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Kişisel Bilgiler

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Biyografi

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.

Eğitim Bilgileri

Doktora, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), Türkiye 1987 - 1993

Yüksek Lisans, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), Türkiye 1984 - 1987

Lisans, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Türkiye 1979 - 1983

Sertifika, Kurs ve Eğitimler

Kalite Yönetimi, Project Management Course, , S&Q Mart, 2001

Kalite Yönetimi, Marketing Analysis, , TUSSIDE, 2001

Kalite Yönetimi, Customer Relations and Sales Techniques, , TUSSIDE, 2001

Mesleki Eğitim, "Biotechnology and Technology" (Production of Fungal Enzymes) , Ege Üniversitesi, 2000

Kalite Yönetimi, Business Excellence Model, TUSIAD-KALDER, 1999

Kalite Yönetimi, Project Management and Techniques, Kogem, Arçelik, 1996

Kalite Yönetimi, Total Quality Management, Teamwork and Leadership, Teamwork and Leadership,, Kogem, Arçelik, 1996

Yaptığı Tezler

Doktora, Kinetic modelling of the effect of glucose concentration on the growth of recombinant E coli culture and on B-

lactamase activity, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, 1993

Yüksek Lisans, A Study of oxygen transfer in the fermentation of E. coli, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, 1987

Araştırma Alanları

Sağlık Bilimleri, Tarımsal Bilimler, Temel Bilimler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof.Dr., Marmara Üniversitesi, Mühendislik Fakültesi, Biyomühendislik Bölümü, 2001 - Devam Ediyor

Doç.Dr., Marmara Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2001 - 2004

Araştırma Görevlisi, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 1984 - 1993

Mesleki Deneyim

Bölüm Başkan Yardımcısı, Marmara Üniversitesi, Mühendislik Fakültesi, Biyomühendislik Bölümü, 2014 - 2019

Bölüm Başkanı, Marmara Üniversitesi, Mühendislik Fakültesi, Biyomühendislik Bölümü, 2011 - 2014

Dekan Yardımcısı, Marmara Üniversitesi, Mühendislik Fakültesi, 2006 - 2009

Bölüm Başkan Yardımcısı, Marmara Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2002 - 2006

Verdiği Dersler

Bioprocess Design II, Lisans, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020

Yönetilen Tezler

Kazan D., Development of cellulose and polyhydroxybutyrate (PHB)-based materials and tissue engineering applications, Yüksek Lisans, G.BOZDAĞ(Öğrenci), 2019

Kazan D., Catalytic cracking of waste cooking oils using low cost catalysts, Doktora, K.SERKAN(Öğrenci), 2019

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Investigation of the physiology of the obligate alkaliphilic bacillus marmarensis gmbe 72t considering its alkaline adaptation mechanism for poly(3-hydroxybutyrate) synthesis**
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- II. **Thermoresponsive hydrogels based on renewable resources**
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- III. **Glioblastoma cell adhesion properties through bacterial cellulose nanocrystals in polycaprolactone/gelatin electrospun nanofibers**
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CARBOHYDRATE POLYMERS, cilt.233, 2020 (SCI İndekslerine Giren Dergi)

- IV. **Assessment of different carbon and salinity level on growth kinetics, lipid, and starch composition of *Chlorella vulgaris* SAG 211-12**
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INTERNATIONAL JOURNAL OF GREEN ENERGY, cilt.17, sa.4, ss.290-300, 2020 (SCI İndekslerine Giren Dergi)
- V. **Techno-economic analysis of caffeine and catechins production from black tea waste**
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- VI. **Lipase production from *Cryptococcus albidus* D24 using disposed automotive oil**
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- VII. **Development of a promising electrospun bacterial cellulose-PHB scaffold for tissue engineering**
Bozdogan G., Zgren T., Pinar O., Gndz O., Kazan D.
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- VIII. **Proteomic response of *Escherichia coli* to the alkaloid extract of *Papaver polychaetum***
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- IX. **Biodiesel production from waste oils by using lipase immobilized on hydrotalcite and zeolites**
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- X. **Purification and characterization of a serine alkaline protease from *Bacillus clausii* GMBAE 42**
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- XI. **Newly isolated *Bacillus clausii* GMBAE 42: an alkaline protease producer capable to grow under highly alkaline conditions**
Denizci A., Kazan D., Abeln E., Erarslan A.
JOURNAL OF APPLIED MICROBIOLOGY, cilt.96, sa.2, ss.320-327, 2004 (SCI İndekslerine Giren Dergi)
- XII. **Stabilization and functional properties of *Escherichia coli* penicillin G acylase by covalent conjugation of anionic polysaccharide carboxymethylcellulose**
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WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, cilt.18, sa.9, ss.881-888, 2002 (SCI İndekslerine Giren Dergi)
- XIII. **On the excited-state energy transfer between tryptophan residues in proteins: the case of penicillin acylase**
Ercelen S., Kazan D., Erarslan A., Demchenko A.
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- XVI. **Structure and protein separation efficiency of poly(N-isopropylacrylamide) gels: Effect of synthesis conditions**
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- XVII. **Stabilization of *Escherichia coli* penicillin G acylase against thermal inactivation by cross-linking with dextran dialdehyde polymers**

