



Assoc. Prof. Dr. Irem DENİZ

CONTACT INFORMATION

Address	Manisa Celal Bayar University, Faculty of Engineering, Bioengineering Department, No:216, Muradiye-Yunusemre, Manisa, 45119, Turkey
Tel	+90 (0236) 201 2459
E-mail	iremdenz@gmail.com
ORCID	https://orcid.org/0000-0002-1171-8259
Web of Science	Researcher ID: V-3326-2019
Mendeley	https://www.mendeley.com/profiles/irem-deniz/
Google Scholar	https://scholar.google.com.tr/citations?user=zd3YrKIAAAAJ&hl=tr&oi=ao
Researchgate	https://www.researchgate.net/profile/Irem_Deniz
Publons	https://publons.com/researcher/3022616/irem-deniz/

EDUCATION and ACADEMIC TITLE

Degree / Title	University	Department / Program	Years
BSc	Ege University, Turkey	Bioengineering	2004-2008
Master	Ege University, Turkey	Bioengineering	2008-2011
PhD	Ege University, Turkey	Bioengineering	2011-2017
Associate Prof. Dr.	Manisa Celal Bayar University, Turkey	Bioengineering	2020-

EXPERIENCE

Title	Institution	Position/Research Topics	Years
Assoc. Prof. Dr.	Manisa Celal Bayar University, Bioengineering Dept.	Bioprocess Engineering, Bioengineering	2020 -
Assist. Prof. Dr.	Manisa Celal Bayar University, Bioengineering Dept.	Bioprocess Engineering, Bioengineering	2018 - 2020
Dr.	Manisa Celal Bayar University, Bioengineering Dept.	Bioprocess Engineering, Bioengineering	2017 - 2018
Research Assistant	Ege University, Bioengineering Dept.	Bioprocess Engineering, Bioengineering	2012 - 2017

RESEARCH INTERESTS

1	Scale-up in bioengineering and bioprocess engineering
2	Separation and purification technologies for bioprocesses
3	Microbial fermentations and microalgal products
4	Biofuels, microbial enzymes
5	Agroindustrial and lignocellulosic biomass gasification

THESIS

PhD	Keratinase production from chicken feathers, scale-up and purification
Master	Bioethanol production from recombinant <i>E. coli</i> KO11 and scale-up

PUBLICATIONS (SCI & SCI-EXPANDED)

No	Paper Info	Citation(s)	
		WoS	Google Scholar
1	Deniz I. , Lignin Recovery Using Alkaline Pretreatment of Walnut Shells, Chemical Engineering Technology, 46(9), 1911–1914 (2023), DOI: 10.1002/ceat.202200586 (Q2, IF:2.215)		
2	Gezen O., Filizfidanoglu A., Ozgener C., Deniz I. , Lignin recovery from hazelnut shells, Turkish Journal of Agriculture and Forestry, 47(6), 941-947 (2023), DOI: 10.55730/1300-011X.3139 (Q3, IF: 2.9).		
3	Altunacar N., Ezan M.A., Yaman Y., Tokuc A., Budakoglu B., Köktürk G., Deniz I. , Effect of an Algae Integrated Water Wall on Energy Consumption and CO ₂ Emission, International Journal of Global Warming, 29(1-2): 121-138 (2023), DOI: 10.1504/IJGW.2023.128851. (Q2, IF:1.086)		1
4	Deniz I. , Demirel Z., Imamoglu E., Conk-Dalay M., Long-Term Storage of Microalgae: Determination of Optimum Cryopreservation Conditions, Journal of the Marine Biological Association of the United Kingdom, 1-9 (2022). DOI: 10.1017/S0025315422000479. (Q3, IF: 1.661)		
5	Aslanbay-Guler B., Saglam-Metiner P, Deniz I. , Demirel Z., Yesil-Celiktas O., Imamoglu E., Aligned with sustainable development goals: microwave extraction of astaxanthin from wet algae and selective cytotoxic effect of the extract on lung cancer cells, Preparative Biochemistry & Biotechnology, 53(5): 565-571 (2022). DOI: 10.1080/10826068.2022.2116455. (Q3, IF:2.162)		2
6	Rotter A., Gaudêncio S. P., Klun K., Macher J. N., Thomas O. P., Deniz I. , Edwards C., Grigalionyte-Bembič E., Ljubešić Z., Robbens J., Varese G.C., Vasquez M.I., A new tool for faster construction of marine biotechnology collaborative networks, Frontiers in Marine Science, 685164 (2021), DOI: 10.3389/fmars.2021.685164. (Q1, IF: 3.661)	4	7
7	Karaveli O., Deniz I. , Key Challenges of Microbial Degradation of Keratinous Wastes, Protein Journal, 40:361–366 (2021). DOI: 10.1007/s10930-021-09966-9. (Q2, IF: 1.317)	1	6
8	Deniz I. , Demir T., Oncel S.S., Hames E., Vardar-Sukan F., Effect of agitation and aeration on keratinase production in bioreactors using bioprocess engineering aspects, Protein Journal, 40:388–395 (2021). DOI: 10.1007/s10930-021-09978-5. (Q2, IF: 1.317)	2	3
9	Rotter A, Barbier M., Bertoni F., Bones A.M., Cancela L. M., Carlsson J., Carvalho M.F., Ceglowska M., Martorell J., Dalay M., Cueto M., Daillianis T., Deniz I. , et al., The essentials of marine biotechnology, Frontiers in Marine Science, 629629 (2021), DOI: 10.3389/fmars.2021.629629. (Q1, IF: 3.661)	53	82
10	Aslanbay B., Deniz I. , Demirel Z., Oncel S., Imamoglu E., Evaluation of scale-up methodologies and CFD simulation for fucoxanthin production in airlift photobioreactor, Asia-Pacific Journal of Chemical Engineering, 15(6): e2532 (2020), DOI: 10.1002/apj.2532. (Q2, IF: 1.06)	4	5
11	Deniz I. , Scaling-up of <i>Haematococcus pluvialis</i> production in stirred tank photobioreactor, Bioresource Technology, 310: 123434 (2020). DOI: 10.1016/j.biortech.2020.123434. (Q1, IF: 7.539)	15	22

