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Professor Kazan's research range from Chemical Engineering to Bioprocess Engineering. She has carried out collaborative research work to screen, isolate and characterize extremophiles to produce biobased materials (pharmaceuticals, industrial enzymes and biopolymers) with novel properties; to purify, characterize and stabilize proteins for industrial applications; to develop and optimize efficient and sustainable bioprocesses; and to produce biopolymers for biomedical applications. Her research also covers proteomics and metabolomics to understand the response of living cells to extreme conditions. With the knowledge gained from the projects and research activities performed, her most important mission is to achieve research activities through using bioprocess engineering tools within the green chemistry approach to contribute the creation of sustainable environment and society. In order to commercialize her research work, she founded BacPolyZyme Bioengineering LLC. BacPolyZyme provides basic and advanced bioprocess related services for manufacturers that want to produce industrial enzymes, biofuels, organic acids, biopolymers, and pharmaceuticals through fermentation processes.

ACADEMIC POSITION

Professor	Marmara University, Istanbul, TR Department of Bioengineering 2004 - present
AssociateProfessor	Marmara University, Istanbul, TR Department of Chemical Engineering 2001 - 2004
Seniour Scientist	The Scientific and Technological Research Council of Turkey (TUBITAK), Kocaeli, TR, Genetic Engineering and Biotechnology Institute (GEBI) 1994 -2001
Research and Teaching Assistant	Boğaziçi University, Istanbul, TR Department of Chemical Engineering 1984 - 1994

EDUCATION

PhD	Boğaziçi University, Istanbul, TR Department of Chemical Engineering 1988 – 1993
MSc	Boğaziçi University, Istanbul, TR Department of Chemical Engineering 1984 – 1987
BSc	Istanbul Technical University Istanbul, TR Department of Chemical Engineering 1979 - 1983

APPOINTMENT

Founder, General Manager	BacPolyZyme Biyomühendislik Ltd. Şti 2019
Vice Head of Department	Marmara University, Istanbul, TR Department of Bioengineering 2009 – 2012/2014 – 2019 Department of Chemical Engineering 2002 – 2006
Head of Department	Marmara University, Istanbul, TR Department of Bioengineering 2011 - 2014
Member of BAPKO Committee	Marmara University, Istanbul, TR 2014 – 2018
Vice Dean	Marmara University, Istanbul, TR Faculty of Engineering 2006 – 2009
Member of Faculty Committee	Marmara University, Istanbul, TR Faculty of Engineering 2002 – 2003/2006 – 2009
Member of Institute Committee	The Scientific and Technological Research Council of Turkey (TUBITAK), Kocaeli, TR, Genetic Engineering and Biotechnology Institute (GEBİ) 2000 -2001

PATENT

Mandacı, S., Seyhan, F., Öngen, G., Erarslan, A.A., Kazan, D., et al., "Production of xylanase enzyme for feed additives and methods for preparation of powder and coated form of the enzyme", TURKEY, Patent, Submission date: 2014/04579, January 2014, patent date: 22/04/2019

Kayaman, N., Kazan, D., Erarslan, A., Okay, O., Baysal, B., "Application Number: TR96 / 00295, Production of Temperature Sensitive Gel Beads for Concentrating Dilute solutions of Biological Materials" T.C. Turkish patent Institute, Acceptance date: 03/01/1997.

SELECTED PROJECTS

*Production of enzymatically synthesized biocompatible and biodegradable microbial polymers by sustainable and economical processes, KOSGEB, (**Project manager**), 2019-2021 (BacPolyZyme Bioengineering Ltd. Şti. was founded)*

*Synthesis of biodegradable HA-PHB carrier systems by click reactions and tissue engineering applications, FEN-B-170419-0120, (**Project manager**), 2019-2021*

Biomedical application of biopolymers from renewable sources, FEN-C-DRP-170118-0011 (Project manager), 2018-2020

*Production of Bio-similar Pharmaceuticals "TUBITAK-KAMAG-1007 Project" (**Project Manager**; In collaboration with İstanbul Technical University & with Zeynep Atabay/Atabay Pharmaceutical Company) , 2016-2020*

*Purification and characterization of lipase from Cryptococcus species isolated from Petroleum Sludge, FEN-C-YLP-141118-0594 (**Project manager**), 2018-2019*

*Production of biocellulose-PHB blend polymers and their applications in biomedical area, FEN-C-YLP-120417-0175 (**Project manager**), 2017-2018*

*Production of Poly(3-hydroxybutyrate) from Novel Bacillus marmarensis GMBE 72T isolated from mushroom compost: FEN-C-YLP-080715-0341(**Project Manager**), 2015-2016*

Projects before 2015

*Production of fermentable sugars by hydrolyses of hazelnut husk, TUBITAK: 113M053 (**Project Manager**)*

*Determination of lipid profiles of microalgae in order to determine biofuel productivity, - FEN-A-090512-0162. (**Project Manager**)*

