Assoc. Prof. İREM DENİZ CAN

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Education

Doctorate, Ege University, Turkey 2011 - 2017
Postgraduate, Ege University, Turkey 2008 - 2011
Undergraduate, Ege University, Turkey 2004 - 2008

Foreign Languages

English

Dissertations

Doctorate, Tavuk tüylerinden büyük ölçekte keratinaz üretimi ve ayırma saflaştırma işlemleri, Ege University, 2017
Postgraduate, Rekombinant E. coli KO11 ile biyoetanol üretimi ve ölçek büyütme, Ege University, 2011

Research Areas

Avesis Research Areas: Engineering and Technology
WoS Research Areas: Biotechnology & Applied Microbiology, Green & Sustainable Science & Technology, Natural Sciences General
Scopus Research Areas: Biotechnology

Academic Positions

Associate Professor, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Biyomühendislik, 2020 - Present
Assistant Professor, Manisa Celal Bayar University, Mühendislik Fakültesi, Bioengineering, 2018 - 2020
Research Assistant, Manisa Celal Bayar University, Mühendislik Fakültesi, Bioengineering, 2012 - 2018

Academic and Administrative Experience

Academic and Administrative Experience

Manisa Celal Bayar University, 2021 - Present
Manisa Celal Bayar University, 2022 - 2025
Manisa Celal Bayar University, 2020 - 2022

Courses

Undergraduate
Thermodynamics, Undergraduate, 2019-2020, 2018-2019
Bioreaction Engineering, Undergraduate, 2019-2020, 2018-2019
BİOPROCESS ENGİNEERİNG, Undergraduate, 2018-2019, 2017-2018
INDUSTRİAL BİOREACTORS AND SCALE UP, Undergraduate, 2018-2019, 2017-2018
HEAT TRANSFER, Undergraduate, 2018-2019, 2017-2018

Supervised Theses

DENİZ CAN İ., Lignin extraction from hazelnut shells, Postgraduate, Ö.GEZEN(Student), 2024
DENİZ CAN İ., Investigation of Fruit Waste Ingredients as a Source of Healing Material, Postgraduate, Ç.ÖZGENER(Student), 2024
DENİZ CAN İ., Polyhydroxyalkanoate Production from Raisin Waste using Recombinant Escherichia coli, Postgraduate, A.FİLİZFİDANOĞLU(Student), 2024

Articles

I. **Quantitative Synthesis of CO2 Fixation Rates and Indoor Air Pollutant Removal by Microalgae: A Systematic Review and Meta-Analysis**
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II. **Optimization of poly (3-hydroxybutyrate) production by recombinant Escherichia coli using an experimental screening design**
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III. **Advancing building energy simulations: Integrating photobioreactor façades for enhanced energy efficiency and comfort**
Yaman Y., DENİZ CAN İ., Köktürk G., EZAN M. A., TOKUÇ A.
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IV. **Innovative solutions for valorization of desalination brine**
Rotter A., Rinkevich B., DENİZ CAN İ., Reddy M. M., Girão M., Carvalho M. F., Gunde-Cimerman N., Gostinčar C., Cueto M., Díaz-Marrero A. R., et al.
Water Research X, vol.28, 2025 (SCI-Expanded, Scopus)

V. **Editorial: Valorization of biomass: towards the production of fine chemicals and materials**
Dávila-Rodríguez I., Erdocia X., DENİZ CAN İ.
Frontiers in Chemical Engineering, vol.7, 2025 (ESCI, Scopus)

VI. **Photobioreactor facade panels: enhancing comfort, reducing energy use, and capturing carbon in temperate continental climates**
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Systems Microbiology and Biomanufacturing, vol.5, no.1, pp.357-370, 2025 (Scopus)

VII. **Marine cosmetics and the blue bioeconomy: From sourcing to success stories**
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VIII. **Effect of Different Parameters on Enzymatic Hydrolysis of Hazelnut Shells**
Gezen Ö., DENİZ CAN İ.
Sakarya University Journal of Science, vol.28, no.5, pp.924-929, 2024 (Scopus, TRDizin)

IX. **Lignin Recovery Using Alkaline Pretreatment of Walnut Shells**
DENİZ CAN İ.
Chemical Engineering and Technology, vol.46, no.9, pp.1911-1914, 2023 (SCI-Expanded, Scopus)

X. **Surface Area of Graphene Governs Its Neurotoxicity**
TAŞDEMİR Ş., Morçimen Z. G., Doğan A. A., Görgün C., Şendemir A.
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XI. **Effect of an algae integrated water wall on energy consumption and CO2 emission**
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International Journal of Global Warming, vol.29, no.1-2, pp.121-138, 2023 (SCI-Expanded, Scopus)