12	Rotter A., Bacu A., Barbier M., Bertoni F., Bones A.M., Cancela M.L., Carlsson J., Carvalho M.F., Ceglowska M., Conk-Dalay M., Dailianis T., Deniz I. et al., A new network for the advancement of marine biotechnology in Europe and beyond, <i>Frontiers in Marine Science</i> , 7: 278 (2020). DOI: 10.3389/fmars.2020.00278. (Q1, IF: 3.661)	15	25
13	Barreca M., Spanò V., Montalbano A., Cueto M., Marrero A. D., Deniz I. et al., Marine anticancer agents: An overview with a particular focus on their chemical classes, <i>Marine Drugs</i> , 18(12): 619 (2020). DOI: 10.3390/md18120619. (Q2, IF: 4.379)	52	66
14	Aslanbay B., Deniz I. , Demirel Z., Oncel S., O., Imamoglu E., Computational fluid dynamics modelling of stirred tank photobioreactor for <i>Haematococcus pluvialis</i> production: Hydrodynamics and mixing conditions, <i>Algal Research</i> , 47: 101854 (2020). DOI: 10.1016/j.algal.2020.101854. (Q1, IF:4.008)	8	22
15	Aslanbay B., Deniz I. , Demirel Z., Yesil-Celiktas, O., Imamoglu E., A novel subcritical fucoxanthin extraction with a biorefinery approach, <i>Biochemical Engineering Journal</i> , 153: 107403 (2020). DOI: 10.1016/j.bej.2019.107403. (Q1, IF:3.475)	21	27
16	Aslanbay B., Deniz I. , Demirel Z., Imamoglu E., Computational Fluid Dynamics Simulation in Scaling-up of Airlift Photobioreactor, <i>Journal of Bioscience and Bioengineering</i> , 129: 1 (2020) 86-92. DOI: 10.1016/j.jbiosc.2019.06.010. (Q2, IF:2.24)	13	18
17	Deniz I. , Demirel Z., Imamoglu E., Conk-Dalay M., Enhanced Microalgal Lipid Production in Internally Illuminated Airlift Photobioreactor, <i>Marine Technology Society Journal</i> , 53-2 (2019) 38–45. DOI: 10.4031/MTSJ.53.2.4. (Q2, IF:1.07)	3	5
18	Deniz I. , Zihnioglu F., Oncel S., Hames E. E., Vardar-Sukan F., Production, purification and characterization of a proteolytic enzyme from <i>Streptomyces</i> sp. 2M21, <i>Biocatalysis and Biotransformation</i> , 37-5 (2019) 377–387. DOI: 10.1080/10242422.2019.1568415. (Q3, IF:1.863)	5	5
19	Aslanbay B., Deniz I. , Demirel Z., Oncel S., Imamoglu E., Transition from start-up to scale-up for fucoxanthin production in flat plate photobioreactor, <i>Journal of Applied Phycology</i> , 31-3 (2019) 1525–1533. DOI: 10.1007/s10811-018-1696-7. (Q1, IF:5.851)	19	26
20	Aslanbay B., Deniz I. , Demirel Z., Oncel S., Imamoglu E., Comparison of different photobioreactor configurations and empirical computational fluid dynamics simulation for fucoxanthin production, <i>Algal Research</i> 37 (2019) 195–204. DOI: 10.1016/j.algal.2018.11.019. (Q1, IF:4.008)	26	36
21	Aslanbay B., Deniz I. , Demirel Z., Oncel S., Imamoglu E., Evaluation of hydrodynamic parameters and rheological behaviours for <i>Haematococcus pluvialis</i> production in stirred tank photobioreactor, <i>Journal of Biotechnology</i> 256:S54 (2017). (Q1, IF:3.163)		
22	Deniz I. , Ozen M. O., Yesil-Celiktas O., Supercritical fluid extraction of phycocyanin and investigation of cytotoxicity on human lung cancer cells, <i>The Journal of Supercritical Fluids</i> 108 (2016) 13–18. DOI: 10.1016/j.supflu.2015.10.015. (Q1, IF:3.744)	42	70
23	Keskin-Gundogdu T., Deniz I. , Caliskan G., Sefa E., Azbar N., Experimental design methods for bioengineering applications, <i>Critical Reviews in Biotechnology</i> , 36-2 (2016), 368–388. DOI: 10.3109/07388551.2014.973014. (Q1, IF:8.108)	74	105

24	Deniz I. , Imamoglu E., Conk-Dalay M., Optimization of physical parameters for phycobiliprotein extracted from <i>Oscillatoria agardhii</i> and <i>Synechococcus nidulans</i> , Turkish Journal of Biochemistry, 40-6 (2015), 481–491. DOI: 10.1515/tjb-2015-0039. (Q4, IF:0.373)	1	1
25	Deniz I. , Imamoglu E., Vardar-Sukan F., Evaluation of scale-up parameters of bioethanol production from <i>Escherichia coli</i> KO11, Turkish Journal of Biochemistry, 40-1 (2015) 74-80. DOI: 10.5505/tjb.2015.33603. (Q4, IF:0.373)	8	12
26	Deniz I. , Vardar-Sukan F., Yuksel M., Saglam M., Ballice L., Yesil-Celiktas O., Hydrogen production from marine biomass by hydrothermal gasification, Energy Conversion and Management 96 (2015) 124-130. DOI: 10.1016/j.enconman.2015.02.048. (Q1, IF:7.181)	54	78
27	Deniz I. , Imamoglu E., Vardar-Sukan F., Aeration enhanced bioethanol production, Biochemical Engineering Journal 92 (2014) 41–46. DOI: 10.1016/j.bej.2014.05.011. (Q2, IF:3.475)	11	15

OTHER PUBLICATIONS

1	Yaman Y., Altunacar N., Tokuç A., Köktürk G., Deniz I., Ezan, M.A., Fotobiyoreaktör Cephelerin Isıl ve Görsel Performansa Etkileri, Eskişehir Technical University Journal of Science and Technology A- Applied Sciences and Engineering, 23: 68-75, (2022)
2	Aslanbay- Guler B., Deniz I. , Demirel Z., Imamoglu E., Evaluation of different scale-up strategies for <i>Haematococcus pluvialis</i> cultivation in airlift photobioreactor, Aquatic Sciences and Engineering (ULAKBIM, TR dizin, ESCI), ASE202211036078: 137-141 (2019). DOI: 10.26650/ASE202211036078.
3	Karaveli O., Deniz I. , Biodesigning of Culture Conditions for <i>Chlorella vulgaris</i> Using Response Surface Methodology, Aquatic Sciences and Engineering (ULAKBIM, TR dizin) 35(4) (2020): 110-118. DOI: 10.26650/ASE2020729502.
4	Deniz I. , Determination of growth conditions for <i>Chlorella vulgaris</i> , Marine Science and Technology Bulletin (ULAKBIM, TR dizin) 9, 2 (2020), 114-117. DOI: 10.33714/masteb.717126. (5 citations according to Google Scholar)
5	Arıç A. Deniz I. , Keskin T., New Experimental Approaches to Sand Hardening by Microbial Biocalcification, Bitlis Eren University Science and Engineering Journal (ULAKBIM, TR dizin), 9-1 (2020): 390-401. DOI: 10.17798/bitlisfen.570061.
6	Keskin T., Deniz I. , Aric A., Yilmazsoy B.T., Andic-Cakir O., Erdoğan A., Altun D., Tokuç A., Demirci B.F., Sendemir-Urkmez A., Köktürk G., Özkaban F., Development of Ecological Biodesign Products by Bacterial Biocalcification, European Journal of Engineering and Natural Sciences (ULAKBIM) 3-1 (2019) 17-25. (3 citations according to Google Scholar)
7	Demirel Z., Imamoglu E., Deniz I. , Conk-Dalay M., Optimization of Cryopreservation Process Using Response Surface Methodology for <i>Chlorella saccharophila</i> and <i>Chlorella zofingiensis</i> , Celal Bayar University Journal of Science (ULAKBIM, TR dizin) 14-4 (2018) 405-412. DOI: 10.18466/cbayarfbe.426444. (3 citations according to Google Scholar)
8	Deniz I. , Yesil-Celiktas O., Vardar-Sukan F., Hydrothermal Liquefaction of Marine Biomass: An Integrated Process, Academic Platform-Journal of Engineering and Science (ULAKBIM, TR dizin), 6-1 (2018) 36-39. DOI: 10.21541/apjes.320484. (2 citations according to Google Scholar)
9	Deniz I. , Keskin Gündoğdu T., Tokuç A., Şendemir Ürkmez A., Köktürk G., Andic Çakir O., Akyol Altun D., Final Declaration of the "1st Workshop on Biodesign at the Intersection of Creativity and Bioengineering", Dokuz Eylül University Engineering Faculty Science and Engineering Journal (ULAKBIM, TR dizin), 18(52) (2016) 7-14. DOI: 10.21205/deufmd.20165217540.