*Formulation of alkaline protease for liquid detergent, KOSGEB. (**Consultant**)*

Using recycled protein waste for Oncorhynchus mykiss feed as an alternative protein source,

TUBITAK-TEYDEB. (Consultant)

Production of industrial enzymes intended for feed industry. TUBITAK:

KAMAG-107G246. (Researcher) (In collaboration with Prof Dr Burhan Arına, Prof Dr Sadık Dinçer and

Prof Dr Hatice Korkmaz Güvenmez/ Çukurova University; Prof Dr Gaye Öngen/Ege University; Assoc Prof Dr Sevnur Mandacı/ TUBITAK-MAM-GMBE)

Investigation of the kinetic parameters of Bacillus subtilis SDP1 amylase immobilized on magnetic alginate gels-FEN-D-280214-0047 (Project Manager)

Immobilization of lipase on magnetic-nano particles- FEN-C-YLP-060510-0142-(Project Manager)

Proteomic Investigation of the adaptation of Halomonas halophila DSMZ4770 at high salt concentration and low temperatures - FEN-D-040609-0179, (Project Manager)

Proteomic analysis of the metabolic pathways of halophilic microorganisms and flux analysis – FEN-C-DRP-181208-0286, (Project Manager)

Production of amylase enzyme from agricultural waste using Halomonas sp. isolated from Çamaltı Saltern Area FEN-YLS-290506-0115, (Project Manager)

Extremophiles as source of natural products useful for biotechnological applications: Studies of osmoregulation strategies by engineering tools. TUBITAK: TBAG-110T174. (Project Manager) (In collaboration with Assoc Prof Annarita Poli and Prof Barbara Nicolaus/ CNR-ITALY)

Proteomic Analyses of Kidney Transplantation Solutions . TUBITAK: SBAG-110S103. (Project Manager at

Marmara University) (In collaboration with Prof Dr Abdurrahman Coşkun/ Acıbadem University)

Establishment of Bioremediation Laboratory in the Bioengineering Department. Marmara University Research Fund Project, FEN-E.-. (Project Manager)

Production and characterization of phytase enzyme for animal feed. Marmara University Scientific Research Project: FEN-C-DRP-171108-0267. (Project Manager)

Establishment of Microbial resource Center Infrastructure for Enzyme Industry in Turkey. T.R. Prime Ministry State Planning Organisation (DPT), conducted at TUBTAK MRC, GEBl. (Project Manager)

Investigation of the effect of environmental conditions on newly isolated halophilic microorganisms by proteomics. TUBITAK: MAG 104M236. (Project Manager)

Production of alpha-amylase from Halomonas sp. isolated from Çamaltı Saltern Area by agricultural waste. Marmara University Scientific Research Project: FEN-YLS-290506-0115. (Project Manager)

Identification of archaea isolated from extreme environments in Turkey and extremozymes of these microorganisms. TUBITAK: TBAG 103T069. (Project Manager) (In collaboration with Dr Aziz Akan Denizci/TUBITAK-MRC-GEBI)

Stability, conformational characterization and biocatalytic applications of native and modified alkaline proteases purified from alkaliphilic Bacillus strains. conducted at TUBTAK-MRC, GEBI. TUBITAK: TBAG-U/123 (104T262).(Researcher) (in collaboration with Prof Francesco Secundo/CNR-Italy)

BIOCHIPBOARD (Fungal enzymes on the production of whitelined chipboard: technological and economic implications. conducted at TUBTAK-MRC, GEBI (In collaboration with Prof Candan Tamerler/ITÜ; Prof Tajelli Keshewards/University of Westminster, KARTONSAN). EUREKA: E2184. (Coordinator)

Isolation and identification of industrially important protein producing bacteria from local ecosystems. TUBITAK: GMBAE F990201. (Project Manager) conducted at TUBTAK-MRC, GEBI.

Identification of alkaline protease producing microorganisms from local ecosystems and production and purification of alkaline protease enzyme. Marmara University Scientific Research Project: BSE 073/131102. (Project Manager)

Traditional and modern solutions for lactose deficiency in Turkey: Production and development of lactase enzyme used in milk industry, YUUP-DPT (T.R. Prime Ministry State Planning Organisation BAP08-11-DPT 2005K120570. (Project Manager at Marmara University Site) (In collaboration with Prof Şebnem Harsa/ İzmir Institute of Technology)

Determination of anti-viral, anti-microbial and anti-oxidant activity of whey proteins and hydrolysates and determination of structural properties. TUBITAK: SBAG. (Project Manager at Marmara University Site)(In collaboration with Prof Süha Yalçın/Marmara University and Prof Nazlı Arda/İstanbul University)

Sub-Project 2.2 Penicillin Acylase Production in “Biotechnology-Establishment and Promotion of New Biotechnological Techniques in Turkey (NATO-TU BIOTECHNOLOGY)” NATO-SFS (TUBİTAK-MAMGMBAE) (Researcher) conducted at TUBTAK-MRC, GEBI.

