlişkinin Antarktika Özelinde Kurulması: Horseshoe Adası Bölgesindeki Atmosferik Koşullar ile Algler Gibi Çevre Koşullarına Duyarlı Mikroorganizmalar Arasındaki İlişkinin Analizi ve Modellenmesi, 2022 - 2024
- Özçimen D., İnan B., Koçer A. T., Karaca G. A., Karacaoğlu B., TUBITAK Project, Uzay Koşullarında Antarktika ve Ilıman Mikroalg Yetiştiriciliğinin Karşılaştırmalı Bir Çalışması (ALGALSPACE), 2023 - 2023

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Özçimen D., İnan B., TUBITAK Project, Sedef hastalığı için mikroalg içerikli ilaç formülasyonu geliştirilmesi, 2022 - 2023

ÖZÇİMEN D., Akın B., Project Supported by Higher Education Institutions, Kutup Mikroalgi İçeren Medikal Şampuan Formülasyonunun Geliştirilmesi, 2021 - 2023

Özçimen D., BALIK ŞANLI F., TUBITAK Project, Antarktika'daki Alg Patlamalarının Uzaktan Algılama Verileri Kullanılarak Tespiti, Takibi ve Haritalandırılması Sonrasında Belirlenen Bölgelerdeki Nitrat ve Fosfat Miktarlarının Özel Tasarım Sensörler Kullanılarak Yerinde Eş Zamanlı Ölçümü ve Kutup Alg Patlamalarında Baskın Türlerin Tespiti, 2021 - 2023

ÖZÇİMEN D., KOÇER A. T., VEHAPI M., İNAN B., KAYA Y., Project Supported by Higher Education Institutions, Ekstremofilik koşullarda yetişen mikroalglerden endüstride kullanılmak üzere katma değeri yüksek pigment üretimi, 2021 - 2023

TÜRKER M., İNAN B., KAYA Y., ÖZÇİMEN D., Project Supported by Higher Education Institutions, Ekstrem koşullarda yaşayan mikrobiyal çeşitliliğin araştırılması, 2021 - 2023

Özçimen D., TÜBA Project, Ulusal Antarktika Bilim Seferi Sonrası İzole Edilip Tanımlanan Kutup Alglerinin Antikanserojen Etkilerinin Araştırılması, 2020 - 2023

ÖZÇİMEN D., Koçer A. T., Project Supported by Higher Education Institutions, ALGLERDEN YEŞİL SENTEZ İLE METALİK NANOPARTİKÜLLERİN ÜRETİM OPTİMİZASYONU VE BU NANOPARTİKÜLLERİN ANTİBAKTERİYAL ETKİNLİKLERİNİN İNCELENMESİ, 2019 - 2023

Özçimen D., Gökalp İ., TUBITAK Project, Müsilaj Oluşmasını Kaynağında Önlemek İçin Bütünsel Yaklaşım, 2021 - 2022

Özçimen D., TUBITAK Project, Antarktika Bölgesi Mikroalglerinden Elde Edilen Biyoaktif Bileşenlerce Zengin Mikroalg Yağ Yüklü Nanopartiküllerin Üretimi ve Nöroprotektif Etkilerinin Araştırılması, 2020 - 2022

İşıldak İ., Özçimen D., Yıldırım R., Niğde M., Özer T., Ağır İ., Çakır Koç R., TAGEM Tarımsal Araştırmalar ve Politikalar Genel Müdürlüğü Projesi, Tarımsal Uygulamalarda Makro Besin Elementleri Okuma Sistemi, 2019 - 2022

Özçimen D., Kimya H., TUBITAK Project, Probiyotik içeren sert yüzey temizleyiciler, 2019 - 2022

ÖZÇİMEN D., ÇELEBİ U. B., SARI ERKAN H., BOZKURT K., BİLGİLİ M. S., AYAT AYDOĞAN B., CİVELEK YÖRÜKLÜ H., DEMİR Ö., VARDAR N., Project Supported by Higher Education Institutions, Marmara Denizinde Ortaya Çıkan Müsilaj İçeriğinin Örneklenmesi Karakterizasyonu ve Tanımlanması ile Geniş Perspektifli Çözüm Üretmek İçin Üniversite Araştırma Altyapısının Değerlendirilmesi, 2021 - 2021

Özçimen D., Nükyen B., TUBITAK Project, Chlorella sp. mikroalginin B. subtilis üretimi için substrat olarak kullanılabilirliğinin araştırılması, 2021 - 2021

Özçimen D., Vapur N., TUBITAK Project, Alg-Nişasta Yeni Nesil Hibrit Ambalaj Malzemesi Üretimi, 2019 - 2019