10	Deniz I. , Oncel S., Renewable Energy Scenarios as a Key for Sustainable Rural Area Applications in Turkey, Journal of Bioengineering & Biomedical Science (Google Scholar, Publons, EBSCO A-Z Index), 6:198 (2016) 1-8. DOI: 10.4172/2155-9538.1000198. (3 citations according to Google Scholar)
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EDITOR in BOOK(s) and JOURNAL(s)

No	Book Title	Editor(s)	Year	Publication
1	Bioenergy Engineering: Fundamentals, Methods, Modelling, and Applications (https://www.sciencedirect.com/book/9780323983631/bioenergy-engineering)	Krushna Prasad Shadangi, Prakash Kumar Sarangi, Kaustubha Mohanty, Irem Deniz , Anjani Ravi Kiran	2023	Elsevier
2	Properties and Applications of Alginates (https://www.intechopen.com/books/10670)	Irem Deniz , Esra Imamoglu, Tugba Keskin-Gundogdu	2022	InTechOpen
No	Journal Title	Editor(s)	Year	Publication
1	Biochemical Engineering Journal - Special Issue of III. International Enzyme and Bioprocess Days (SCI, Q2) (https://www.sciencedirect.com/journal/biochemical-engineering-journal/special-issue/10446W0KM1F)	Irem Deniz , Bilge Hilal Çadirci Efeli, Barış Binay	2023	Elsevier
2	Biochemical Engineering Journal (SCI, Q2) (https://www.sciencedirect.com/journal/biochemical-engineering-journal/about/editorial-board)	Irem Deniz (Editorial Board member)	2017-	Elsevier
3	Chemical Engineering Journal (SCI, Q2) (https://www.sciencedirect.com/journal/chemical-engineering-journal/about/editorial-board)	Irem Deniz (Early Career Editorial Board member)	2023-	Elsevier
4	Frontiers in Chemical Engineering – Research Topic Editor of Valorization of Biomass: Towards the Production of Fine Chemicals and Materials (ESCI, Q2) (https://www.frontiersin.org/research-topics/52226/valorization-of-biomass-towards-the-production-of-fine-chemicals-and-materials)	Izaskun Dávila, Victoria Rigual, Xabier Erdocia, Irem Deniz	2024	Frontiers

BOOK CHAPTERS (SCOPUS, WOS)

No	Paper Info	Citation WoS	
1	Deniz I. , Inam A., Chapter 1: Introduction to Bioenergy; Current status, merits and demerits. In: Bioenergy Engineering: Fundamentals, Methods, Modelling, and Applications, 1st Edition, Editors: Krushna Shadangi, Prakash Sarangi, Kaustubha Mohanty, Irem Deniz, Anjani Gollakota, Woodhead Publishing, 380pp 2023. ISBNs: 978032398363.		

2	Imamoglu E., Aslanbay-Guler B., Deniz I. , Ozmihci S., Chapter 10: Biological conversion technologies: enzyme hydrolysis, ethanol fermentation. In: Bioenergy Engineering: Fundamentals, Methods, Modelling, and Applications, 1st Edition, Editors: Krushna Shadangi, Prakash Sarangi, Kaustubha Mohanty, Irem Deniz, Anjani Gollakota, Woodhead Publishing, 380pp 2023. ISBN: 978032398363.		
3	Deniz I. , Mutaf T., Inam A., Chapter 25: Life cycle assessment of biofuels. In: Bioenergy Engineering: Fundamentals, Methods, Modelling, and Applications, 1st Edition, Editors: Krushna Shadangi, Prakash Sarangi, Kaustubha Mohanty, Irem Deniz, Anjani Gollakota, Woodhead Publishing, 380pp 2023. ISBNs: 978032398363.		
4	Inam A., Taymaz E.R., Uslu M.E., Binay B., Deniz I. , Chapter 2: Volumetric Mass Transfer Coefficient Measurement in a Stirred Tank Reactor. In: Turksen K. (eds) Bioreactors in Stem Cell Biology. Methods in Molecular Biology, vol 2436. Springer Publishing, Humana, New York, 2022, pp 17-25. ISBN: 978-1-0716-2017-5. DOI: 10.1007/7651_2021_415. (<i>Book Citation Index in Web of Science, BKCI</i>)		1
5	Inam A., Mutaf T., Deniz I. , Sustainable biorefineries for circular bioeconomy, In: Biomass, Biofuels, Biochemicals - Circular Bioeconomy: Technologies for Biofuels and Biochemicals, Editors: Sunita Varjani, Ashok Pandey, Thallada Bhaskar, S. Venkata Mohan, Daniel C.W. Tsang, Elsevier, 2022, pp 3-28, ISBN: 978-0-323-89855-3.		1
6	Taymaz E., Uslu M.E., Deniz I. , Chapter 1: Introduction to Biomass to Biofuels Technologies, In: Liquid Biofuels: Fundamentals, Characterization, and Applications, Editor: Dr. Krushna Prasad Shadangi, Wiley Publishing, 2021, pp 1-38. ISBN: 978-1-119-79198-0. DOI: 10.1002/9781119793038.ch1.	2	4
7	Sindhu R., Shiburaj S., Sabu A., ..., Deniz I. , ..., Pandey A., Enzyme Technology in Food Processing: Recent Developments and Future Prospects, In: Innovative Food Processing Technologies: A Comprehensive Review, Volume 3, Editor: Sindhu Raveendran, Elsevier, 2021, pp 191-215. ISBN: 978-0-12-815782-4. DOI: 10.1016/B978-0-12-815781-7.00016-0.	5	15
8	Deniz I. , Vaquero M.G., Imamoglu E., Chapter 18: Trends in Red Biotechnology: Microalgae for Pharmaceutical Applications (page 429-460), In: Microalgae-Based Biofuels and Bioproducts: From Feedstock Cultivation to End-Products, Editors: Raul Muñoz Cristina Gonzalez-Fernandez, WoodHead Publishing Ltd (An imprint of Elsevier), 2017, pp 429-460, ISBN: 978-0-08-101027-3. DOI: 10.1016/B978-0-08-101023-5.00018-2. (<i>Book Citation Index in Web of Science, BKCI</i>)	15	24
9	Deniz I. , Imamoglu E., Chapter 16: Innovations in Photobioreactors to Investigate Microalgal Production, In: Photobioreactors: Advancements, Applications and Research, Editor: Yui Fai Tsang, Nova Science Publisher Inc, 2017, pp 353-370, ISBN: 978-1-53612-354-8.		
10	Deniz I. , Keskin-Gundogdu T., Chapter 4: Biomimetic Design for A Bioengineered World, In: Interdisciplinary Expansions in Engineering and Design with the Power of Biomimicry, Editors: Gulden Kokturk and Tutku Didem Akyol Altun, InTech, 2018, pp 57-75, ISBN: 978-953-51-3936-2, DOI: 10.5772/intechopen.72912.	3	3
11	Deniz I. , Chapter 2: Production of Microbial Proteases for Food Industry, In: Green Bio-Processes: Enzymes in Industrial Food Processing, Part of the Energy, Environment, and Sustainability Book Series (ENENSU), Editors: Binod Parameswaran, Sunita Varjani, Sindhu Raveendran, Springer, Singapore, 2019, pp 9-14, ISBN: 978-981-13-3263-0, DOI: 10.1007/978-981-13-3263-0_2. (<i>Book Citation Index in Web of Science, BKCI</i>)	2	7