BSc Projects (TUBITAK-2209)

*Production of 3D Scaffold by using biopolymer blend (Elif Nur AVCI and Tuğçe KORKMAZ)
TUBITAK-2209B, 2019*

*Effect of oxygen transfer on biopolymer production (Esmâ DERİN and Belkıs GÜNEŞ),
TUBITAK-2209A, 2019*

Projects before 2015

Investigation of the inactivation kinetics of Bacillus licheniformis BA17 alkaline protease at different pH values (Murat ÖZKAN, Chemical Engineering Department)

*Optimization of Phenol Removal using Halomonas sp. AAD12 (Fatma Ece ALTINIŞIK,
Bioengineering Department)*

BOOK CHAPTERS

Öztür, H.Ü., Uzyol, K.S., Denizci, A.A., Kazan, D., *Industrial Application of Microbial Amylases., Microbial Catalysis, Ed: Adcel-Aziz, A-M., Garg, N., Aeron, A., Jha, C.K., Nayak, S.C., Bajpai, V.K., Nova Publishers., SBN: 978-1-53614-679-0, Publication Date: April 2019*

Kazan, D., Akbulut, B.S., *Protein İzolasyonu ve Analizi (Protein Isolation and analysis), Ed: Türkeriü L.N., Özer, Aç, Narter, F., pp: 583-597., In Moleküler Üroloji, Pelin Ofset, Ankara. ISBN:978-975-01697*

Kazan, D., *'Endüstriyel Biyoteknoloji (Industrial Biotechnology)' in 'Moleküler Biyoteknoloji ve Uygulamaları (Molecular Biotechnology and Applications)' Ed: DüNDAR, M., Bağış, H., Ekim 2010 (ISBN: 9789756478639) Erciyes Üniversitesi Yayınları*

Kazan, D. *"Enzim Mühendisliği'nde Temel Konular ve Uygulamalar (Basic Techniques and Applications in Enzyme Enzineering)" Lisans Üstü Yaz Okulu Kurs Kitabı "*

Kazan, D. *"Enzimlerin Saflaştırılması ve Nitelendirilmesinde Temel Yöntemler (Basic Techniques for Enzyme Purification and Characterization) " Lisans Üstü Uygulamalı Kursu, Kurs Kitabı*

Kazan, D. *"İmmobilize Enzimler ve Uygulamaları (Imobilized Enzymes and Applications)" Lisans Üstü Eğitim Kursu Kurs Kitabı"*

PUBLICATIONS

Pinar, O., Bozdağ, B., Yemiser, I., Büyük, E., Kazan, D. (2020) Complete genome sequence of a cellulose-producing bacteria *Komagataeibacter oboediens* BPZTR01, *Genetics and Applications*,4:1, 77-79

Isikci-Koca, E., Bozdağ, G., Cayli, G., Kazan, D., Cakir-Hatir, P., (2020) Thermoresponsive Hydrogels based on Renewable Resources, *Journal of Applied Polymer Science*, Article ID: APP48861 Article DOI: 10.1002/app.48861 Internal Article ID: 16643083

Ecem Kaplan, Nihat Alpagan Sayar, Dilek Kazan & Ahmet Alp Sayar (2020) Assessment of different carbon and salinity level on growth kinetics, lipid, and starch composition of *Chlorella vulgaris* SAG 211-12, *International Journal of Green Energy*, 17:4, 290-300, DOI: 10.1080/15435075.2020.1727480

Unal, S., Arslan, S., Karademir-Yılmaz, B., Kazan, D., Oktar, F.N., Gunduz, F., (2020) Glioblastoma cell adhesion properties through bacterial cellulose nanocrystals in polycaprolactone/gelatin electrospun nanofibers, *Carbohydrate Polymers*, 233,115820, <https://doi.org/10.1016/j.carbpol.2019.115820>

Sayar, N.A., Durmaz-Şam, S., Pinar, O., Serper, D., Sarıyar-Akbulut, S., Kazan, D., Sayar, A.A., (2019) Techno-economic analysis of caffeine and catechins production from black tea waste, *Food and Bioproducts Processing*, 118, 1-12

Özgören, T., Pinar, O., Bozdağ, G., Denizci, A.A., Gündüz, O., Çakır Hatır, P., Kazan, D., (2018) Assessment of poly(3-hydroxybutyrate) synthesis from a novel obligate alkaliphilic *Bacillus*

marmarensis and generation of its composite scaffold via electrospinningç, *Int. J. Biol. Macromol.* 2018, doi:10.1016/j.jbiomac.2018.08.014.