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- XX. **Influence of polyhydric compounds on the pH stability of penicillin G acylase obtained from a mutant of Escherichia coli ATCC 11105**
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- XXII. **THE EFFECT OF GLUCOSE-CONCENTRATION ON THE GROWTH-RATE AND SOME INTRACELLULAR COMPONENTS OF A RECOMBINANT ESCHERICHIA-COLI CULTURE**
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- I. **Complete Genome Sequence of a cellulose-producing bacteria Komagataeibacter oboediens BPZTR01**
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- II. **Immobilization of amylase from Bacillus subtilis SDP1 isolated from the Rhizosphere of Acacia cyanophylla Lindey**
Bal E., PİNAR O., KAZAN D., Öztürk H. Ü., SAYAR A. A.
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- III. **Comparison of Protein Expression Profiles of Novel It i gt Halomonas smyrnensis It i gt AAD6 It sup gt T It sup gt and It i gt Halomonas salina It i gt DSMZ 5928 It sup gt T It sup gt**
ARĞA K. Y., KAZAN D., Dilgimen A., Erdmann V., WittmannLiebold B., Denizci A. A.
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Kitap & Kitap Bölümleri

- I. **Industrial Application of Microbial Amylases**
Öztürk H. U., Uzyol K. S., Denizci A. A., Kazan D.
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- II. **Güncel Biyoteknoloji ve Uygulamaları**
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- III. **Bölüm 14: Endüstriyel Biyoteknoloji ve Biyoyakıtlar**
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Sarıyar Akbulut B., Kazan D.

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- I. **Purification and Characterization of Sugar Ester Producing Lipase from *Cryptococcus diffluens* D44**
BÜYÜK E., PİNAR O., YALÇIN H. T. , Atabay Taşkent Z., ÖZALP Y., KAZAN D., Taşkent D.
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- II. **A New Bio-Cellulose Based Lateral Flow Assay Design For Commercial Protein Detection**
Mişe A., PİNAR O., KAZAN D.
International Marmara Sciences Congress (Spring 2020), 19 - 20 Temmuz 2020
- III. **Investigation of Biocompatibility of Castor Oil and Bacterial Cellulose Based Thermoresponsive Hydrogels**
IŞIKÇI KOCA E., Bozdağ G., YALÇIN ÇAPAN Ö., ÇAYLI G., KAZAN D., ÇAKIR HATIR P.
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- IV. **Synthesis and characterization of castor oil and bacterial cellulose based thermoresponsive hydrogels**
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- V. **Understanding the metabolic reprogramming behind alkaliphilic adaptation in *Bacillus marmarensis* through a multi-omics data integration strategy**
Altınışık F. E. , Arğa K. Y. , Kazan D., Sarıyar Akbulut B.
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- VI. **Purification and characterization of lipase produced by *Cryptococcus* strain isolated from petroleum sludge: Assessment of its application in industry area**
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- VIII. **Lipase production from *Cryptococcus albidus* D24 using disposed automotive oil**
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- IX. **Mikroorganizma Kaynak Merkezleri ve Ülkemiz için Önemi**
KAZAN D.
VI. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Türkiye, 5 - 07 Ekim 2017
- X. **Growth Medium Optimization of *Cryptococcus albidus* D24 lipase by statistical design of experiments**
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- XI. **Growth medium optimization of *Cryptococcus albidus* D24 lipase by statistical design of experiments**
Uras A., Pinar O., Sayar N. A. , Kazan D., Sayar A. A.
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- XII. **Adaptation of *B. Marmarensis* Sp Nov To Extreme Alkaline Conditions**

Altinisik F. E. , KAZAN D., SARIYAR AKBULUT B.