12	Deniz I. , Aslanbay-Guler B., Imamoglu E., Chapter 10: State of Art Strategies for Biodiesel Production: Bioengineering Approaches, In: Advances in Biofeedstocks and Biofuels: 3 rd Volume - Liquid Biofuel Production, Editors: Lalit Kumar Singh, Gaurav Chaudhary, Wiley, USA, 2019, pp 319-349, ISBN: 978-1-119-45987-3, DOI: 10.1002/9781119459866.ch10.	2	2
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PROJECTS

	Organization	Research Topic / Title	Position	Years
1	TUBITAK- 1001 - 121R100 (International project)	Yeşil Algal Rafineri (Green Algal Refinery)	Researcher	2022-2024
2	EUREKA-TUBITAK -1509-9220017 (International project)	BIOLINK: Fully circular cradle-to-grave biodegradable bio-based plastics production from agrifood by-products (Tarımsal Gıda Atıklarından Sürdürülebilir Biyoplastik Üretimi)	Academic Consultant (Director)	2022-2025
3	TUBITAK- 1002 - 222M314	Cephelerde Mikroalg Yetiştirilmesinde Mikroalg Türünün Bina ile Bütünleşme Potansiyeline Etkilerinin Araştırılması	Researcher	2023-2024
4	TUBITAK- 1001 - 218M850	Cephelerde Mikroalg Yetiştirilmesinin Bina ile Bütünleşme Potansiyelinin Araştırılması ve Farklı İklim Koşulları İçin Değerlendirilmesi	Researcher	2019-2023
5	TUBITAK- 2515 - 115M014 (International project)	Bioprocess Development for Microalgal Carotenoid Production	Researcher	2017-2018
6	TUBITAK- 1001 - 115M014	Mikroalgal Karotenoid Üretimi İçin Biyoproses Geliştirilmesi	Scholarship	2015-2017
7	TUBITAK- 1001 - 112M250	Tavuk Tüylerinden Büyük Ölçekte Keratinaz Üretimi	Scholarship	2012-2015
8	TUBITAK- 1512 - 2211068	Katı ve Gaz Atıklardan Değerli Biyoürün Üretimi	Researcher, Co-founder	2022-2024
9	TUBITAK- 1002 - 216M507	<i>Physarum polycephalum</i> Cıvık Mantarları Kullanılarak Yol İzlerinin Bulunması- İzmir Örneği	Researcher	2017-2018
10	COST CA18238 ACTION	European Transdisciplinary Networking Platform for Marine Biotechnology	MC Member / WG Leader	2019-2023
11	COST CA17128 ACTION	Establishment of a Pan-European Network on the Sustainable Valorisation of Lignin	MC Member	2018-2022
12	COST ES1408 ACTION	European Network for Algal-Bioproducs (EUALGAE)	Working Group Member	2015-2018
13	TUBITAK- 2209A	Biyolüminesans Özellikli <i>Pyrocystis lunula</i> 'nın Üretim Optimizasyonu	Supervisor	2018-2019
14	TUBITAK- 4007 - 118B791	Mersin Bilim Şenliği	Leader	2017-2018

15	TUBITAK-4007 - 121B158	Manisa Bilim Şenliği	Leader	2021-2022
16	TÜBİTAK- 4004 - 118B615	Dogaya Sor; En İyi O Bilir: Biyobenzetimden Biyotasarıma	Lecturer	2018
17	MCBU- Scientific Research Project 2018-114	Biyoreaktörlerde Mikroalgal Biyokütle Üretimi	Principal Investigator	2018-2020
18	MCBU- Scientific Research Project 2021-118	Manisa Celal Bayar Üniversitesi 4. Ulusal Üniversite Sanayi İşbirliği Ar-Ge ve İnovasyon Kongresi	Principal Investigator	2021-2022
19	MCBU- Scientific Research Project 2018-108	Sürdürülebilir ve Yaşanabilir Bir Dünya İçin Biyoekonomi Çalıştayı	Principal Investigator	2021-2022
20	Ege-BAP 13/Bil/020 Scientific Research Project	Tavuk Tüylerinden Büyük Ölçekte Keratinaz Üretimi	Researcher	2013-2015
21	Ege-BAP 19/Bil/011 Scientific Research Project	Bioethanol Production from Lignocellulosic Wastes	Researcher	2010-2011
21	Ege-BAP 16/MUH/051 Scientific Research	Bioprotocol Designing for Lutein Production	Researcher	2016-2018