Sayar, N.A., Kazan, D., Pinar, O., Sariyar Akbulut, B., Sayar, A.A., (2018) Retro-techno-economic evaluation of acetic acid production using cotton stalk as feedstock *Journal of Material Cycles and Waste Management* (2018) 20:2077–2088, <https://doi.org/10.1007/s10163-018-0762-1>

Altinisik Kaya, F.E., Avci, F.G., Sayar, N.A., Kazan, D., Sayar, A.A., Sariyar Akbulut, B., (2018) What Are the Multi-Omics Mechanisms for Adaptation by Microorganisms to High Alkalinity? A Transcriptomic and Proteomic Study of a *Bacillus* Strain with Industrial Potential., *OMICS A Journal of Integrative Biology*, 22, Number 11, DOI: 10.1089/omi.2018.0127

Coskun, A., Baykal, T.A., Oztug, M., Kazan, D., Kaya, E., et al. (2018) Proteomic Analysis of Liver Preservation Solutions Prior to Liver Transplantation., *Current Proteomics.*, DOI : [10.2174/1570164615666180905104543](https://doi.org/10.2174/1570164615666180905104543)

Oktar, F.N., Su, S., Ozbek, B., Yücel, S., Kazan, D., Gündüz, O., (2018) "Production and Characterization of Whey Protein Concentrate (WPC) Based Nano-Fibers", *Materials Science Forum*, Vol. 923, pp. 47-50, 2018

Sayar, N.A., Pinar, O., Kazan, D. Sayar, A.A. (2017) Bioethanol Production From Turkish Hazelnut Husk Process Design and Economic Evaluation., *Waste Biomass Valorization.* <https://doi.org/10.1007/s12649-017-0103-y>

Pinar, O., Karaosmanoğlu, K., Sayar, N.A. Kula. C., Kazan, D., Sayar, A.A. (2017). Assessment of hazelnut husk as a lignocellulosic feedstock for the production of fermentable sugars and lignocellulolytic enzymes., *3 Biotech*, 7: 367. <https://doi.org/10.1007/s13205-017-1002-4>

Sahin, Y.M., Su, S., Ozbek, B., Yücel, S., Pinar, O., Kazan, D., Oktar, F.N., Ekren, N., Gunduz, O. (2017) Production and characterization of electrospun fish sarcoplasmic protein based nanofibers. *Journal of food engineering.* <https://doi.org/10.1016/j.jfoodeng.2017.11.013>

Dilara Ayyildiz, Kazim Yalcin Arga, Fatma Gizem Avci, Fatma Ece Altinisik, Caglayan Gurer, Gizem Gulsoy Toplan, Dilek Kazan, Katharina Wozny, Britta Brügger, Bulent Mertoglu, Berna Sariyar Akbulut (2017). Transcriptomic analysis displays the effect of (-)-roemerine on the motility and nutrient uptake in *Escherichia coli*. *Curr Genet.* DOI 10.1007/s00294-016-0673-4

Nilay Budeyri Gokgoz, Fatma Gizem Avci, Kubra Karaosmanoglu Yoneten, Begum Alaybeyoglu, Elif Ozkirimli, Nihat Alpogu Sayar, Dilek Kazan, and Berna Sariyar Akbulut (2016). Response of *Escherichia coli* to Prolonged Berberine Exposure. *Microbial Drug Resistance.* DOI: 10.1089/mdr.2016.0063

Coskun, A., Baykal, A.T., Kazan, D., et al. Proteomic Analysis of Kidney Preservation Solutions Prior to Renal Transplantation (2016). *PLOS ONE*, accepted for publication.

Kori, M, Aydın, B., Unal, S., Arga, K.Y., Kazan, D., (2016) Metabolic Biomarkers and

Neurodegeneration: A Pathway Enrichment Analysis of Alzheimer's Disease, Parkinson's Disease, and Amyotrophic Lateral Sclerosis, OMICS A Journal of Integrative Biology, 20 (11), DOI: 10.1089/omi.2016.0106

Bal, E., Pinar, O., Kazan, D., Ozturk, H.U., Sayar, A.A., (2016) Immobilization of alpha-amylase from Bacillus subtilis SDP1 isolated from the Rhizosphere of Acacia cyanophila Lindey, Electronic Journal of Biology, 12:2, 115-121.

Ceylan,S.,Kazan,D., (2015) Pyrolysis kinetics and thermal characteristics of microalgae Nannochloropsis oculata and Tetraselmis sp., Bioresource Technology. 187, 7 / 2015, 10.1016/j.biortech.2015.03.081

Öztürk, H.U. , Sariyar Akbulut, B. , Ayan, B. , Poli, A. , Denizci, A.A. , Utkan, G. , Nicolaus, B., Kazan, D. (2015) Moderately Halophilic Bacterium Halomonas sp. AAD12: A Promising Candidate as a Hydroxyectoine Producer. J Microb Biochem Technol., 7, 262-268, <http://dx.doi.org/10.4172/19485948.1000222>

Dilgimen, A.S., Arga, K.Y., Erdmann, V.A., Wittmann-Liebold, B., Denizci, A.A. and Kazan, D. (2014) Comparison of Protein Expression Profiles of Novel Halomonas smyrnensis AAD6T and Halomonas salina DSMZ 5928T. Natural Science, 6, 628-640. <http://dx.doi.org/10.4236/ns.2014.69062>