Özçimen D., Bölükbaşı İ., TUBITAK Project, Mikroalglerden yeşil sentezle nanopartikül üretimi ve biyomedikal uygulamalarda kullanımı, 2018 - 2019

ÖZÇİMEN D., İnan B., Project Supported by Higher Education Institutions, Mikroalg Biyoproses Optimizasyonu, Mikroalg Ekstrakt Yüklü Nanopartiküllerin Üretimi ve Antikanser Etkilerinin Araştırılması, 2017 - 2019

ÖZÇİMEN D., Öztay D., Koçer A. T., İnan B., Balkanlı N. E., Project Supported by Higher Education Institutions, NANOPARTİKÜL YAPILARIN MİKROALG BÜYÜME KİNETİĞİ ÜZERİNE OLAN ETKİLERİNİN İNCELENMESİ, 2017 - 2019

ÖZÇİMEN D., İnan B., Karakaş C. Y., Balkanlı N. E., Project Supported by Higher Education Institutions, İlaç Taşınım Sistemlerinde Kullanılmak Üzere Mikroalg Biyoaktif Taşıyan Nanopartiküllerin Geliştirilmesi, 2017 - 2019

Özçimen D., Project Supported by Public Organizations in Other Countries, Hydrothermal carbonization treatment of wet wastes- France, 2018 - 2018

Özçimen D., Uysal S., TUBITAK Project, Alfa-Amilaz, Pullulanaz ve Glikoamilaz Gıda Enzimlerinin Modifiye Mikroorganizmalarda Üretimi İçin Biyoteknolojik Araçların Oluşturulması ve Pilot Ölçekte Üretimleri, 2015 - 2018

İşıldak İ., Özçimen D., Yılmaz M. T., TAGEM Tarımsal Araştırmalar ve Politikalar Genel Müdürlüğü Projesi, Mikroalg Ekzopolisakaritlerin Sütü Tatlılar Endüstrisinde Kullanımı ve Biyoaktif Reolojik ve Teknolojik Özelliklerinin Belirlenmesi, 2015 - 2018

Derman S., Özçimen D., Öcal Z., TUBITAK Project, Yıldız Teknik Üniversitesi Ar-Ge Strateji Belgesi (Biyomalzemeler), 2015 - 2018

ÖZÇİMEN D., Project Supported by Higher Education Institutions, Makro ve Mikroalglerin Antimikrobiyal ve Antioksidan Etkisinin İncelenmesi, 2016 - 2017

ÖZÇİMEN D., tevfik Koçer A., Project Supported by Higher Education Institutions, Alglerden Biyogaz Üretim

Potansiyelinin Araştırılması, 2016 - 2017

ÖZÇİMEN D., Project Supported by Higher Education Institutions, Mikroalg Üretimi ve Biyoetanol Eldesinde Değerlendirilmesi, 2015 - 2016

ÖZÇİMEN D., Project Supported by Higher Education Institutions, Biyolojik Atıksu Arıtma Çamurları ve Algler Gibi Farklı Hammaddelerden Adsorbent Üretimi, 2014 - 2016

ÖZÇİMEN D., Project Supported by Higher Education Institutions, Mikroalg Üretimi Ve Biyodizel Eldesinde Değerlendirilmesi, 2013 - 2016

Bilgili M. S., Özçimen D., TUBITAK Project, Biyoreaktör Depo Sahalarında Nanomalzemelerin Davranışları ve Atıkların Ayırma Prosesleri Üzerindeki Etkilerinin Araştırılması, 2013 - 2016

Özçimen D., Bilgili M. S., Yıldırım R., Işıldak İ., Niğde M., Development Agency, Farklı Atık Su Kaynakları Kullanılarak Yeni ve Etkin Mikroalg Yetiştirme Sistemi Tasarımı ve Biyoyakıt Üretimi (İSTKA), 2014 - 2015

ÖZÇİMEN D., Project Supported by Higher Education Institutions, Mikroalg Yağından Biyodizel Üretimi, 2013 - 2015

ÖZÇİMEN D., Project Supported by Higher Education Institutions, Alglerin Biyoetanol Üretiminde Değerlendirilmesi, 2014 - 2014

ÖZÇİMEN D., Project Supported by Higher Education Institutions, Bitkisel Atıklardan Karbonizasyon Yoluyla Farklı Kullanım Amaçlı Katı Materyallerin Üretimi, 2013 - 2013

ÖZÇİMEN D., Project Supported by Higher Education Institutions, Hidroponik Topraksız Tarım Sistemleri İçin Yeni Bir Yaklaşımla Katı Ortam Bitki Yetiştirme Materyallerinin Geliştirilmesi, 2011 - 2013