PROCEEDINGS

International - Oral - Full Text

1	Altunacar N., I. Şener, Y. Yaman, B. Budakoğlu, E. Topkara, A. Esmer, M. A. Ezan, A. Tokuç, G. Köktürk, Deniz I. , August 8-12, 2021, Development and validation of a dynamic thermal model for a water wall integrated indoor, Oral, TUBA World Conference on Energy Sciences and Technology, Ankara, Turkey (Virtual).
2	Yaman Y., Tokuç A., Sener I., Altunacar N., Köktürk G., Deniz I. , Ezan M.A., March 26 - 28, 2021 Virtual Conference, Energy Efficient Buildings with Algae, Oral, 7th International Conference on Environment and Renewable Energy (ICERE2021), Qingdao, China. IOP Conference Series: Earth and Environmental Science, 2021, 798(1), 012001 (1 citations according to Google Scholar)
3	Yaman Y., Budakoglu B., Altunacar N., Sener I., Köktürk G., Deniz I. , Ezan M.A., Tokuç A., July 15 - 18, 2021, Virtual, Optimization of energy and daylighting metrics for algae integrated facade systems, Oral, 13th International Green Energy Conference (IGECXIII), Tianjin, China.
4	Kale I., Akyol-Altun D., Avcı-Özkaban F., Köktürk G., Tokuc A., Deniz I. , Şendimir-Ürkmez A., Andiç-Çakır O., April 23 - 24, 2019, Application of Slime Moulds in Urban D, Oral, 4 th International Congress on Engineering, Architecture and Design, Istanbul, Turkey.
5	Deniz I. , Biodiesel Production from Microalgae, 5-8 June, 2018, Oral, II. International Scientific and Vocational Studies Congress (BILMES 2018), Kapadokya, Turkey.
6	Köktürk G., Tokuç A., Akyol-Altun D., Avcı-Özkaban F., Andiç-Çakır O., Keskin-Gündoğdu T., Deniz I. , Şendimir-Ürkmez A., June 24 - 28, 2018, Biologically Based Network Design With Ants For Route Planning, Oral, 7th Global Conference on Global Warming (GCGW 2018), Izmir, Turkey.

7	Karaveli O., Cicek C., Deniz I. , Applications of Bioluminescent Microorganisms, 14-15 November, 2018, II. International University Industry Cooperation, Oral, R&D And Innovation Congress, Manisa, Turkey.
8	Köktürk G., Tokuç A., Andiç-Çakır O., Akyol-Altun D., Avcı-Özkaban F., Deniz I. , Keskin-Gündoğdu T., Şendimir-Ürkmez A., 7 - 9 June 2017, Slime moulds for supportive biologically-based urban design methods, 3rd International Conference of Biodigital Architecture & Genetics, Oral, Barcelona, Spain.
9	Arıç A., Yılmazsoy BT., Deniz I. , Keskin T., 26 - 28 October 2018, Optimization of concentration and sand thickness for agar assisted sand hardening process by microbial biocalcification, International Conference on Engineering Technologies (ICENTE 2018), Konya, Turkey. p. 19-21.
International – Oral - Abstract	
1	Filizfidanoğlu A., Alyuruk G., Deniz I. , October 2-4, 2023, Applications of Recombinant Microorganisms for the Production of PHAs, 3rd Congress of Geneticists in Bosnia and Herzegovina with international participation (GENuBiH2023), Oral, Genetic Association in Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina. <i>Invited Speaker</i>
2	Deniz I. , December 7-10, 2022, Comparison of different pretreatments on the enzymatic hydrolysis and lignin recovery of walnut shell, International Conference on Biotech for Sustainable Bioresources and Bioeconomy (BSBB-2022), Oral, Indian Institute of Technology, Guwahati, India. <i>Invited Speaker</i>
3	Deniz I. , October 27-30, 2022, Lignin Recovery of a Lignocellulosic Biomass Waste, International Forum on Industrial Bioprocessing – X. the International Conference of the IBA, Virtual. <i>Invited Speaker</i>
4	Deniz I. , September 9-11, 2022, Hydrolysis and lignin recovery of nutshell, 3rd International Enzyme and Bioprocess Days (EBDays2022), Tokat, Turkey, <i>Invited Speaker</i>
5	Deniz I. , September 12 – 15, 2021, Design aspects of the Utilization of Insoluble Substrates in Submerged Fermentation: Challenges and solutions, 9th International Conference on Bioprocessing IBA-IFIBiop 2021, Oral, Coahuila, Mexico. <i>Invited Speaker</i>
6	Deniz I. , April 04 - 08, 2021, Bioproducts Derived from Lignocellulosic Biomass, International Conference on Biotechnology for Sustainable Agriculture Environment and Health (BSAEH-2021), Jaipur, India. <i>Invited Speaker</i>
7	Altunacar N., Şener I., Yaman Y., Budakoğlu B., Topkara E., Esmer A., Ezan M.A., Tokuç A., Köktürk G., Deniz I. , 8 - 12 August 2021, Development and Validation of a Dynamic Thermal Model for a Water Wall Integrated Indoor, TUBA World Conference on Energy Science and Technology (TUBA WCEST-2021), Virtual conference.
8	Rebours C., Barbier M., Deniz I. , Dubnika A., Edwards C., Gaudêncio S.P., Rotter A., May 14 – August 13, 2021, European transdisciplinary networking platform for marine biotechnology (Ocean4Biotech), The 7th Conference of the International Society For Applied Phycology ISAP, Japan.
9	Deniz I. , September 1-3, 2020, Microbial Protease Production for Decomposing of Insoluble Proteins, Oral, II. International Enzyme & Bioprocess Days, Gebze, Turkey.
10	Conk-Dalay M., Deniz I. , February 5-6, 2020, Microalgal Fatty Acids and Their Production For Sustainability, Oral, International Conference Ocean4Biotech, Piran, Slovenia.
11	Şendimir-Ürkmez A., Andiç-Çakır O., Baran B., Ceylan B., Tokuc A., Deniz I. , Avcı-Özkaban F., Akyol-Altun D., Köktürk G., Sarsar F., March 29, 2019, The Development of Biomimicking and Biodesign Education for Faculty Members Teaching in Architecture/Engineering Departments, Oral, International Instructional Technologies in Engineering Education Conference, Izmir, Turkey.