Sayar, N.A., Durmaz-Sam, S., Kazan, D., Sayar, A.A., (2014) Schizosaccharomyces pombe and its Ni(II)-insensitive mutant GAI in Ni(II) uptake from aqueous solutions: a biodynamic model, Appl Microbiol Biotechnol, DOI 10.1007/s00253-014-5740-5

Duman, Y., Kazan, D., Denizci, A.A., Erarslan, A., (2014) Water Miscible Mono Alcohols' Effect on the Proteolytic Performance of Bacillus clausii Serine Alkaline Protease, Appl Biochem Biotechnol, 172, 469-486, DOI 10.1007/s12010-013-0525-3

Poli, A., Nicolaus, B., Denizci, A.A., Yavuzturk, B., Kazan, D., (2013) Halomonas smyrnensis sp. nov., a moderately halophilic, exopolysaccharide-producing bacterium from Çamaltı Saltern Area, Turkey Int J Syst Evol Microbiol, 63, 10-18 ijs.0.037036-0; doi: 10.1099/ijs.0.037036-0

Öztürk, N.C., Kazan, D., Denizci, A.A., Erarslan, A., (2012) The influence of copper on alkaline protease stability toward autolysis and thermal inactivation, Eng. Life Sci., 12, No. 5, 1–10 1

Ceylan, S., Yilan, G., Sariyar-Akbulut, B., Kazan, D., (2012) Interplay of adaptive capabilities of halomonas sp. AAD12 under salt stress. J. Bioscience and Bioeng. doi: 10.1016/j.jbiosc.2012.02.030.

Uzyol K.S., Sariyar-Akbulut, B., Denizci, A.A., Kazan, D., (2012) Thermostable alpha amylase from moderately halophilic Halomonas sp. AAD21. Turk. J. Biol., doi:10.3906/biy-1106-7.

Ceylan,S., Sariyar-Akbulut, B., Denizci, A.A., Kazan, D., (2011) Proteomic insight into phenolic adaptation of a moderately halophilic Halomonas sp. Strain AAD12. Can. J. Microbiol., 57: 295-302

Ozbalci, C., Unsal, C.,Kazan, D., Sariyar-Akbulut, B., (2010) *Proteomic Responses of Esherichia coli to the alkaloid extract of Papaver polychaetum*. *Ann Microbiol*, 60: 709-717

Denizci A.A., Kazan D., Erarslan .A., (2009) *Bacillus marmarensis sp. nov., an alkaliphilic, proteaseproducing bacterium isolated from mushroom compost.*, *IJSEM.*, doi:ijs.0.012369-0

Oturk, D., Kazan, D., Denizci, A.A., Grimoldi, D., Secundo, F., Erarslan, A., (2009) *Water Miscible Mono Alcohols Effect on the Structural Conformation of Bacillus clausii GMBAE 42 Serine Alkaline Protease*,*Journal of Molecular Catalysis B: Enzymatic* [doi:10.1016/j.molcatb.2009.02.017](https://doi.org/10.1016/j.molcatb.2009.02.017)

Öztürk, S., Morgan-Özeren, M., Salman-Dilgimen,A., Denizci, A.A.,S Arıkan, B., Kazan, D., (2009) *Alkaline serine protease from halotolerant Bacillus licheniformis BA17*, *Annals Microbiology*, 59 (1) 1-8

Kazan D., Bal H., Denizci A.A., Ozturk N.C., Ozturk U., Dilgimen A.S., Ozturk D.C., Erarslan .A., *STUDIES ON ALKALINE SERINE PROTEASE PRODUCEDBY Bacillus clausii GMBE 22*, *Preparative Biochemistry and Biotechnology*, Accepted for publication, ISSN: 1082-6068 print/1532-2297 online, DOI: 10.1080/10826060902953269

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Yagız, F., Kazan, D., Akin, N.A., *Biodiesel production from waste oils by using lipase immobilized on hydrotalcite and zeolites*, *Chemical Engineering Journal Volume 134, Issues 1-3, 1 November 2007*, Pages 262-267

Ates, O., Toksoy Oner, E., Arıkan, B., Denizci, A.A., Kazan, D., (2007) *Isolation And Identification Of Alkaline Protease Producer Halotolerant Bacillus licheniformis Strain BA17*, *Annals Microbiology*, 57 (3),369-375

Kazan, D., Denizci, A., Kerimak, Ö.M.N., Erarslan, A., “*Purification and characterization of a serine alkaline protease from Bacillus clausii GMBAE42*” *J.Ind. Microbiol Biotechnology*, 32, 335-344 (2005)

Denizci, A., Kazan, D., Abeln, E. C. A., Erarslan, A., *Newly isolated Bacillus clausii GMBAE42: an alkaline protease producer capable to grow under highly alkaline conditions*”, *Applied Microbiology and Biotechnology*, *Journal of Applied Microbiology*,96, 320-327 (2004)

