

# BELMA ÖZBEK

## PROF.

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### International Researcher IDs

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d9znGMQ9WO\_oKnqhQQFFD7oZefaN-

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## Learning Knowledge

Doctorate 1988 - 1993	University of Wales, Swansea, Faculty Of Engineering, Chemical And Bioprocess Engineering Department, United Kingdom, United Kingdom
Postgraduate 1985 - 1987	Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, Turkey
Undergraduate 1981 - 1985	Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, Turkey

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, The Effect of Imperfect Mixing on the Performance of Escherichia coli K12, University of Wales, Swansea, Faculty Of Engineering, Chemical And Biological Engineering Department, United Kingdom, İngiltere, 1993

Postgraduate, Çan, Keles ve Ağaçlı Linyitlerinin Anorganik Artıklarının Giderilmesi , Yıldız Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Chemical Engineering, 1987

## Academic Titles / Tasks

Professor 2003 - Continues	Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering
Associate Professor 1997 - 2003	Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering

Assistant Professor  
1994 - 1997

Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering,  
Department Of Chemical Engineering

Research Assistant PhD  
1993 - 1994

Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering,  
Department Of Chemical Engineering

Research Assistant  
1988 - 1993

University of Wales, Swansea, United Kingdom-İngiltere, Faculty of Engineering,  
Chemical and Bioprocess Engineering Department

Research Assistant  
1986 - 1988

Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering,  
Department Of Chemical Engineering

## Supported Projects

1. ÖZBEK B., ŞİDİM G., DOĞU M., Project Supported by Higher Education Institutions, Katmanlı İmalat Teknolojilerine Yönelik Özellikleri İyileştirilmiş Fıtil/Filaman Geliştirilmesi, 2022 - Continues
2. ÖZBEK B., KARBUZ P., DOĞU M., Project Supported by Higher Education Institutions, Yüksek Performanslı Termoplastik Kompozitler için Otomatik Elyaf SerimSarım Sistemleri ile Profil Üretim Yöntemi Geliştirilmesi, 2022 - Continues
3. ÖZBEK B., KOÇYİĞİT H. N., Project Supported by Higher Education Institutions, Kiraz Sapı ve Ceviz İçi Perdesi Ekstraktları ile Katkılandırılmış Kitosan Bazlı Aktif Gıda Ambalaj Filmi Üretimi ve Karakterizasyonu, 2022 - 2024
4. ÖZBEK B., YILMAZ ÇETİNER P., YILMAZ E., Project Supported by Higher Education Institutions, Çeşitli Bitkisel Kaynaklardan Yeşil Sentez Yöntemi İle Elde Edilecek Biyoaktif Bileşenlerin Üç Boyutlu/Antimikrobiyal/Antioksidant/Biyobozunur Özelliklerine Sahip Kemik Doku İskelesi Üretiminde Katkı Maddesi Olarak Kullanımlarının İncelenmesi, 2021 - 2024
5. ÖZBEK B., ÖZTÜRK ER E., Project Supported by Higher Education Institutions, Determination of Analytes in Biological Fluids By Q-TOF LC/MS Using Isotope Dilution Method, 2017 - 2021
6. ÖZBEK B., ÖZTÜRK ER E., YILMAZ P., BAKIRDERE S., Project Supported by Higher Education Institutions, Kemik Doku Mühendisliği Uygulamalarında Kullanılacak HidroksiapatitGrafen OksitKitosan Doku İskelesinin Süper Kritik Jel Kurutma Tekniği Kullanılarak Üretimi ve Karakterizasyonu, 2018 - 2020
7. ÖZBEK B., TUBITAK Project, Al2O3 Katkılı Nanolübrikanların Hazırlanması ve Reolojik Özelliklerinin Modellenmesi, 2018 - 2019
8. Çelik M., Dalak E., Ülger Z., Özbek B., Project Supported by Other Private Institutions, Çamaşır Makinelerinde Deterjanın Aktif Bileşenlerinin Tekrarlı Kullanımının Optimizasyonu, 2017 - 2018
9. Yılmaz E., Özbek B., Project Supported by Higher Education Institutions, Farklı Karakterdeki Adsorbanlar ile Sudaki Kirlenmelerin Adsorpsiyonu, 2015 - 2018
10. ÖZBEK B., YILMAZ E., Project Supported by Higher Education Institutions, &#61537;-Amilaz, alkalaz ve &#61538;-galaktozidaz enzimlerinin çeşitli adsorban yüzeylerine immobilizasyonunun optimizasyonu ve immobilize enzimlerin sıcaklık, pH ve zaman stabiliteilerinin incelenmesi, 2012 - 2017
11. ÖZBEK B., ÖZTÜRK ER E., Project Supported by Higher Education Institutions, Grafen oksitin doğal kaynaklı ürünler ile indirgenmesi ve indirgenmiş grafen oksit &#8211; hidroksiapatit kompozitlerin üretilmesi, 2015 - 2015
12. ÖZBEK B., Project Supported by Higher Education Institutions, Polimer Kaplı Mezo Gözenekli Silika Nanoparçacık Sentezi, Karakterizasyonu ve Enzim İmmobilizasyonunda Kullanımı, 2014 - 2015
13. ÖZBEK B., YILMAZ E., Project Supported by Higher Education Institutions, Çeşitli Absorbentlere Protein Adsorpsiyonunun İncelenmesi, 2011 - 2015
14. ÖZBEK B., Project Supported by Higher Education Institutions, Sonikasyon Ortamında Baklagillerin Su Alma Özelliklerinin İncelenmesi, 2012 - 2014
15. Kılıç D., Özbek B., Yılmaz E., Project Supported by Higher Education Institutions, Mısır Gluteni Hidrolizatının Acı Tadının Giderilmesi, 2009 - 2012
16. ÖZBEK B., YILMAZ E., Project Supported by Higher Education Institutions, Susam Küspesindeki Proteinin Hidrolizi:

Proses Parametrelerinin Optimizasyonu, Hidroliz, Çözünürlük, Enzim İnaktivasyon Kinetiği ve Fonksiyonel Özelliklerinin İncelenmesi., 2009 - 2012

17. ÖZBEK B., Project Supported by Higher Education Institutions, &#946;-galactosidase Enzimi ile Yağsız Sütte Laktoz Hidrolizinin İncelenmesi ve Modellenmesi., 2010 - 2010
18. KILIÇ APAR D., ÖZBEK B., Project Supported by Higher Education Institutions, Biyoteknolojide kullanılan tutuklayıcı malzemelerin oksijen transfer katsayısı üzerindeki etkilerinin incelenmesi, 2005 - 2007
19. ÖZBEK B., YILMAZ E., Project Supported by Higher Education Institutions, Gıdaların mikrodalga tekniği kullanılarak kurutulması, doku ve renk özelliklerinin incelenmesi ve modellenmesi, 2004 - 2007
20. ÖZBEK B., Project Supported by Other Private Institutions, Sütteki Laktozun Enzimatik Yolla Hidrolizinin İncelenmesi, 2003 - 2005
21. KILIÇ APAR D., ÖZBEK B., TUBITAK Project, Mısır Gluteninin Enzimatik Hidrolizi, 2003 - 2005
22. ÖZBEK B., KILIÇ APAR D., Project Supported by Higher Education Institutions, Buğday Gluteninin Enzimatik Hidrolizini Etkileyen Proses Parametrelerinin İncelenmesi ve Optimizasyonu, 2003 - 2005
23. ÖZBEK B., Project Supported by Higher Education Institutions, Ultrasonik Ortamda Nişastanın Enzimler Yoluyla Hidrolizinin İncelenmesi, 2001 - 2003
24. KILIÇ APAR D., ÖZBEK B., TUBITAK Project, Mısır Nişastasının Enzimatik Hidrolizinin Optimizasyonu, 2001 - 2002
25. KILIÇ APAR D., ÖZBEK B., Project Supported by Higher Education Institutions, Çeşitli Nişastaların Enzimatik Hidrolizinin Optimizasyonu, 2000 - 2002
26. ÖZBEK B., Project Supported by Higher Education Institutions, Çeşitli Nişastaların Optimizasyonu, 2000 - 2002
27. ÖZBEK B., Other International Funding Programs, Investigation of the Effect of Environmental Conditions on a Novel High Pressure Homogenizer for Producing Cell Disruption, 2000 - 2000
28. ÖZBEK B., Project Supported by Higher Education Institutions, Biyoreaktörde Oksijen Transfer Katsayısının Belirlenmesi ve a - Amilaz Enziminin İncelenmesi, 1998 - 2000
29. ÖZBEK B., Project Supported by Higher Education Institutions, Biyoreaktörde Oksijen Transfer Katsayısının Belirlenmesi ve Alfa-Amilaz Enziminin Stabilitesinin İncelenmesi, 1998 - 2000
30. ÖZBEK B., Project Supported by Higher Education Institutions, Hücre Parçalamada Kullanılan Sonikasyon İşleminin Enzimlerin Aktivitelerine Olan Etkilerinin İncelenmesi, 1998 - 1999
31. ÖZBEK B., Other International Funding Programs, Solubilisation Studies on the Enzymatic Hydrolysis of Wheat Gluten, 1998 - 1998
32. ÖZBEK B., Project Supported by Higher Education Institutions, Endüstriyel Biyoreaktörlerin Simulasyonu, 1994 - 1997
33. ÖZBEK B., Other International Funding Programs, The Deactivation of the Enzymes by a Cell Disrupter, 1996 - 1996