12	Aslanbay B., Deniz I. , Demirel Z., Oncel S., Imamoglu E., February 26 - 27, 2019, Computational Fluids Dynamics Modelling of Stirred Tank Photobioreactor for <i>Haematococcus pluvialis</i> production: Hydrodynamics and Mixing Conditions, Oral, COST EUALGAE European Recent Advances in the Microalgae Field, Madrid, Spain.
13	Deniz I. , Keskin-Gündoğdu T, Yilmazsoy B.T., Aric A., Köktürk G., Tokuç A., Andiç-Çakır O., Akyol-Altun D., Avcı-Özkaban F., Şendimir-Ürkmez A., 26-29 October 2017, Design and optimization of biocalcification medium, International Congress on Technology Engineering and Science (ICONTEs), Oral, Antalya, Turkey.
14	Aslanbay B., Deniz I. , Demirel Z., Oncel S., Imamoglu E., 15-17 May 2017, Transition from cultivation bottle to stirred tank photobioreactor for fucoxanthin production, Oral, International Conference on Agriculture, Forest, Food Sciences and Technologies (ICAFOF 2017), Cappadocia, Turkey.
15	Deniz I. , Zihnoğlu F., Oncel S. S., Hames E. E., Vardar Sukan F., Production, Purification and Characterization of Keratinase: Meeting Engineering and Biology in Bioprocess Design, 7th International Bioengineering Congress, 19-21 November 2015, Oral, Izmir Turkey.
16	Deniz I. , Demirkaya C., Demirel Z., Imamoglu E., Conk Dalay M., 19-21 November 2015, Biodesign for Cryopreservation of Microalgae, Oral, VII th International Bioengineering Congress, (BEC2015), İzmir, Turkey.
17	Deniz I. , Imamoglu E., Vardar Sukan F., Effect of oxygen mass transfer rate in bioethanol production and recovery of bioethanol using pervaporation unit, Oral, Green Infrastructure and Sustainable Societies/Cities, May 8-10, 2014, İzmir, Turkey.
International – Poster – Full Text	
1	Aslanbay B., Deniz I. , Demirel Z., Oncel S., Imamoglu E., 13-15 September 2017, Transition from cultivation bottle to stirred tank photobioreactor for <i>Haematococcus pluvialis</i> growth, Poster, EUALGAE Training School: Microalgae processes: from fundamentals to industrial scale, Poster, Almeria, Spain.
2	Deniz I. , Imamoglu E., Vardar-Sukan F., Evaluation of physical parameters on bioethanol production, International Congress on “Green Infrastructure and Sustainable Societies/Cities” GreInSus’14 Proceeding Full Text (2014) 61-65. ISBN: 978-605-85204-1-7.
3	Deniz I. , Imamoglu E., Vardar-Sukan F., Pervaporation of bioethanol produced from apple pomace, Ecology of Urban Areas Proceeding Full Text (2014), 9-10 October, 498-503, Serbia.
International – Poster – Abstract	
1	Aslanbay B., Deniz I. , Demirel Z., Oncel S., Imamoglu E., 25-27 May 2017, Evaluation of hydrodynamic parameters and rheological behaviours for <i>Haematococcus pluvialis</i> production in stirred tank photobioreactor, Poster, European Biotechnology Congress 2017, Dubrovnik, Croatia.
2	Demirkaya C., Deniz I. , Demirel Z., Imamoglu E., Conk Dalay M., 19-21 November 2015, Longterm Storage of Eukaryotic Microalgae, Poster, VII th International Bioengineering Congress, (BEC2015), İzmir, Turkey.
3	Deniz I. , Demir T., Oncel S.S., Hames E., Vardar Sukan F., Scale up of keratinase production by <i>Streptomyces</i> sp. 2M21: From 250 ml to 5 L, ISBA’17, 8-12 October 2014, Poster, Kuşadası, Turkey.
4	Deniz I. , Demir T., Hames E., Oncel S.S., Zihnioglu F., Vardar Sukan F., Enhanced keratinase production in packed bed reactor by <i>Streptomyces</i> sp. 2M21, BIOCAT, 31 August-4 September 2014, Poster, Hamburg, Germany.
5	Deniz I. , Imamoglu E., Vardar Sukan F., Enhanced bioprocess yield in batch bioethanol production by recombinant <i>E. coli</i> KO11, Poster, The Fourth Annual Workshop of COST FP0602: Biotechnical Processing of Lignocellulosic Raw Materials, September 21-24, 2010, Cesme,

6	Imamoglu, E., Deniz, I. , Vardar Sukan, F., Conk Dalay, M., Sargin, S., Ongen, G., 2-3 Eylül 2009, Bioethanol Production from Pretreated Rice Hulls by <i>Escherichia coli</i> mutant, Poster, COST FP0602 Third Annual Workshop, Villa Monastero Varenna (Lecco), Italy.
7	Deniz I. , Imamoglu E., Vardar Sukan F., Fruit pomace waste for bioethanol production, Poster, The VIth International Bioengineering Congress, November 12-15, 2013, Kusadası, Turkey.
National – Oral – Abstract	
1	Gezen O., Deniz I. , 13-14 December 2023, Ligninin Geri-kazanımı ve Endüstriyel Olarak Değerlendirilmesi, 5. Ulusal Üniversite-Sanayi İş Birliği, Ar-Ge ve Inovasyon Kongresi, Manisa, Turkey.
2	Filizfidanoğlu A., Deniz I. , 21-23 November 2022, Mikroalg Üretiminde Fotobiyoreaktör Tasarımları ve Tekno-Ekonomik Değerlendirme, Mikroalg Biyoteknoloji Laboratuvarından Ürüne Çalıştayı, Bornova-İzmir, Turkey.
3	Deniz I. , 16-17 December 2022, Lignoselülozik Biyokütleden Biyoetanol Üretimi, Biyokütlenin Enerji Yolculuğu Teknik Eğitimi, Anemon Otel- Manisa, Turkey.
4	Aslanbay B., Deniz I. , Demirel Z., Imamoglu, E., 1-3 December 2017, Panel Fotobiyoreaktörde Fukoksantin Üretimi, Oral, 19 th National Biotechnology Congress (with International Participants), Eskisehir, Turkey.
5	Deniz I. , Imamoglu E., Vardar Sukan F., 24-27 May 2016, Integrated bioprocesses and industrial designs in microalgal bioproductions, Oral, 2 nd National Algae Technology Symposium, Seferihisar, İzmir, Turkey.
6	Deniz I. , Imamoglu, E., Vardar Sukan, F., 7-8 October 2011, Agro-Industrial Wastes for Bioethanol Production with Recombinant <i>E. coli</i> KO11 in Pilot Scale Bioreactors, Oral, National Workshop and Exhibition on Renewable Energy Sources and Biomass, TMMOB Kimya Mühendisleri Bursa, Turkey.
National – Poster - Abstract	
1	Deniz I. , Keskin Gundogdu T., Imamoglu E., Vardar Sukan F., 24-27 May 2016, LCA Applications in microalgal biorefineries, Poster, 2 nd National Algae Technology Symposium, Seferihisar, İzmir, Turkey.