Cokuner Öztürk, D., Kazan, D., Erarslan, A., *Stabilization and functional properties of Esherichia coli penicillin G acylase by cocalent conjugation of anionic polisaccharide carboxymethylcellulase*, *World Journal of Microbiology and Biotechnology*,18, 881-888(2002)

Ercelen, S., Kazan, D., Erarslan, A., Demchenko, A.P., *On the excited-state energy transfer between tryptophan residues in proteins: the case of penicillin acylase*, *Biophysical Chemistry*, 90, 203-217 (2001)

Kazan, D., Erarslan, A., *The identification of catalytically essential amino acid residues of penicillin G acylase obtained from a mutant of Escherichia coli ATCC 11105*, *Process Biochemistry*, 36, 861-867, (2001)

Kazan, D., Erarslan, A., *Effect of dextrans polymers on the stability of soluble Escherichia coli penicillin G acylase.*, *J. Chem. Tech. Biotech.*, 74, 1157-1164, (1999)

Kayaman, N., Kazan, D., Erarslan, A., Okay, O., *Structure and protein separation efficiency of poly(Nisopropylacrylamide) gels: Effect of synthesis conditions.*, *J. Appl. Polymer Sci.*, 67, 805-814, (1998).

Kazan, D., Ertan, H., Erarslan, A., *Stabilization of Escherichia coli penicillin G acylase against thermal inactivation by cross-linking with dextran-dialdehyde polymers.*, *Appl. Microbiol. Biotechnol.*, 48, 1911-1917, (1997).

Ertan, H., Kazan, D., Erarslan, A., *Cross-linked stabilization of Escherichia coli penicillin G acylase against pH by dextran-dialdehyde polymers.*, *Biotechnology Techniques*, 11, 225-229, (1997).

Kazan, D., Erarslan, A., *Stabilization of Escherichia coli penicillin G acylase by polyethylene glycols against thermal inactivation.*, *Appl. Biochem. Biotechnol.*, 62, 1-13, (1997).

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Kazan, D., Çamurdan, A., and Hortaçsu, A., *The Effect of Glucose Concentration on the Growth Rate and some Intracellular Components of a Recombinant Escherichia coli Culture.*, *Process Biochemistry*, 30, 269-273, (1995)

OTHER PUBLICATIONS

Coskuner Ozturk, D., Erarslan' A., Kazan, D. "Escherichia coli penislin asilazının CMC konjugasyonu ile pH stabilizasyonu" *İTÜ Dergisi, Fen Bilimleri*, 1, 3-10, 2002

Kazan, D., Ceylan, S., Unal, S., Sayar, A.A., "Tarımsal Atıklardan Biyoetanol Üretimi" *Biyoyakıt Dünyası, Sayı:1*, 73-74, 2006

PRESENTATIONS AT INTERNATIONAL CONFERENCES

Isicki-Koca, E., Bozdog, G., Cayli, G., Kazan, D., Cakir-Hatir, P , Investigation of Biocompatibility of Castor Oil and Bacterial Cellulose Based Thermoresponsive Hydrogels, "EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, October 26-29, 2019, Antalya, Turkey, Abstract Book 79, Oral presentation,

Koca-Işikci, E., Bozdog, G., Cayli, G., Kazan, D., Çakır-Hatır, P., Synthesis and characterization of castor oil and bacterial cellulose based thermoresponsive hydrogels , 2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), 28-29 June 2019, Ankara, TURKEY

Altınışik F. E. , Arğa K. Y. , Kazan D. , Sarıyar Akbulut B, Understanding the metabolic reprogramming behind alkaliphilic adaptation in Bacillus marmarensis through a multi-omics data integration strategy, 44th FEBS Congress: From molecules to living systems, Krakow, Polonya, 6 - 11 Temmuz 2019

Büyük, E., Tansel-Yalçın, H, Pinar, O., Kazan, D., Purification and Characterization of Lipase Produced by Cryptococcus Strain Isolated From Petroleum Sludge: Assessment of its Application in Industry Area., 2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), 28-29 June 2019, Ankara, TURKEY

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Coşkun-Öztürk, D., Kazan, D., Erarşlan, A., *Kimyasal Modifikasyonlar ile Penisilin Asilaz Enziminin Stabilizasyonu.*, 12. Biyoteknoloji Kongresi. 17-21 Eylül 2001 Ayvalık – Balıkesir

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Kazan, D., Erarşlan, A., *Escherichia coli ATCC 11105 Mutant suştan elde edilen Penisilin G asilazın Aktif Merkezinde Bulunan Katalizden Sorumlu Amino Asitlerin Belirlenmesi*, IX. Biyofizik Kongresi, İstanbul, 10-12 Eylül 1998.