XII. **Aligned with sustainable development goals: microwave extraction of astaxanthin from wet algae and selective cytotoxic effect of the extract on lung cancer cells**
Aslanbay Guler B., Saglam-Metiner P., DENİZ CAN İ., Demirel Z., Yesil-Celiktas O., İMAMOĞLU E.
Preparative Biochemistry and Biotechnology, vol.53, no.5, pp.565-571, 2023 (SCI-Expanded, Scopus)

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Turkish Journal of Agriculture and Forestry, vol.47, no.6, pp.941-947, 2023 (SCI-Expanded, Scopus)

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Journal of the Marine Biological Association of the United Kingdom, vol.102, no.3-4, pp.276-284, 2022 (SCI-Expanded, Scopus)

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Guler B. A., DENİZ CAN İ., Demirel Z., İMAMOĞLU E.
Aquatic Sciences and Engineering, vol.37, no.3, pp.137-141, 2022 (Scopus, TRDizin)

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Protein Journal, vol.40, no.3, pp.388-395, 2021 (SCI-Expanded, Scopus)

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XVIII. **A New Tool for Faster Construction of Marine Biotechnology Collaborative Networks**
Rotter A., Gaudêncio S. P., Klun K., Macher J., Thomas O. P., DENİZ CAN İ., Edwards C., Grigalionyte-Bembič E., Ljubešić Z., Robbens J., et al.
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Aslanbay Guler B., DENİZ CAN İ., Demirel Z., İMAMOĞLU E.

Asia-Pacific Journal of Chemical Engineering, vol.15, no.6, 2020 (SCI-Expanded, Scopus)

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Bioresource Technology, vol.310, 2020 (SCI-Expanded, Scopus)

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Aquatic Sciences and Engineering, vol.35, no.4, pp.110-118, 2020 (ESCI, Scopus, TRDizin)

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Aslanbay Guler B., DENİZ CAN İ., Demirel Z., İMAMOĞLU E.
Journal of Bioscience and Bioengineering, vol.129, no.1, pp.86-92, 2020 (SCI-Expanded, Scopus)

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DENİZ CAN İ., ZİHNİOĞLU F., Öncel S. S., Hames E. E., Vardar-Sukan F.
Biocatalysis and Biotransformation, vol.37, no.5, pp.377-387, 2019 (SCI-Expanded, Scopus)

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Aslanbay Guler B., DENİZ CAN İ., Demirel Z., Oncel S. S., İMAMOĞLU E.
Journal of Applied Phycology, vol.31, no.3, pp.1525-1533, 2019 (SCI-Expanded, Scopus)

XXX. **Enhanced microalgal lipid production in internally illuminated airlift photobioreactor**
DENİZ CAN İ., Demirel Z., İMAMOĞLU E., Dalay M. C.
Marine Technology Society Journal, vol.53, no.2, pp.38-45, 2019 (SCI-Expanded, Scopus)

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Aslanbay Guler B., DENİZ CAN İ., Demirel Z., Oncel S. S., İMAMOĞLU E.
Algal Research, vol.37, pp.195-204, 2019 (SCI-Expanded, Scopus)

XXXII. **Experimental design methods for bioengineering applications**
Gündoğdu T. K., DENİZ CAN İ., Çalişkan G., Şahin E. S., Azbar N.
Critical Reviews in Biotechnology, vol.36, no.2, pp.368-388, 2016 (SCI-Expanded, Scopus)

XXXIII. **Supercritical fluid extraction of phycocyanin and investigation of cytotoxicity on human lung cancer cells**
DENİZ CAN İ., Ozen M. O., Yesil-Celiktas O.
Journal of Supercritical Fluids, vol.108, pp.13-18, 2016 (SCI-Expanded, Scopus)

XXXIV. **Optimization of physical parameters for phycobiliprotein extracted from Oscillatoria agardhii and Synechococcus nidulans Oscillatoria agardhii ve Synechococcus nidulans türlerinden fikobiliprotein ekstraksiyonu için fiziksel parametrelerin optimizasyonu**
DENİZ CAN İ., İMAMOĞLU E., Dalay M. C.
Turkish Journal of Biochemistry, vol.40, no.6, pp.481-491, 2015 (SCI-Expanded, Scopus, TRDizin)

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Energy Conversion and Management, vol.96, pp.124-130, 2015 (SCI-Expanded, Scopus)