JOURNAL EDITOR and REVIEWER ROLES

1	Editor of Special Issue of III. International Enzyme and Bioprocess Days in Biochemical Engineering Journal (2023) (SCI, Q2) (https://www.sciencedirect.com/journal/biochemical-engineering-journal/special-issue/10446W0KM1F)
2	Editorial Board Member of Biochemical Engineering Journal (SCI, Q2) (https://www.journals.elsevier.com/biochemical-engineering-journal/editorial-board)
3	Editorial Board Member of Chemical Engineering Journal (SCI, Q2) (https://www.journals.elsevier.com/chemical-engineering-journal/editorial-board/irem-deniz-can)
4	Editor for the Frontiers in Chemical Engineering Journal “Valorization of Biomass: Towards the Production of Fine Chemicals and Materials” (ESCI, Q1) https://www.frontiersin.org/research-topics/52226/valorization-of-biomass-towards-the-production-of-fine-chemicals-and-materials#authors
5	Review Editor for Frontiers in Genetics (SCI, Q1) (https://www.frontiersin.org/journals/genetics#editorial-board)
6	Review Editor for Biofuels, Frontiers in Fuels (SCI, Q1) (https://www.frontiersin.org/journals/fuels#editorial-board)
7	Review Editor for Frontiers in Cell and Developmental Biology, Frontiers in Bioengineering and Biotechnology (SCI, Q1) (https://www.frontiersin.org/journals/cell-and-developmental-biology#editorial-board)

8	Review Editor for Microbiotechnology - Frontiers in Microbiology Biotechnology (SCI, Q1) (https://www.frontiersin.org/journals/microbiology#editorial-board)
9	Editorial Board Member of Chemical Engineering Journal (SCI, Q2) (https://www.sciencedirect.com/journal/chemical-engineering-journal/about/editorial-board)
10	Editorial Board Member of Open Journal of Nano (ULAKBIM) https://dergipark.org.tr/tr/pub/ojn/board
11	Guest Editor of Dokuz Eylul University Engineering Faculty Science and Engineering Journal (ULAKBIM)
12	Reviewer of Biochemical Engineering Journal (SCI)
13	Reviewer of Bioresource Technology (SCI)
15	Reviewer of International Hydrogen Energy (SCI)
16	Reviewer of Asia-Pacific Journal of Chemical Engineering (SCI)
17	Reviewer of Chemical Technology and Biotechnology (SCI)
18	Reviewer of Energy Conversion and Management (SCI)
19	Reviewer of Renewable and Sustainable Energy Reviews (SCI)
20	Reviewer of Preparative Biochemistry & Biotechnology (SCI)
21	Reviewer of Turkish Journal of Biotechnology (SCI-Expanded)
22	Reviewer of International Journal of Engineering Technologies (ULAKBIM)
23	Reviewer of Academic Platform Journal of Engineering and Science (ULAKBIM)

OTHER SCIENTIFIC ACTIVITIES

1	Scientific Committee Member for the 5. Bioenergy Studies Symposium, 17-18 January 2024, Antalya, Turkey
2	Invited Speaker at the Congress of Geneticists, 2-4 October 2023, Sarajevo, Bosnia and Herzegovina
3	Invited Speaker at the 3rd International Enzyme and Bioprocess Days, 9-11 September 2022, Tokat, Turkey
4	Invited Speaker at the International Conference on Biotech for Sustainable Bioresources and Bioeconomy (BSBB-2022), 7-10 December 2022, Guwahati, India
5	Invited Speaker at the National “Mikroalgal Biyoteknoloji Laboratuvarından Ürüne Çalıştayı”, 21-23 November 2022, İzmir, Turkey
6	Invited Lecturer at the “Türkiye Ekonomisinin Yeşil Büyüme Yolunda Kalkınmasını Destelemek Amacıyla Sürdürülebilir Biyokütle Kullanımı Projesi - Biyokütlenin Enerji Yolculuğu Teknik Eğitimi”, 16-17 December 2022, Manisa, Turkey.
7	Invited Speaker at the International Forum on Industrial Bioprocessing – Xthe International Conference of the IBA, 27-30 October 2022, Kaohsiung, Taiwan
8	President of National Bioeconomy Workshop for A Sustainable World “Sürdürülebilir ve Yaşanabilir Bir Dünya İçin Biyoekonomi Çalıştayı (SUDUBEC), November 30 - December 1, 2021, Manisa, Turkey.
9	Local Organising Committee Member of the 4th National University-Industry Cooperation, R&D Congress “4. Ulusal Üniversite-Sanayi İş Birliği, Ar-Ge ve İnovasyon Kongresi, December 15-16, 2021”, Manisa, Turkey.
10	Invited Speaker at the 9th International Conference on Bioprocessing IBA-IFIBiop 2021, September 12-15, 2021, Coahuila, Mexico.

11	Invited Speaker at the 4th Faculty Development Programme: Workshop on Scientific Paper Publication: Critical Issues, August 12 – 13, 2021, College of Agriculture, Central Agricultural University, Iroisemba Imphal, Manipur.
12	Local Organising Committee Member of the ProtStab 2021 Conference (13th International Conference on Protein Stabilization), October 7 – 9, 2021, Bulgaria.
13	Invited Speaker at CECOLAB- A Knowledge & Science Global Agenda Towards A Circular Economy, June 18, 2021, Online International Informal Meeting.
14	Invited Speaker at the International Conference on Biotechnology for Sustainable Agriculture Environment and Health (BSAEH-2021), April 04-08, 2021, Jaipur, India.
15	Invited Speaker at the 2nd International Enzyme and Bioprocess Days, 1-3 September 2020, Gebze, Turkey
16	Invited Speaker at COST Info Day, 21 January 2020, TUBITAK, Ankara, Turkey
17	Invited Speaker at Çevre Haftası ve Dünya Çölleşme Günü Paneli «Döngüsel Ekonomi», 13 June 2022, İzmir Demokrasi Üniversitesi Sürdürülebilir Çevre Çalışmaları Uygulama ve Araştırma Merkezi, İzmir, Turkey
18	MC Member, WG Leader in COST (European Cooperation in Science and Technology) Action CA18238, 2019-2023
19	MC Member in COST (European Cooperation in Science and Technology) Action CA17128, 2018-2022
20	Local Organizing Committee Member of the 13th International Conference on Protein Stabilization (ProtStab2021), October 07 - 09 2021, Plovdiv, Bulgaria
21	International Advisory Committee Member of the International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2020), April 04-08 2021, Jaipur, Rajasthan, India http://brsi2020jaipur.in/index
22	Scientific Committee Member of the 7th International Conference on Control, Instrumentation and Automation (ICCIA2020), 23-24 February 2020, University of Tabriz, Tabriz-Iran https://iccia2020.tabrizu.ac.ir/en
23	International Advisory Member of the International Conference on Thermal Engineering and Management Advances (ICTEMA 2020), 27-18 June 2020, West Bengal, India https://www.ictema2020.com/
24	Program Committee Member of the World Congress on Chemistry, 24-25 October, 2019, Valencia, Spain http://chemistry.conferenceera.com/
25	Scientific Committee Member of the International Instructional Technologies in Engineering Education Conference (IITEEC), 29th March 2019, Izmir, Turkey http://iitee.org/
26	Scientific Committee Member of the 2nd International Instructional Technologies in Engineering Education Conference (IITEEC), 12-13 September 2019, Izmir, Turkey http://iitee.org/
27	Working Group Committee Member in COST (European Cooperation in Science and Technology) Action ES1408, 2017-2018
28	Invited Panelist on the 24th National Biology Congress, Manisa, 10-14 September 2018
29	Scientific Secretariat and Organization Committee Member on the 2nd National Algae Technology Symposium
30	Scientific Secretariat and Organization Committee Member in the VII. International Bioengineering Congress
31	Scientific Secretariat in the 1st Workshop on Biodesign at the Intersection of Creativity and Bioengineering
32	Invited Speaker at 12th Bioengineering Days, Being a Researcher in Bioengineering Field, 15-16 May 2015, İzmir, Turkey.
33	Scientific Secretariat in the 1st Workshop and Training on LCA2015, Life Cycle Assessment

