



## Assoc. Prof. Dr. Irem DENIZ

### CONTACT INFORMATION

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

### EDUCATION and ACADEMIC TITLE

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

### EXPERIENCE

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

### RESEARCH INTERESTS

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

### THESIS

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

**PUBLICATIONS (SCI & SCI-EXPANDED)**

No	Paper Info	Citation (WoS)*
1	Rotter A., Gaudêncio S. P., Klun K., Macher J. N., Thomas O. P., <b>Deniz I.</b> , 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, <i>Frontiers in Marine Science</i> , 685164 (2021), DOI: 10.3389/fmars.2021.685164. (Q1, IF: 3.661)	
2	Karaveli O., <b>Deniz I.</b> , Key Challenges of Microbial Degradation of Keratinous Wastes, <i>Protein Journal</i> , 40:361–366 (2021). DOI: 10.1007/s10930-021-09966-9. (Q2, IF: 1.317)	
3	<b>Deniz I.</b> , Demir T., Oncel S.S., Hames E., Vardar-Sukan F., Effect of agitation and aeration on keratinase production in bioreactors using bioprocess engineering aspects, <i>Protein Journal</i> , 40:388–395 (2021). DOI: 10.1007/s10930-021-09978-5. (Q2, IF: 1.317)	1
4	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., <b>Deniz I.</b> , et al., The essentials of marine biotechnology, <i>Frontiers in Marine Science</i> , 629629 (2021), DOI: 10.3389/fmars.2021.629629. (Q1, IF: 3.661)	11
5	Aslanbay B., <b>Deniz I.</b> , Demirel Z., Oncel S., Imamoglu E., Evaluation of scale-up methodologies and CFD simulation for fucoxanthin production in air-lift photobioreactor, <i>Asia-Pacific Journal of Chemical Engineering</i> , 15(6): e2532 (2020), DOI: 10.1002/apj.2532. (Q2, IF: 1.06)	1
6	<b>Deniz I.</b> , Scaling-up of <i>Haematococcus pluvialis</i> production in stirred tank photobioreactor, <i>Bioresource Technology</i> , 310: 123434 (2020). DOI: 10.1016/j.biortech.2020.123434. (Q1, IF: 7.539)	8
7	Rotter A., Bacu A., Barbier M., Bertoni F., Bones A.M., Cancela M.L., Carlsson J., Carvalho M.F., Ceglowska M., Conk-Dalay M., Daillianis T., <b>Deniz I.</b> 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)	6
8	Barreca M., Spanò V., Montalbano A., Cueto M., Marrero A. D., <b>Deniz I.</b> 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)	18
9	Aslanbay B., <b>Deniz I.</b> , 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)	2
10	Aslanbay B., <b>Deniz I.</b> , 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)	14
11	Aslanbay B., <b>Deniz I.</b> , 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)	8
12	<b>Deniz I.</b> , 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)	