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coli KO11 suşundan biyoetanol üretimi için ölçek büyütme parametrelerinin değerlendirilmesi
DENİZ CAN İ., İMAMOĞLU E., Sukan F. V.
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Books

I. **Algal Bioremediation: Sustainable Solutions, Challenges, and Future Prospects**
Kumar L., Mohanty K., DENİZ CAN İ., Khan F., Hasija Y.
Springer Nature, 2026

II. **Scaling up the Production of Microalgal Pigments for Commercial Applications**
MUTAF KILIÇ T., İNAM A., Fidanoğlu A. F., DENİZ CAN İ.
in: Pigments from Microalgae Handbook— Volume IIBioprocess Engineering, Smart Extraction Technologies, Omics Tools, and Sustainability-Driven Innovations, Springer, pp.21-45, 2026

III. **Scaling up the Production of Microalgal Pigments for Commercial Applications**
MUTAF KILIÇ T., İNAM A., FİLİZFİDANOĞLU A., DENİZ CAN İ.
in: Pigments from Microalgae Handbook, Deprá Mariany Costa, Jacob-Lopes Eduardo, Queiroz Maria Isabel, Zepka Leila Queiroz, Editor, Springer, Cham, pp.21-45, 2026

IV. **Algal Bioplastics**
Alyürük G., Esen E. T., TAŞDEMİR Ş., DENİZ CAN İ.
in: Algae-Derived Biochemicals of Industrial Importance, Anand Raksha, Bharadvaja Navneeta, Kumar D., Kumar Lakhan, Editor, Springer, pp.153-162, 2025

V. **Algae in Biomedicine**
İNAM A., ÖNCÜ ÖNER T., DENİZ CAN İ.
in: Cell Biology and Translational Medicine-Advances in Experimental Medicine and Biology, Kursad Turksen, Editor, Springer, pp.147-163, 2024

VI. **Algae in Biomedicine**
İNAM A., ÖNCÜ ÖNER T., DENİZ CAN İ.
in: Advances in Experimental Medicine and Biology - Cell Biology and Translational Medicine: Stem Cell Driven Approaches in Regeneration and Repair, TURKSEN KURSAD, Editor, Springer Nature, pp.147-163, 2024

VII. **Algae in Biomedicine**
İNAM A., ÖNCÜ ÖNER T., DENİZ CAN İ.
in: Cell Biology and Translational Medicine: Stem cell driven approaches in regeneration and repair, Turksen Kursad, Editor, Springer Nature, pp.147-164, 2024

VIII. **Introduction to bioenergy; current status, merits & demerits**
İNAM A., DENİZ CAN İ.
in: Bioenergy Engineering, Krushna Prasad Shadangi, Kaustubha Mohanty, Anjani Ravi Kiran Gollakota, Prakash Kumar Sarangi, İrem Deniz, Editor, Elsevier, pp.1-15, 2023

IX. **Life cycle assessment of biofuels**
MUTAF KILIÇ T., İNAM A., DENİZ CAN İ.
in: Bioenergy Engineering: Fundamentals, Methods, Modelling, and Applications, Elsevier, pp.535-549, 2023

X. **Life cycle assessment of biofuels**
MUTAF KILIÇ T., İNAM A., DENİZ CAN İ.
in: Bioenergy Engineering: Fundamentals, Methods, Modelling, and Applications, Elsevier, pp.535-549, 2023

XI. **Life cycle assessment of biofuels**
MUTAF KILIÇ T., İNAM A., DENİZ CAN İ.
in: Bioenergy Engineering, Krushna Prasad Shadangi, Kaustubha Mohanty, Anjani Ravi Kiran Gollakota, Prakash Kumar Sarangi, İrem Deniz, Editor, Elsevier, pp.535-549, 2023

XII. **Sustainable biorefineries for circular bioeconomy**
İNAM A., MUTAF KILIÇ T., DENİZ CAN İ.
in: BIOMASS, BIOFUELS, BIOCHEMICALS: Circular Bioeconomy: Technologies for Biofuels and Biochemicals, SUNITA VARJANI, ASHOK PANDEY, THALLADA BHASKAR, S. VENKATA MOHAN, DANIEL C.W. TSANG, Editor, Elsevier, pp.3-28, 2022

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in: Biomass, Biofuels, Biochemicals: Circular Bioeconomy: Technologies for Biofuels and Biochemicals, Sunita Varjani, Ashok Pandey, Thallada Bhaskar, S.Venkata Mohan, Daniel C.W. Tsang, Editor, Elsevier, Amsterdam, pp.3-28, 2022