34	Organization Committee Member in the VI. International Bioengineering Congress
35	Scientific Secretariat in the COST FP0602 Fourth Annual Workshop
36	Organization Committee Member in the V. International Bioengineering Congress
37	Organization Committee Member in the IV. International Bioengineering Congress

AWARDS and HONORS

1	Winner to attend to the Training School of the COST Action CA18238, “Life cycle assessment for Marine Biotechnology value chains”, 4-5 April 2023, Crete, Greece.
2	Certificate of Outstanding Contributions in Reviewing, Elsevier, Biochemical Engineering Journal, Hamburg, 2017
3	Certificate of Outstanding Contributions in Reviewing, Elsevier, Renewable and Sustainable Energy Resource, Hamburg, 2017
4	Certificate of Outstanding Contributions in Reviewing, Elsevier, Energy Conversion and Management, Hamburg, October 2016.
5	Certificate of Outstanding Contributions in Reviewing, Elsevier, Energy Conversion and Management, Hamburg, March 2016.
6	Certificate of Outstanding Contributions in Reviewing, Elsevier, Biochemical Engineering Journal, Hamburg, 2015.
7	Bioart Award (2.), 7th International Bioengineering Congress (BEC2015), Turkey, 19-21 November 2015, awarded by the Congress Scientific Committee.
8	Best Student Presentation Award, International Green Energy Conference (IGEC2021), China, 18 July 2021, awarded by International Association for Green Energy (IAGE).

MANAGEMENT TASKS AND BOARD MEMBERSHIPS at MCBU

1	SANTEK (<i>Manisa Sanayi ve Teknoloji Bakanlığı İşbirliği Kurulu</i>) “Manisa Ministry of Industry and Technology Cooperation Board”, MCBU Representative (2023 -)
2	Director of MCBU University-Industry Cooperation Technology Application and Research Center (MCBU-USITEM) (2022 -)
3	Project Development/Management, Training, Awareness Services Manager-MCBU Technopark (2022 -)
4	Board Member of MCBU Faculty of Engineering (2021 -)
5	Management Committee Member of Technical Education MCBU R&D Design Center Cooperation Platform (MCBU-MATIP) (2021 -)
6	Vice Director of MCBU University-Industry Cooperation Technology Application and Research Center (MCBU-USITEM) (2021 - 2022)
7	Vice Head of MCBU Bioengineering Department (2020 - 2022)

PROFESSIONAL MEMBERSHIPS

1	Member and Turkish Representative of International Bioprocessing Association (IBA) (2016 -)
2	Member of European Federation of Biotechnology (EFB) (2022 -)
3	Co-Founder of Hope Biotechnology A.S. Company (2022 - 2023)
4	Co-Founder of Turkey Biodesign Team (TBT) (2015-2019)

COURSES TAUGHT

Bachelor's Degree (Undergraduate)

1	Bioprocess Engineering – BIE3113 (2018 -)
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2	Heat Transfer – ENG 3133 (2017 -)
3	Bioreaction Engineering – BIE3122 (2018 - 2023)
4	Thermodynamics – ENG2164 (2018 - 2023)
5	Graduation Project I – BIE4111 (2018 -)
6	Graduation Project II – BIE4120 (2018 -)
7	Industrial Applications Training – BIE4100 (2018 -)
8	Biodesign as A Sustainable Design Methodology – BIE4244 (2018 -)
9	Industrial Bioreactors and Scale-Up – BIE4240 (2018 -)
10	Engineering Economy – BIE3140 (2023 -)
Master's degree (Postgraduate)	
1	Basic Topics in Bioengineering – BIE5101 (2021 - 2023)
2	Trends in Bioprocessing – BIE5226 (2021 -)
3	Advanced Bioreactor Applications – BIE5221 (2021 -)
4	Industrial Bioprocess Applications – BIE5220 (2021 -)
5	Applications of Microalgal Bioproducts – BIE5218 (2023 -)
6	Advanced Separation and Purification Technologies – BIE 5224 (2023 -)

PATENTS

1	A Bacterial Biocalcification Method and Construction Materials Obtained by Means of This Method, International Patent No (EPO, WIPO-PCT): WO2019054969A2 (Registered), The Invention Recourse Number: EP/18 855 372.1-1108
2	A New Methodology for Bacterial Biocalcification and Structural Materials Build in This Method, “Bir Bakteriyel Biyokalsifikasyon Yöntemi ve Bu Yöntemle Elde Edilen Yapı Malzemeleri”, National Patent Application No: 2017/13505 (Registered)
3	A New Living Space for High Amounts of Electric Production, “Yüksek Miktarlarda Elektrik Üretimi İçin Yeni Bir Alg Yaşam Alanı”, National Patent Application No: 2021/009217 (Applied)
4	A System that can Measure the Variable Thermal and Optical Properties of Facade Systems with Time-wise Changing Properties in Laboratory and Outdoor Conditions, “Zamana Bağlı Değişim Gösteren Cephe Sistemlerinin Termal ve Optik Özelliklerini Laboratuvar ve Dış Ortam Koşullarında Ölçebilen Bir Sistem”, National Patent Application No: 2023/xxxxx (Applied)

EXHIBITIONS

1	International EXPO2016, Project Number 10: Architectures from Sand, 23th April-1th November 2016, Antalya-Turkey
2	Good Design Izmir, Biodesign Workshop and Expo, October 16-18, 2017, Izmir-Turkey

CITATIONS

Google Scholar	740 (h index= 15 / i index= 16) https://scholar.google.com.tr/citations?user=zd3YrKIAAAAJ&hl=tr&oi=ao
Scopus	549 (h index= 12) https://www.scopus.com/authid/detail.uri?authorId=56174254800
Web of Science	427 (h index= 12) https://www.webofscience.com/wos/author/record/1106638

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