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- XIII. **Production of laccase and cellulases by pycnoporus sanguineus (dmsz 3024) using hazelnut husk**
Yılmaz Serçinoğlu Z., Sayar N. A. , Kazan D.
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- XIV. **Utilization of PHB from Bacillus marmarensis GMBE 72T DSMZ21297 as scaffold**
ÖZGÖREN T., Bozdağ G., Şirin B., Çimenoğlu Ç., PİNAR O., Denizci A. A. , KAZAN D.
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- XV. **Understanding alkaliphilic adaptation of B marmarensis sp nov**
ALTINIŞIK F. E. , AVCI F. G. , DENİZCİ A. A. , KAZAN D., SARIYAR AKBULUT B.
THE 41TH FEBS, 3 - 08 Eylül 2016
- XVI. **PHB kaynağı Bacillus marmarensis GMBE 72T DSM 21297**
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VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Türkiye, 4 - 07 Eylül 2016
- XVII. **Poli 3 hidroksibütirat kaynağı Bacillus marmarensis GMBE 72T DSM 21297**
ÖZGÖREN T., PİNAR O., Bozdağ G., Denizci A. A. , Utkan G., KAZAN D.
VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Ankara, Türkiye, 4 - 07 Eylül 2016
- XVIII. **Utilisation of poly 3 hydroxybutyrate from Bacillus marmarensis GMBE 72T DSM21297 as scaffold**
ÖZGÖREN T., Şirin B., Çimenoğlu Ç., PİNAR O., DENİZCİ A. A. , KAZAN D.
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- XIX. **Understanding alkaliphilic adaptation of B. marmarensis sp nov.**
Altinisik F. E. , Avcı F. G. , Denizci A. A. , Kazan D., Akbulut B. S.
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- XX. **Immobilization of Cryptococcus albidus D24 lipase for enzymatic esterification**
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- XXI. **Utilisation of poly(3-hydroxybutyrate) from Bacillus marmarensis GMBE 72T (DSM21297) as scaffold**
Ozgoren T., Bozdağ G., Sirin B., Cimenoglu C., Pinar O., Denizci A. A. , Kazan D.
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- XXII. **Investigation of the proteom profile of alkaliphilic B marmarensis sp nov under different pH conditions**
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- XXIII. **The plant derived alkaloid roemerin is involved in the modulation of motility in E coli**
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- XXIV. **Optimization of process parameters for enzymatic hydrolysis of hazelnut husk**
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- XXV. **Optimization of process parameters for enzymatic hydrolysis of hazelnut husk**
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- XXVI. **Effect of Different Carbon Sources on the Production of Poly 3 hydroxybutyrate PHB from Bacillus marmarensis GMBE 72T**
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- XXVIII. **Response of novel *Bacillus marmarensis* GMBE 72T to extreme conditions: Poly (3-hydroxybutyrate)**
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- XXIX. **Response of the *Bacillus marmarensis* GMBE 72T to extrem conditions Poly 3hydroxybutyrate**
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- XXX. **Response of novel *Bacillus marmarensis* GMBE 72(T) to extreme conditions: Poly (3-hydroxybutyrate)**
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- XXXI. **Getting an insight into the antibacterial activity of the plant derived alkaloid (-)-roemerine against *E. coli* cells**
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- XXXII. **Enzyme mixture production from *Pycnoporus sanguineus* DMSZ 3024 using a lignocellulosic waste, Hazelnut husk: A case study for laccase and cellulase**
PİNAR O., KOÇHAN B., SAYAR N. A. , KARAOSMANOĞLU K., KAZAN D.
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- XXXIII. **Cloning and Expression of *xynA* Gene from Xylanase Secreting *Bacillus pumilus* YMNX25**
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- XXXIV. **Hydrolysis of Hazelnut Husk by Using Commercial Enzymes for the Production of Fermentable Sugar**
KARAOSMANOĞLU K., PİNAR O., SAYAR N. A. , KAZAN D.
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- XXXV. **Osmoadaptation of moderately halophilic microorganisms under cold stress**
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- XXXVI. **Investigation of the antimicrobial effect of an alkaloid from *Papaver rhoeas* K**
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- XXXVII. **Proteomic evaluation of preservation solutions prior to kidney transplantation**
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- XXXVIII. **Growth and osmolyte distribution of a moderately halophilic microorganism in the presence of phenol**
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