XIV. **Volumetric Mass Transfer Coefficient Measurement in a Stirred Tank Reactor**
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in: Biomass, Biofuels, Biochemicals: Circular Bioeconomy: Technologies for Biofuels and Biochemicals, Sunita Varjani, Ashok Pandey, Thallada Bhaskar, S.Venkata Mohan, Daniel C.W. Tsang, Editor, Elsevier, Amsterdam, pp.3-28, 2022

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in: Innovative Food Processing Technologies: A Comprehensive Review, Sindhu Raveendran, Editor, Elsevier, pp.191-215, 2021

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XXV. **Trends in Red Biotechnology: Microalgae for Pharmaceutical Applications**
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Papers Presented at Peer-Reviewed Scientific Conferences

I. **Energy Use and Lighting of Algal Green Buildings**
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8th International Conference on Energy, Environment and Materials Science, EEMS 2024, Singapore, Singapore, 7 - 09 June 2024, vol.561, (Full Text)

II. **Comparison of different pretreatments on the enzymatic hydrolysis and lignin recovery of walnut shell**
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III. **Lignin Recovery of a Lignocellulosic Biomass Waste**
gezen o., DENİZ CAN İ.
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IV. **Hydrolysis and lignin recovery of nutshell**
gezen o., filizfidanoğlu a., DENİZ CAN İ.
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V. **Fotobiyoreaktör Cephelerin Isıl ve Görsel Performansa Etkileri**
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VI. **Energy Efficient Buildings with Algae**
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VII. **August 8-12, 2021, Development and validation of a dynamic thermal model for a water wall integrated indoor, Oral, T**
Altunacar N., Şener İ., Yaman Y., Budakoglu B., Topkara E., Esmer A., Ezan M. A., TOKUÇ A., KÖKTÜRK G. G., DENİZ CAN İ.
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VIII. **Optimization of energy and daylighting metrics for algae integrated facade systems**
Yaman Y., Budakoglu B., Altunacar N., Şener İ., KÖKTÜRK G. G., DENİZ CAN İ., Ezan M. A., TOKUÇ A.
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IX. **Bioproducts Derived From Lignocellulosic Biomass**
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X. **Deniz I., September 1-3, 2020, Microbial Protease Production for Decomposing of Insoluble Proteins, Oral, II. International Enzyme & Bioprocess Days, Gebze, Turkey**
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XI. **A Numerical Study on Microalgae Production in Building Façades**
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XII. **MICROALGAL FATTY ACIDS AND THEIR PRODUCTION FOR SUSTAINABILITY**
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1st Ocean4Biotech Conference, Piran, Slovenia, 5 - 06 February 2020, pp.50, (Summary Text)

XIII. **COST Experiences**
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XIV. **Cıvık Mantarların Kentsel Tasarımda Kullanımı**
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XV. **APPLICATIONS of BIOLUMINESCENT MICROORGANISMS**
karaveli o., cicek c., DENİZ CAN İ.
II. INTERNATIONAL UNIVERSITY INDUSTRY COOPERATION,RD AND INNOVATION CONGRESS, 14 - 15 November 2018, (Full Text)

XVI. **Optimization of concentration and sand thickness for agar assisted sand hardening process by microbial biocalcification**
ARIÇ A., YILMAZSOY B. T., DENİZ CAN İ., KESKİN GÜNDOĞDU T.
Internatıonal Conferenceon Engıneerıng Technologıes (ICENTE 2018), Konya, Turkey, 26 - 28 October 2018, pp.38-40, (Full Text)

XVII. **Biodiesel Production From Microalgae**
DENİZ CAN İ.
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XVIII. **Biologically based network design with ants for route planning**
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XXI. **Mikroalgal Üretimlerde Entegre Prosesler ve Endüstriyel Tasarımlar**
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XXII. **Biodesign for Cryopreservation of Microalgae**
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XXIV. **PERVAPORATION OF BIOETHANOL PRODUCED FROM APPLE POMACE**
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Taşdemir Ş., İmamoğlu E., Ensari Y., Deniz Can İ., TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Biyoteknolojik Yaklaşımlar Kullanarak Polihidroksialkanoat Üretimi ve Kemik Doku Mühendisliğinde Kullanım Potansiyelinin Araştırılması (PHA4Bone), 2024 - 2027

Deniz Can İ., TÜBİTAK - AB COST Project, Yeşil Algal Rafineri (Green Algal Refinery), 2022 - 2025