13	<b>Deniz I.</b> , Zihnioglu F., Oncel S., Hames E. E., Vardar-Sukan F., Production, purification and characterization of a proteolytic enzyme from <i>Streptomyces</i> sp. 2M21, Biocatalysis and Biotransformation, 37-5 (2019) 377–387. DOI: 10.1080/10242422.2019.1568415. (Q3, IF:1.863)	3
14	Aslanbay B., <b>Deniz I.</b> , Demirel Z., Oncel S., Imamoglu E., Transition from start-up to scale-up for fucoxanthin production in flat plate photobioreactor, Journal of Applied Phycology, 31-3 (2019) 1525–1533. DOI: 10.1007/s10811-018-1696-7. (Q1, IF:5.851)	8
15	Aslanbay B., <b>Deniz I.</b> , Demirel Z., Oncel S., Imamoglu E., Comparison of different photobioreactor configurations and empirical computational fluid dynamics simulation for fucoxanthin production, Algal Research 37 (2019) 195–204. DOI: 10.1016/j.algal.2018.11.019. (Q1, IF:4.008)	16
16	Aslanbay B., <b>Deniz I.</b> , Demirel Z., Oncel S., Imamoglu E., Evaluation of hydrodynamic parameters and rheological behaviours for <i>Haematococcus pluvialis</i> production in stirred tank photobioreactor, Journal of Biotechnology 256:S54 (2017). (Q1, IF:3.163)	
17	<b>Deniz I.</b> , Ozen M. O., Yesil-Celiktas O., Supercritical fluid extraction of phycocyanin and investigation of cytotoxicity on human lung cancer cells, The Journal of Supercritical Fluids 108 (2016) 13–18. DOI: 10.1016/j.supflu.2015.10.015. (Q1, IF:3.744)	32
18	Keskin-Gundogdu T., <b>Deniz I.</b> , Caliskan G., Sefa E., Azbar N., Experimental design methods for bioengineering applications, Critical Reviews in Biotechnology, 36-2 (2016), 368–388. DOI: 10.3109/07388551.2014.973014. (Q1, IF:8.108)	59
19	<b>Deniz I.</b> , 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
20	<b>Deniz I.</b> , 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)	7
21	<b>Deniz I.</b> , 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)	53
22	<b>Deniz I.</b> , Imamoglu E., Vardar-Sukan F., Aeration enhanced bioethanol production, Biochemical Engineering Journal 92 (2014) 41–46. DOI: 10.1016/j.bej.2014.05.011. (Q1, IF:3.475)	11

#### OTHER PUBLICATIONS

1	Karaveli O., <b>Deniz I.</b> , Bidesigning 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.
2	<b>Deniz I.</b> , 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.
3	Arıç A. <b>Deniz I.</b> , 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.

4	Keskin T., <b>Deniz I.</b> , Aric A., Yilmazsoy B.T., Andic-Cakir O., Erdođan 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.
5	Demirel Z., Imamoglu E., <b>Deniz I.</b> , 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.
6	<b>Deniz I.</b> , 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.
7	<b>Deniz I.</b> , Keskin Gündođdu T., Tokuç A., Şendemir Ürkmez A., Köktürk G., Andiç Çakir O., Akyol Altun D., Final Declaration of the "1st Workshop on Biodesign at the Intersection of Creativity and Bioengineering", Dokuz Eylul University Engineering Faculty Science and Engineering Journal (ULAKBIM, TR dizin), 18(52) (2016) 7-14. DOI: 10.21205/deufmd.20165217540.
8	<b>Deniz I.</b> , 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.

### BOOK

1	<b>Deniz I.</b> , Vardar-Sukan F., Biorefining of Agroindustrial Wastes for Bioethanol Production, 2015, Lambert Academic Publishing, ISBN: 978-3-659-77883-4.
---	--

### BOOK CHAPTERS (SCOPUS, WOS)

No	Paper Info	Citation (WoS)*
1	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.	
2	Taymaz E., Uslu M.E., <b>Deniz I.</b> , 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: 9781119791980. DOI: 10.1002/9781119793038.ch1.	
3	Inam A., Mutaf T., <b>Deniz I.</b> , Sustainable biorefineries for circular bioeconomy, In: 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.	
4	Sindhu R., Shiburaj S., Sabu A., ..., <b>Deniz I.</b> , ..., Pandey A., Enzyme Technology in Food Processing: Recent Developments and Future Prospects, In: Innovative Food Processing Technologies: A Comprehensive Review, 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
5	<b>Deniz I.</b> , 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 (An imprint of Elsevier), 2017, pp 429-460, ISBN: 978-0-08-101023-5. DOI: 10.1016/B978-0-08-101023-5.00018-2.	8

6	<b>Deniz I.</b> , 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.	
7	<b>Deniz I.</b> , 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.	2
8	<b>Deniz I.</b> , Chapter 2: Production of Microbial Proteases for Food Industry, In: Green Bioprocesses, Part of the Energy, Environment, and Sustainability book series (ENENSU), Editors: Binod Parameswaran, Sunita Varjani, Sindhu Raveendran, Springer, Singapore, 2019, pp 9-14, ISBN: 978-981-13-3262-3, DOI: 10.1007/978-981-13-3263-0_2.	2
9	<b>Deniz I.</b> , Aslanbay-Guler B., Imamoglu E., Chapter 10: State of Art Strategies for Biodiesel Production: Bioengineering Approaches, In: 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.	1