ÖZÇİMEN D., Project Supported by Higher Education Institutions, Fındık Yağından Yeni Bir Yöntemle Metil Ester Eldesi, 2011 - 2012

ÖZÇİMEN D., Other International Funding Programs, Çeşitli Bitkisel Atıkların Pirolyzi, 2004 - 2007

ÖZÇİMEN D., Other International Funding Programs, Çeşitli Biyokütle Kaynaklarının Termal Davranışının İncelenmesi, 2004 - 2006

ÖZÇİMEN D., Other International Funding Programs, Kolza Küspesinin Sabit Yatak Pirolyzi, 2000 - 2001

## Patent

ÖZÇİMEN D., İNAN B., Solar Biyoreaktör, Patent, CHAPTER C Chemistry; Metallurgy, Standard Registration, 2017

## Activities in Scientific Journals

The Open Microalgae Biotechnology, Committee Member, 2019 - Continues

International Journal of Life Sciences and Biotechnology, Advisory Committee Member, 2019 - Continues

Journal of Chemical Engineering Research Updates, Assistant Editor/Section Editor, 2018 - Continues

Environmental Research and Technology, Committee Member, 2015 - Continues

Journal of Chemical Engineering Research Updates, Committee Member, 2015 - Continues

## Scientific Refereeing

Environmental Engineering and Management Journal, SCI Journal, Continues

Desalination, SCI Journal, Continues

Journal of the Taiwan Institute of Chemical Engineers, SCI Journal, Continues

International Journal of Industrial Chemistry, SCI Journal, Continues

Colloids and Surfaces Biointerfaces, SCI Journal, Continues

Chemistry and Ecology, SCI Journal, Continues

Fuel Processing Technology, SCI Journal, Continues

Separation Science and Technology, SCI Journal, Continues

Journal of Hazardous Materials, SCI Journal, Continues

Chemical Engineering Communications, SCI Journal, Continues  
African Journal of Biotechnology, SCI Journal, Continues  
Asia-Pacific Journal of Chemical Engineering, SCI Journal, Continues  
Chemosphere, SCI Journal, Continues  
British Biotechnology Journal, SCI Journal, Continues  
Biofuels, Bioproducts & Biorefining , SCI Journal, Continues  
BioEnergy Research, SCI Journal, Continues  
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Journal of the American Oil Chemists' Society, SCI Journal, Continues  
TUBITAK Project, 1002 - Quick Support Program, Yildiz Technical University, Turkey, July 2020  
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TUBITAK Project, 1002 - Quick Support Program, Yildiz Technical University, Turkey, April 2020  
Project Supported by Higher Education Institutions, BAP Research Project, Selcuk University, Turkey, October 2019  
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Energy Conversion and Management, SCI Journal, December 2018  
Chemical and Biochemical Engineering, SCI Journal, November 2018  
Journal of Cleaner Production, SCI Journal, September 2018  
Türk Kimya Dergisi, SCI Journal, August 2018  
Gazi Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, SCI Journal, May 2018  
INTERNATIONAL ADVANCED RESEARCHES and ENGINEERING JOURNAL, Other Indexed Journal, April 2018  
Journal of Applied Phycology, SCI Journal, April 2018  
Renewable Energy, SCI Journal, April 2018  
Energy Sources: Part A, SCI Journal, April 2018  
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Mikroalgae, Turkey, January 2018  
Süleyman Demirel University Journal of Natural and Applied Sciences, Other Indexed Journal, October 2017  
Project Supported by Higher Education Institutions, BAP Research Project, Selcuk University, Turkey, October 2017  
Applied Energy, SCI Journal, May 2017  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Yildiz Technical University, Turkey, May 2017  
Project Supported by Higher Education Institutions, BAP Research Project, Istanbul Technical University, Turkey, May 2017  
Waste and Biomass Valorization, SCI Journal, April 2017  
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TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Yildiz Technical University, Turkey, April 2017  
Gazi Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, SCI Journal, February 2017  
International Journal of Food Properties, SCI Journal, January 2017  
Chemical Engineering Communications, SCI Journal, November 2016

Technopark, YTÜ Teknopark, Turkey, November 2016  
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Project Supported by Higher Education Institutions, BAP Research Project, Selcuk University, Turkey, May 2016  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Yildiz Technical University, Turkey, January 2016  
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Technopark, YTÜ Teknopark, Turkey, March 2012  
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

Enerji Teknolojileri Çalışma Grubu, YILDIZ TEKNİK ÜNİVERSİTESİ, Türkiye, , 2017 - Continues

## Metrics



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## 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

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