Çöven F. O., Mutaf Kılıç T., İnam A., Türk A., Öncü Öner T., Deniz Can İ., Project Supported by Higher Education Institutions, BAP Other, Sürdürülebilir ve Yaşanabilir Bir Dünya İçin Öğrenci Atölyesi, 2022 - 2022

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Deniz Can İ., Yaşa R., TUBITAK Project, 4004 - Nature Education and Science Schools, Mimarlık/Mühendislik Eğitimi İçin Yenilikçi ve Yaratıcı Bir Yaklaşım: Biyobenzetim ve Biyotasarım, 2019 - 2020
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Patent

USLU M. E., DENİZ CAN İ., YÜKSEK MİKTARLARDA ELEKTRİK ÜRETİMİ İÇİN YENİ BİR ALG YAŞAM ALANI, Patent, CHAPTER H Electricity, Standard Registration
DENİZ CAN İ., Bir Bakteriyel Biyokalsifikasyon Yöntemi ve Bu Yöntemle Elde Edilen Yapi Malzemeleri, Patent, CHAPTER C Chemistry; Metallurgy, Standard Registration, 2023
DENİZ CAN İ., A Bacterial Biocalcification Method for Producing Construction Materials, Patent, CHAPTER C Chemistry; Metallurgy, Standard Registration, 2022

Activities in Scientific Journals

CHEMICAL ENGINEERING JOURNAL, Committee Member, 2023 - Present
BIOCHEMICAL ENGINEERING JOURNAL, Committee Member, 2017 - Present
Biotech Studies, Special Issue Editor, 2024 - 2025
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, Special Issue Editor, 2015 - 2015

Peer Reviews in Scientific Publications

Other journals, April 2025
Other journals, April 2025
Other journals, April 2025
BIOCHEMICAL ENGINEERING JOURNAL, Other journals, January 2017
ENERGY CONVERSION AND MANAGEMENT, Other journals, January 2016
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Scientific Project Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, June 2025

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, June 2025
TÜBİTAK - AB COST Project, May 2025
TUBITAK Project, 1501 - Industry R & D Projects Support Program, May 2025
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, October 2024
TUBITAK Project, 1501 - Industry R & D Projects Support Program, May 2024
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, April 2024
TUBITAK Project, 2214/A INTERNATIONAL PHD RESEARCH SCHOLARSHIP PROGRAM, April 2024
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, April 2024
TUBITAK Project, 2214/A INTERNATIONAL PHD RESEARCH SCHOLARSHIP PROGRAM, April 2024
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, April 2024
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, November 2023
TUBITAK Project, 1501 - Industry R & D Projects Support Program, June 2023
TUBITAK Project, 1501 - Industry R & D Projects Support Program, June 2023
TUBITAK Project, 1002 - Quick Support Program, May 2023
TUBITAK Project, 1501 - Industry R & D Projects Support Program, November 2022
TUBITAK Project, 1501 - Industry R & D Projects Support Program, October 2022
TUBITAK Project, 1501 - Industry R & D Projects Support Program, October 2021
TUBITAK Project, 1002 - Quick Support Program, June 2019

Scientific Consultations

SOCAR ARGE, Project Consultancy, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Biyomühendislik, Turkey, 2022 - 2025

Metrics

Publication: 98
Citation (WoS): 1200
Citation (Scopus): 1600
H-Index (WoS): 19
H-Index (Scopus): 19

Congress and Symposium Activities

5. International Enzyme and Bioprocess Days, Invited Speaker, İzmir, Turkey, 2024
Congress of Geneticists, Invited Speaker, Sarajevo, Bosnia And Herzegovina, 2023
3rd International Enzyme and Bioprocess Days, Invited Speaker, Tokat, Turkey, 2022

Invited Talks

International Conference on Biotech for Sustainable Bioresources and Bioeconomy (BSBB-2022), Conference, IBA (International Bioprocess Association, India, December 2022
International Forum on Industrial Bioprocessing – Xthe International Conference of the IBA,, Conference, International Bioprocess Association (IBA), China, October 2022
9th International Conference on Bioprocessing IBA-IFIBiop 2021, Conference, International Bioprocess Association (IBA), Mexico, September 2021

Artistic Activity

DENİZ CAN İ., İyi Tasarım İzmir 2 - Biyotasarım Atölyesi, October 2017
DENİZ CAN İ., EXPO2016, April 2016
DENİZ CAN İ., 1st Workshop on Biodesign at the Intersection of Creativity and Bioengineering/Etkinlikte 3 adet 3D model geliştirilmiştir., November 2015
DENİZ CAN İ., LCA2015-Yaşam Döngüsü Değerlendirmesi Çalıştayı, October 2015