Kazan, D., Erarşlan, A., *Escherichia coli* ATCC 11105'ten elde edilen Penisilin G asilaz enziminin polietilen glikol varlığında ısı kararlılığının incelenmesi, (Poster) IX. Ulusal Biyofizik Kongresi, 5-6 Eylül 1997, ODTÜ, Ankara.

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Kazan, D., Hortaçsu, A., Çamurdan, A., Glikoz Konsantrasyonunun Rekombinant *E.coli* Kültürlerinin Büyümesine ve Plazmid Miktarına Etkisinin Modellenmesi, Birinci Ulusal Kimya Mühendisliği Kongresi, Ankara, 13-16 Eylül, 1994

Kazan, D., Hortaçsu, A., Çamurdan, A., Rekombinant *E.coli* kültürleri ile enzim üretiminin kinetik özelliklerinin incelenmesi, VIII Kimya ve Kimya Mühendisliği Sempozyumu, 7-11 Eylül 1992, İstanbul

Kazan, D., Hortaçsu, A., İki Kademeli Sürekli Kültür Sisteminde Fermentasyon Ürünlerinin Optimizasyonu., VII Kimya ve Kimya Mühendisliği Sempozyumu, 2-5 Nisan 1991, Kıbrıs

Aksak, N., Kazan, D., Hortaçsu, Ö., Karıştırmalı Kaplarda Newtonsal ve Newtonsal Olmayan Ortamlarda Gaz-Sıvı Kütle Aktarımı., VII Kimya ve Kimya Mühendisliği Sempozyumu, 2-5 Nisan 1991, Kıbrıs

SUPERVISIONS

MSc Thesis

- Fermentation of Enzymatically Saccharified Agricultural Residue for Ethanol Production (Selim Ceylan)
- Isolation and Identification of Extremophiles Isolated from Camalti Saltern Area (Bahar Yavuzturk)
 - Purification and Characterization of Alkaline Protease produced by *Bacillus* sp. Isolated from Local Ecosystems (Selcuk Ozturk)
- Production and purification of RTEM-e beta-lactamase and Its Inhibition by peptides (Naze Gul Avcı' Co-advisor)
- Investigation of the effect of Antimicrobial Agents on Microorganisms (Çağakan Özbacı, Coadvisor)
- Amylolytic Enzyme Production from a Moderately Halophilic Bacteria by Using Agricultural Waste (Kamil Serkan Uzyol)
- Investigation of The Kinetics of *Bacillus subtilis* SDP1 alpha amylase immobilized on Magnetic Alginate Beads (Eda Bal)
- Production of Polyhydroxyalkalonnate from Extreme Obligate Alkaliphilic Strain *Bacillus marmarensis* GMBE 72^T isolated from Mushroom Compost (Tugba Ozgoren)

- Production of Cellulosic and Polyhydroxybutyrate Based Polymers and Applications in Tissue Engineering (Gülnihal Bozdağ)
- Small Scale Bioprocess Development and Immobilization of Lipase from *Cryptococcus albidus* (Abdussamed Uras)
- Purification and Characterization of Lipase Produced by *Cryptococcus species* isolated from Petroleum Sludge and Investigation its Usage in Pharmaceutical Industry (Esra Büyük)
- Development and Optimization of Purification Processes for Hyaluronic acid (Özge Buldağ)
- Development of Bacterial Cellulose and PLGS Blend for Skin Diseases (Fulya Çalman)
- Synthesis and characterization of biodegradable HA-PHB carrier systems by click reactions for tissue engineering applications (Berken Açıkgöz, Co-advisor)
- Synthesis of Biodegradable Bacterial Cellulose-Hyaluronic Acid Scaffold by Click Reactions (Şeyma Turan, Co-advisor)
- Development of lateral flow assay that immobilize VEGF-A/PD-L1 proteins (Ali Mişe)

PhD Thesis

- Isolation and Identification of Industrially Important Protein Producing Bacteria from Local Ecosystems and Screening of Their Proteins (Hülya Bal)
- Proteomic Study and Flux Analysis of Metabolic Pathways of Halophilic Microorganisms (Selim Ceylan)
- Investigation of the Industrial Enzymes Produced by *Bacillus* sp Isolated from Acacia Tree (Hasan Ümit ÖZTÜRK)
- Catalytic Cracking of Waste Cooking Oil Using Low Cost Catalysts (Kamil Serkan Uzyol)
- Production of Polymeric Nanomaterials from Renewable Sources for Biomedical Applications (Elif Işıklı Koca)
- Optimization of poly(3-hydroxybutyrate) production from a novel obligate alkaliphilic *B. marmarensis* (Yağmur Atakav)