## PROJECTS

	Organization	Research Topic / Title	Position	Years
c	TUBITAK- 1001 - 218M850	Cephelerde Mikroalg Yetiştirilmesinin Bina Ile Bütünleşme Potansiyelinin Araştırılması Ve Farklı İklim Koşulları İçin Değerlendirilmesi	Researcher	2019-2022
2	COST CA18238 ACTION	European Transdisciplinary Networking Platform for Marine Biotechnology	MC Member / WG Leader	2019-2023
3	COST CA17128 ACTION	Establishment of a Pan-European Network on the Sustainable Valorisation of Lignin	MC Member	2018-2022
4	TUBITAK- 2209A	Biyoluminesans Özellikli <i>Pyrocystis lunula</i> 'nın Üretim Optimizasyonu	Supervisor	2018-2019
5	TUBITAK- 4005 - 218B544	Mimarlık/Mühendislik Eğitimi için Yenilikçi ve Yaratıcı Bir Yaklaşım: Biyobenzetim ve Biyotasarım	Researcher	2019
6	TUBITAK- 4007 - 118B791	Mersin Bilim Şenliği	Researcher	2018
7	TÜBİTAK- 4004 - 118B615	Dogaya Sor; En İyi O Bilir: Biyobenzetimden Biyotasarıma	Lecturer	2018
8	MCBU- Scientific Research Project 2018-114	Microalgal Biomass Production in Bioreactors	Project Manager	2018-2020
9	TUBITAK- 1002 - 216M507	<i>Physarum polycephalum</i> Cıvık Mantarları Kullanılarak Yol İzlerinin Bulunması- İzmir Örneği	Researcher	2017-2018
10	COST ES1408 Action	European Network for Algal-Bioproducs (EUALGAE)	Working Group Member	2015-2018

11	TUBITAK- 2515 - 115M014	Bioprocess Development for Microalgal Carotenoid Production	Researcher	2017-2018
12	TUBITAK- 1001 - 115M014	Mikroalgal Karotenoid Üretimi İçin Biyoproses Geliştirilmesi	Scholarship	2015-2017
13	TUBITAK- 1001 - 112M250	Tavuk Tüylerinden Büyük Ölçekte Keratinaz Üretimi	Scholarship	2012-2015
14	Ege-BAP 13/Bil/020 Scientific Research Project	Tavuk Tüylerinden Büyük Ölçekte Keratinaz Üretimi	Researcher	2013-2015
15	Ege-BAP 19/Bil/011 Scientific Research Project	Bioethanol Production from Lignocellulosic Wastes	Researcher	2010-2011
16	Ege-BAP 16/MUH/051 Scientific Research Project	Bioprotocol Designing for Lutein Production	Researcher	2016-2018