## Scholarships

Yurtdışı Bilimsel Araştırma Bursu - British Council (United Kingdom - İngiltere), University, 1996 - 1996

Yurtdışı Doktora Bursu - Yükseköğretim Kurulu Başkanlığı (United Kingdom - İngiltere), University, 1988 - 1993

## Published journal articles indexed by SCI, SSCI, and AHCI

1. **Manufacturing of hexagonal cross-section thermoplastic matrix composite parts with automatic filament winding system**  
Karbuz P., Dogu M., ÖZBEK B.  
Journal of Manufacturing Processes, vol.129, pp.62-76, 2024 (SCI-Expanded)
2. **Assessment of the quality parameters of microwave-dried Ficus carica Linn leaves**  
Yılmaz P., Demirhan E., ÖZBEK B.  
BIOMASS CONVERSION AND BIOREFINERY, 2022 (SCI-Expanded)
3. **Development of Ficus carica Linn leaves extract incorporated chitosan films for active food packaging materials and investigation of their properties**  
Yılmaz P., Yılmaz E., Özbek B.  
FOOD BIOSCIENCE, vol.46, 2022 (SCI-Expanded)
4. **Accurate determination of amino acids by quadruple isotope dilution-reverse phase liquid**

**Chromatography-Tandem mass spectrometry after derivatization with 2-Naphthoyl chloride**

Er E. O., ERARPAT S., Bodur S., GÜNKARA Ö. T., ÖZBEK B., BAKIRDERE S.

JOURNAL OF CHROMATOGRAPHY A, vol.1667, 2022 (SCI-Expanded)