COURSES AND WORKSHOPS

A. Organised

- From Network to Targets: Workshop on Omics Technologies and Applications, 7-9 July 2017
- III.BIOENGINEERING STUDENT CONGRESS, 12-13 March 2015
- Introduction to Proteomics II, 1-5 September 2008
- Introduction to Proteomics I, 24-27 April 2007
- Meetings on Identification of Food Microbiology, M.Ü. Eng. Faculty. 30 September 2005 ➤ Mass Spectrometer and Proteomics Workshop, M.Ü. Eng. Faculty. 16-18 August 2004
- Enzyme Immobilization and Applications, TUBITAK-MAM-GMBAE, 12-16 July 1999
- Basic techniques for Enzyme Purification and Characterization, TUBITAK-MAM-GMBAE, Between 1998-2009 every year
- *Basic Principles and Applications in Enzyme Engineering*, TUBITAK-MAM-GMBAE, 13 - 19 July, 1997

B. Invited

- Bioengineering Days., Yıldız Technical University., 2018
- Purification and Immobilization of Enzymes, 6th April 2014, II Bioengineering and Genetic Days, Yeditepe University, İstanbul
- Conversion of Lignocellulosic Materials to Fermentable Sugars, 16th March 2014, Ege University, II. Bioengineering Student Congress, İzmir; 17th March 2014, Energy Days, KMMO Student Days, Marmara University
- Proteom Technologies for Drug Development, 16-17 Mach 2013, KMMO Student Days, İTÜ
 - Metabolomics: Proteomİstanbul, İstanbul University, Molecular Biology and Genetic Department, 15-17 July 2013
- Metabolomics: Proteomİstanbul, İstanbul University, Molecular Biology and Genetic Department, 12-17 July 2010
- Biotechnological Applications and potentialities of moderately halophilic bacteria ○ Turkish-German Workshop on Biotechnology and Bioengineering, 21-22 September, 2010, Aachen, Germany
- Introduction to Proteomics.
- Proteomic Arařtırmaları: Temel Bilgiler ve Uygulamalı Örnekleri, 10-11 December 2009, İstanbul
- BIOTECHNOLOGICAL APPLICATIONS AND POTENTIAL OF MODERATELY HALOPHILIC BACTERIA, İstanbul Technical University, Molecular Biology and Genetic Department, 2009
- Biohydrogen Production and Industrial Applications, 14-15 April 2005, TÜBİTAK, GMBAE
 - Gene Cloning and Expression in Procaryotic Systems, 2-13 July 2001 , 3-14 July 2000, and 516 October 1998, TÜBİTAK, GMBAE
- Molecular Biology Course, 28 June-09 July 1999, TÜBİTAK, GMBAE

C. Attended

DATE	NAME OF THE COURSES
02-03 May 2001	Marketing Analysis, TÜSSİDE
05-06 April 2001	Customer Relations and Sales Techniques, TÜSSİDE
16-18 May 2001	Project Management Course, S&Q Mart
06-09 March 2000	“Biotechnology and Technology” (Production of Fungal Enzymes) British Council-Ege University İzmir-Turkey
08-10 January 1999	Business Excellence Model, TÜSİAD-KALDER
12 December 1996	<i>Time Management, Kogem, Arçelik</i>
11 December 1996	Teamwork and Leadership, <i>Kogem, Arçelik</i>
10 December 1996	<i>Total Quality Management, Kogem, Arçelik</i>
25-26 December 1996	<i>Project Management and Techniques, Kogem, Arçelik</i>
26-28 September 1996	VIII National Biophysic Congress, “ Applied Course for Molecular Biophysic and Biotechnological Applications”, Kocaeli-Turkey
10-14 July 1995	Program of The European Communities (MED Campus), “Down Stream Processes in Biotechnology”,
16-27 September 1991	NATO Advanced Study Institute on "Recent Advances in Biotechnology", Kuşadası, Turkey

TEACHING RESPONSIBILITIES

Undergraduate Courses

General Chemistry
Basic Principles in Chemical Engineering
Introduction to Biochemical Engineering
Chemical Kinetics
Bioengineering Principles
Bioreaction Engineering
Bioprocess Design I
Bioprocess Design II

Graduate Courses

Reaction Kinetics and Mass Transfer
Enzyme Kinetics
Principles in Biotechnology
Molecular Techniques Used for Identification of Microorganisms
Enzyme and Fermentation Technology
Proteomics and Mass Spectrometer
Metabolomics
Enzyme Technology

AWARDS

1. Best poster award : Coskun, A., Kazan, D., Akgöz, M., Berber, İ., Yazıcı, C., Bilsel, G., Karaosmanoglu, K., Sahin, J., Proteomics Profiling of Preservation Solution Prior to Renal Transplantation ‘5th Central and Eastern European Proteomic Conference, Prag, 19-21 September 2011,
2. Production of Industrial Enzymes for Feed Industry (YEM-EN)” TARAL 1007 Project, 2013 TÜBİTAK Marmara Research Center, within the scope of Research and Development, Technology Development Award.
3. Support Award from Marmara Üiversity Scientific Research Project Unit
4. “Production of Bioethanol from Lignocellulosic Waste: From husk to bioethanol” Research Award from AlbioBir