## PROCEEDINGS

### *International - Oral - Full Text*

1	Altunacar N., İ. Şener, Y. Yaman, B. Budakoğlu, E. Topkara, A. Esmer, M. A. Ezan, A. Tokuç, G. Köktürk, İ. Deniz, 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., <b>Deniz I.</b> , 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
3	Yaman Y., Budakoglu B., Altunacar N., Sener I., Köktürk G., <b>Deniz I.</b> , 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 (IGECCXIII), Tianjin, China.
4	Kale I., Akyol-Altun D., Avcı-Özkaban F., Köktürk G., Tokuc A., <b>Deniz I.</b> , Şendemir-Ürkmez A., Andiç-Çakır O., April 23 - 24, 2019, Application of Slime Moulds in Urban D, Oral, 4 <sup>th</sup> International Congress on Engineering, Architecture and Design, Istanbul, Turkey.
5	<b>Deniz I.</b> , 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., <b>Deniz I.</b> , Şendemir-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., <b>Deniz I.</b> , 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., <b>Deniz I.</b> , Keskin-Gündoğdu T., Şendemir-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., <b>Deniz I.</b> , 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	<b>Deniz I.</b> , 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.
2	<b>Deniz I.</b> , April 04-08, 2021, Bioproducts Derived From Lignocellulosic Biomass, International Conference on Biotechnology for Sustainable Agriculture Environment and Health (BSAEH-2021), Jaipur, India.
3	Altunacar N., Şener I., Yaman Y., Budakoğlu B., Topkara E., Esmer A., Ezan M.A., Tokuç A., Köktürk G., <b>Deniz I.</b> , 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.
4	Rebours C., Barbier M., <b>Deniz I.</b> , 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.
5	<b>Deniz I.</b> , September 1-3, 2020, Microbial Protease Production for Decomposing of Insoluble Proteins, Oral, II. International Enzyme & Bioprocess Days, Gebze, Turkey.
6	Conk-Dalay M., <b>Deniz I.</b> , February 5-6, 2020, Microalgal Fatty Acids And Their Production For Sustainability, Oral, International Conference Ocean4Biotech, Piran, Slovenia.
7	Şendemir-Ürkmez A., Andiç-Çakır O., Baran B., Ceylan B., Tokuc A., <b>Deniz I.</b> , 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.
8	Aslanbay B., <b>Deniz I.</b> , 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.
9	<b>Deniz I.</b> , Keskin-Gündoğdu T, Yilmazsoy B.T., Aric A., Köktürk G., Tokuç A., Andiç-Çakır O., Akyol-Altun D., Avcı-Özkaban F., Şendemir-Ürkmez A., 26-29 October 2017, Design and optimization of biocalcification medium, International Congress on Technology Engineering and Science (ICONTES), Oral, Antalya, Turkey.
10	Aslanbay B., <b>Deniz I.</b> , 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.
11	<b>Deniz I.</b> , 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.
12	<b>Deniz I.</b> , Demirkaya C., Demirel Z., Imamoglu E., Conk Dalay M., 19-21 November 2015, Biodesign for Cryopreservation of Microalgae, Oral, VII <sup>th</sup> International Bioengineering Congress, (BEC2015), İzmir, Turkey.
13	<b>Deniz I.</b> , 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.
<b>International – Poster – Full Text</b>	
1	Aslanbay B., <b>Deniz I.</b> , 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	<b>Deniz I.</b> , 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	<b>Deniz I.</b> , 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.
<b>International – Poster – Abstract</b>	
1	Aslanbay B., <b>Deniz I.</b> , 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., <b>Deniz I.</b> , Demirel Z., Imamoglu E., Conk Dalay M., 19-21 November 2015, Longterm Storage of Eukaryotic Microalgae, Poster, VII <sup>th</sup> International Bioengineering Congress, (BEC2015), İzmir, Turkey.
3	<b>Deniz I.</b> , 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	<b>Deniz I.</b> , 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	<b>Deniz I.</b> , 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, Turkey.
6	Imamoglu, E., <b>Deniz, I.</b> , 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	<b>Deniz I.</b> , Imamoglu E., Vardar Sukan F., Fruit pomace waste for bioethanol production, Poster, The VI <sup>th</sup> International Bioengineering Congress, November 12-15, 2013, Kusadası, Turkey.
<b>National – Oral – Abstract</b>	
1	Aslanbay B., <b>Deniz I.</b> , Demirel Z., Imamoglu, E., 1-3 December 2017, Panel Fotobiyoreaktörde Fukoksantin Üretimi, Oral, 19 <sup>th</sup> National Biotechnology Congress (with International Participants), Eskisehir, Turkey.
2	<b>Deniz I.</b> , Imamoglu E., Vardar Sukan F., 24-27 May 2016, Integrated bioprocesses and industrial designs in microalgal bioproductions, Oral, 2 <sup>nd</sup> National Algae Technology Symposium, Seferihisar, İzmir, Turkey.
3	<b>Deniz I.</b> , 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.
<b>National – Poster - Abstract</b>	
1	<b>Deniz I.</b> , Keskin Gundogdu T., Imamoglu E., Vardar Sukan F., 24-27 May 2016, LCA Applications in microalgal biorefineries, Poster, 2 <sup>nd</sup> National Algae Technology Symposium, Seferihisar, İzmir, Turkey.