5. **Microwave drying effect on drying characteristic and energy consumption of Ficus carica Linn leaves**  
Yilmaz P., YILMAZ E., ÖZBEK B.  
JOURNAL OF FOOD PROCESS ENGINEERING, vol.44, no.10, 2021 (SCI-Expanded)
6. **Utilization of low-cost bio-waste adsorbent for methylene blue dye removal from aqueous solutions and optimization of process variables by response surface methodology approach**  
Yilmaz P., Gunduz D., ÖZBEK B.  
DESALINATION AND WATER TREATMENT, vol.224, pp.367-388, 2021 (SCI-Expanded)
7. **Determination of seventeen free amino acids in human urine and plasma samples using quadruple isotope dilution mass spectrometry combined with hydrophilic interaction liquid chromatography – Tandem mass spectrometry**  
ÖZTÜRK ER E., ÖZBEK B., BAKIRDERE S.  
Journal of Chromatography A, vol.1641, 2021 (SCI-Expanded)
8. **DNA-damage and cell cycle arrest initiated anti-cancer potency of super tiny carbon dots on MCF7 cell line**  
Şimşek Kekevi S., Aktaş Şüküroğlu A., Yetkin D., Özbek B., Battal D., Altürk R. G.  
Scientific Reports, vol.10, no.1, pp.1-14, 2020 (SCI-Expanded)
9. **An optimization study on adsorption of Reactive Blue 19 dye from aqueous solutions by extremely effective and reusable novel magnetic nanoadsorbent**  
Pehlivan M., Simsek S., Ozbek S., ÖZBEK B.  
DESALINATION AND WATER TREATMENT, vol.191, pp.438-451, 2020 (SCI-Expanded)
10. **A powerful combination of quadruple isotope dilution strategy with dispersive magnetic solid phase extraction for the accurate and precise multi-analyte determination of tadalafil, sildenafil, avanafil and vardenafil in human plasma and urine samples using LC-ESI-Tandem MS**  
Öztürk Er E., Akkaya E., Özbek B., Bakirdere S.  
MICROCHEMICAL JOURNAL, vol.152, 2020 (SCI-Expanded)
11. **Application of supercritical gel drying method on fabrication of mechanically improved and biologically safe three-component scaffold composed of graphene oxide/chitosan/hydroxyapatite and characterization studies**  
Yilmaz P., Öztürk Er E., Bakirdere S., Ülgen K., Özbek B.  
Journal of Materials Research and Technology, vol.8, pp.5201-5216, 2019 (SCI-Expanded)
12. **Fluorescent Carbon Dots from Nerium oleander: Effects of Physical Conditions and the Extract Types**  
Simsek S., Alas M. Ö., Özbek B., Genç R.  
JOURNAL OF FLUORESCENCE, vol.29, pp.853-864, 2019 (SCI-Expanded)
13. **Development of an analytical method based on citric acid coated magnetite nanoparticles assisted dispersive magnetic solid-phase extraction for the enrichment and extraction of sildenafil, tadalafil, vardenafil and avanafil in human plasma and urine prior to determination by LC-MS/MS**  
Er E., Akkaya E., Özbek B., Bakirdere S.  
Microchemical Journal, vol.147, pp.269-276, 2019 (SCI-Expanded)
14. **Evaluation of the physical properties of fluorescent carbon nanodots synthesized using Nerium oleander extracts by microwave-assisted synthesis methods**  
Simsek S., Ozge Alas M., Özbek B., Genc R.  
Journal of Materials Research and Technology, vol.8, pp.2721-2731, 2019 (SCI-Expanded)
15. **An extensive study on the synthesis of iron based magnetic aluminium oxide nanocomposites by solution combustion method**  
Pehlivan M., Simsek S., Ozbek S., ÖZBEK B.  
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.8, no.2, pp.1746-1760, 2019 (SCI-Expanded)
16. **Accurate and sensitive determination of sildenafil, tadalafil, vardenafil, and avanafil in illicit erectile dysfunction medications and human urine by LC with quadrupole-TOF-MS/MS and their behaviors in simulated gastric conditions**