### **EDITOR and REVIEWER ROLES**

1	Editorial Board Member in Biochemical Engineering Journal (SCI) ( <a href="https://www.journals.elsevier.com/biochemical-engineering-journal/editorial-board">https://www.journals.elsevier.com/biochemical-engineering-journal/editorial-board</a> )
2	Guest Editor in Dokuz Eylul University Engineering Faculty Science and Engineering Journal (ULAKBIM)



3	Reviewer in Biochemical Engineering Journal (SCI)
4	Reviewer in Bioresource Technology (SCI)
5	Reviewer in International Hydrogen Energy (SCI)
6	Reviewer in Asia-Pacific Journal of Chemical Engineering (SCI)
7	Reviewer in Energy Conversion and Management (SCI)
8	Reviewer in Renewable and Sustainable Energy Reviews (SCI)
9	Reviewer in Preparative Biochemistry & Biotechnology (SCI)
10	Reviewer in Chemical Technology and Biotechnology (SCI)
11	Reviewer in Turkish Journal of Biotechnology (SCI-Expanded)
12	Reviewer in Academic Platform Journal of Engineering and Science (ULAKBIM)
13	Reviewer in International Journal of Engineering Technologies (ULAKBIM)

### ***OTHER SCIENTIFIC ACTIVITIES***

1	President of National Bioeconomy Workshop for A Sustainable World “Surdurulebilir ve Yasanabilir Bir Dünya İçin Biyoekonomi Calistayi (SUDUBEC), November 30 - December 1, 2021, Manisa, Turkey.
2	Local Organising Committee Member of the 4 <sup>th</sup> National University-Industry Cooperation, R&D Congress “4. Ulusal Üniversite-Sanayi İş Birliği, Ar-Ge ve İnovasyon Kongresi, December 15-16, 2021”, Manisa, Turkey.
3	Invited Speaker at the 9th International Conference on Bioprocessing IBA-IFIBiop 2021, September 12-15, 2021, Coahuila, Mexico.
4	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.
5	Local Organising Committee Member of the ProtStab 2021 Conference (13th International Conference on Protein Stabilization), October 7 – 9, 2021, Bulgaria.
6	Invited Speaker at CECOLAB- A Knowledge & Science Global Agenda Towards A Circular Economy, June 18, 2021, Online International Informal Meeting.
7	Invited Speaker at the International Conference on Biotechnology for Sustainable Agriculture Environment and Health (BSAEH-2021), April 04-08, 2021, Jaipur, India.
8	Invited Speaker at the 2 <sup>nd</sup> International Enzyme and Bioprocess Days, 1-3 September 2020, Gebze, Turkey
9	Invited Speaker at COST Info Day, 21 January 2020, TUBITAK, Ankara, Turkey
10	MC Member, WG Leader in COST (European Cooperation in Science and Technology) Action CA18238, 2019-2023
11	MC Member in COST (European Cooperation in Science and Technology) Action CA17128, 2018-2022
12	Local Organizing Committee Member of the 13 <sup>th</sup> International Conference on Protein Stabilization (ProtStab2021), October 07 - 09 2021, Plovdiv, Bulgaria
13	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 <a href="http://brsi2020jaipur.in/index">http://brsi2020jaipur.in/index</a>