- Öztürk Er E., Özbek B., Bakırdere S.  
JOURNAL OF SEPARATION SCIENCE, vol.42, pp.475-483, 2019 (SCI-Expanded)
17. **A sensitive and selective analytical method for the simultaneous determination of sildenafil and tadalafil in water, energy drinks and sewage sludge matrices by LC-QTOF-MS/MS**  
Er E., Özbek B., Bakırdere S.  
MEASUREMENT, vol.124, pp.64-71, 2018 (SCI-Expanded)
18. **ESTIMATION OF TEA LEAVES MASS TRANSFER PARAMETERS UNDERGOING MICROWAVE HEAT TREATMENT**  
Demirhan E., Sert G., Harmanli S. H., Özbek B.  
LATIN AMERICAN APPLIED RESEARCH, vol.48, pp.107-112, 2018 (SCI-Expanded)
19. **Preparation and characterization of polymer-coated mesoporous silica nanoparticles and their application in Subtilisin immobilization**  
Özbek B., Unal S.  
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.34, pp.1992-2001, 2017 (SCI-Expanded)
20. **KEFIR GRAIN BIOMASS PRODUCTION: INFLUENCE OF DIFFERENT CULTURING CONDITIONS AND EXAMINATION OF GROWTH KINETIC MODELS**  
Apar D., Demirhan Yılmaz E., Özel B., Özbek B.  
JOURNAL OF FOOD PROCESS ENGINEERING, vol.40, 2017 (SCI-Expanded)
21. **Production of biologically safe and mechanically improved reduced graphene oxide/hydroxyapatite composites**  
Ozturk E., Özbek B., Şenel İ.  
MATERIALS RESEARCH EXPRESS, vol.4, no.1, 2017 (SCI-Expanded)
22. **BSA adsorption onto commercial activated carbon modified by microwave assisted chemical activation**  
TAŞKIN M., Ozbek S., Demirhan E., ÖZBEK B.  
BULGARIAN CHEMICAL COMMUNICATIONS, vol.48, no.2, pp.261-268, 2016 (SCI-Expanded)
23. **ASCORBIC ACID DEGRADATION KINETIC FOR MICROWAVE DRIED BASIL, PURSLANE AND CELERY LEAVES**  
Demirhan E., Akpınar Z., Apar D. K., Özbek B.  
LATIN AMERICAN APPLIED RESEARCH, vol.45, no.2, pp.113-118, 2015 (SCI-Expanded)
24. **EFFECT OF PRETREATMENTS ON SESAME CAKE PROTEIN HYDROLYSIS BY ALCALASE**  
Demirhan E., Apar D. K., Özbek B.  
LATIN AMERICAN APPLIED RESEARCH, vol.45, pp.81-83, 2015 (SCI-Expanded)
25. **Color Change Kinetics of Tea Leaves During Microwave Drying**  
Demirhan E., ÖZBEK B.  
INTERNATIONAL JOURNAL OF FOOD ENGINEERING, vol.11, no.2, 2015 (SCI-Expanded)
26. **Modeling of the Water Uptake Process for Cowpea Seeds (Vigna Unguiculata L.) under Common Treatment and Microwave Treatment**  
Demirhan E., ÖZBEK B.  
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.37, no.1, pp.1-10, 2015 (SCI-Expanded)
27. **Influence of vitamin (B-1, B-6, B-9, B-12, C) and ions (Cu<sup>2+</sup>, Mn<sup>2+</sup>, PO<sub>4</sub><sup>(3-)</sup>) on kefir grain biomass growth**  
Demirhan E., GURSES B., YALCIN B. E., Apar D. K., ÖZBEK B.  
FOOD SCIENCE AND BIOTECHNOLOGY, vol.22, no.4, pp.1007-1013, 2013 (SCI-Expanded)
28. **INFLUENCE OF ENZYMATIC HYDROLYSIS ON THE FUNCTIONAL PROPERTIES OF SESAME CAKE PROTEIN**  
Demirhan E., ÖZBEK B.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.200, no.5, pp.655-666, 2013 (SCI-Expanded)
29. **A Modelling study on skimmed milk lactose hydrolysis and beta-galactosidase stability using three reactor types**  
AKGUL F. B., Demirhan E., ÖZBEK B.  
INTERNATIONAL JOURNAL OF DAIRY TECHNOLOGY, vol.65, no.2, pp.217-231, 2012 (SCI-Expanded)
30. **Corn gluten hydrolysis by Alcalase: Calibration of pH-stat**  
Apar D., Özbek B.