14	Scientific Committee Member of the 7th International Conference on Control, Instrumentation and Automation (ICCIA2020), 23-24 February, 2020, University of Tabriz, Tabriz-Iran <a href="https://iccia2020.tabrizu.ac.ir/en">https://iccia2020.tabrizu.ac.ir/en</a>
15	International Advisory Member of the International Conference on Thermal Engineering and Management Advances (ICTEMA 2020), 27-18 June 2020, West Bengal, India <a href="https://www.ictema2020.com/">https://www.ictema2020.com/</a>
16	Program Committee Member of the World Congress on Chemistry October 24-25, 2019, Valencia, Spain <a href="http://chemistry.conferenceera.com/">http://chemistry.conferenceera.com/</a>
17	Scientific Committee Member of the International Instructional Technologies in Engineering Education Conference (IITEEC), 29 <sup>th</sup> March 2019, Izmir, Turkey <a href="http://iitee.org/">http://iitee.org/</a>
18	Scientific Committee Member of the 2 <sup>nd</sup> International Instructional Technologies in Engineering Education Conference (IITEEC), 12-13 September 2019, Izmir, Turkey <a href="http://iitee.org/">http://iitee.org/</a>
19	Working Group Committee Member in COST (European Cooperation in Science and Technology) Action ES1408, 2017-2018
20	Invited Panelist on the 24 <sup>th</sup> National Biology Congress, Manisa, 10-14 September 2018
21	Scientific Secretariat and Organization Committee Member on the 2 <sup>nd</sup> National Algae Technology Symposium
22	Scientific Secretariat and Organization Committee Member in the VII. International Bioengineering Congress
23	Scientific Secretariat in the 1st Workshop on Biodesign at the Intersection of Creativity and Bioengineering
24	Invited Speaker at 12th Bioengineering Days, Being a Researcher in Bioengineering Field, 15-16 May 2015, İzmir, Turkey.
25	Scientific Secretariat in the 1st Workshop and Training on LCA2015, Life Cycle Assessment
26	Organization Committee Member in the VI. International Bioengineering Congress
27	Scientific Secretariat in the COST FP0602 Fourth Annual Workshop
28	Organization Committee Member in the V. International Bioengineering Congress
29	Organization Committee Member in the IV. International Bioengineering Congress

#### **AWARDS and HONORS**

1	Certificate of Outstanding Contributions in Reviewing, Elsevier, Biochemical Engineering Journal, Hamburg, 2017
2	Certificate of Outstanding Contributions in Reviewing, Elsevier, Renewable and Sustainable Energy Resource, Hamburg, 2017
3	Certificate of Outstanding Contributions in Reviewing, Elsevier, Energy Conversion and Management, Hamburg, October 2016.
4	Certificate of Outstanding Contributions in Reviewing, Elsevier, Energy Conversion and Management, Hamburg, March 2016.
5	Certificate of Outstanding Contributions in Reviewing, Elsevier, Biochemical Engineering Journal, Hamburg, 2015.
6	Bioart Award (2.), 7th International Bioengineering Congress (BEC2015), Turkey, 19-21 November 2015, awarded by the Congress Scientific Committee.
7	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	Vice Head of MCBU Bioengineering Department (2020 - )
2	Vice Director of MCBU University-Industry Cooperation Technology Application and Research Center (MCBU-USITEM) (2021 - )
3	Board Member of MCBU Faculty of Engineering (2021 - )
4	Management Committee Member of Technical Education MCBU R&D Design Center Cooperation Platform (MCBU-MATIP) (2021 - )

### ***PROFESSIONAL MEMBERSHIPS***

1	Member of International Bioprocessing Association (IBA) (2016 - )
2	Founder Member of Turkey Biodesign Team (TBT) (2015-2019)

### ***PATENT***

1	A Bacterial Biocalcification Method and Construction Materials Obtained by Means of This Method, International Patent Application No: WO 2019/054969 A2
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
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

### ***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	300 (h index= 9 / i index= 9) <a href="https://scholar.google.com.tr/citations?user=zd3YrKIAAAAJ&amp;hl=tr&amp;oi=ao">https://scholar.google.com.tr/citations?user=zd3YrKIAAAAJ&amp;hl=tr&amp;oi=ao</a>
Scopus	213 (h index= 8) <a href="https://www.scopus.com/authid/detail.uri?authorId=56174254800">https://www.scopus.com/authid/detail.uri?authorId=56174254800</a>
Web of Science	200 (h index= 7) <a href="https://app.webofknowledge.com/author/record/4977514">https://app.webofknowledge.com/author/record/4977514</a>

**\*Last updated on September 2021**