- FOOD AND BIOPRODUCTS PROCESSING, vol.89, pp.500-503, 2011 (SCI-Expanded)
31. **A modelling study on kefir grain biomass growth: Influence of various minerals**  
Demirhan E., Apar D. K., Payer G., ÖZBEK B.  
INTERNATIONAL JOURNAL OF DAIRY TECHNOLOGY, vol.64, no.3, pp.402-407, 2011 (SCI-Expanded)
  32. **A Kinetic Study on Sesame Cake Protein Hydrolysis by Alcalase**  
Demirhan E., Apar D. K., ÖZBEK B.  
JOURNAL OF FOOD SCIENCE, vol.76, no.1, 2011 (SCI-Expanded)
  33. **Sesame cake protein hydrolysis by alcalase: Effects of process parameters on hydrolysis, solubilisation, and enzyme inactivation**  
Demirhan E., Apar D., ÖZBEK B.  
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.28, no.1, pp.195-202, 2011 (SCI-Expanded)
  34. **THIN-LAYER DRYING CHARACTERISTICS AND MODELING OF CELERY LEAVES UNDERGOING MICROWAVE TREATMENT**  
Demirhan E., ÖZBEK B.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.198, no.7, pp.957-975, 2011 (SCI-Expanded)
  35. **COLOR CHANGE KINETICS OF CELERY LEAVES UNDERGOING MICROWAVE HEATING**  
Demirhan E., ÖZBEK B.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.198, no.10, pp.1189-1205, 2011 (SCI-Expanded)
  36. **Drying kinetics and effective moisture diffusivity of purslane undergoing microwave heat treatment**  
Demirhan E., ÖZBEK B.  
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.27, no.5, pp.1377-1383, 2010 (SCI-Expanded)
  37. **REHYDRATION KINETICS OF MICROWAVE-DRIED BASIL**  
Demirhan E., ÖZBEK B.  
JOURNAL OF FOOD PROCESSING AND PRESERVATION, vol.34, no.4, pp.664-680, 2010 (SCI-Expanded)
  38. **MICROWAVE-DRYING CHARACTERISTICS OF BASIL**  
Demirhan E., ÖZBEK B.  
JOURNAL OF FOOD PROCESSING AND PRESERVATION, vol.34, no.3, pp.476-494, 2010 (SCI-Expanded)
  39. **A modelling study on hydrolysis of whey lactose and stability of beta-galactosidase**  
Demirhan E., Apar D. K., ÖZBEK B.  
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.27, no.2, pp.536-545, 2010 (SCI-Expanded)
  40. **CORN GLUTEN HYDROLYSIS BY ALCALASE: KINETICS OF HYDROLYSIS**  
Apar D., Özbek B.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.197, no.7, pp.963-973, 2010 (SCI-Expanded)
  41. **REHYDRATION KINETICS OF MICROWAVE-DRIED OKRAS AS AFFECTED BY DRYING CONDITIONS**  
Apar D., Demirhan E., ÖZBEK B., DADALI G.  
JOURNAL OF FOOD PROCESSING AND PRESERVATION, vol.33, no.5, pp.618-634, 2009 (SCI-Expanded)
  42. **A Kinetic Study on Corn Gluten Hydrolysis**  
Apar D., Özbek B.  
CHEMICAL ENGINEERING & TECHNOLOGY, vol.32, no.4, pp.673-675, 2009 (SCI-Expanded)
  43. **A MODELING STUDY ON HYDROLYSIS OF LACTOSE RECOVERED FROM WHEY AND -GALACTOSIDASE STABILITY UNDER SONIC TREATMENT**  
Demirhan E., ÖZBEK B.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.196, no.7, pp.767-787, 2009 (SCI-Expanded)
  44. **Kinetic thermal degradation of vitamin C during microwave drying of okra and spinach**  
DADALI G., ÖZBEK B.  
INTERNATIONAL JOURNAL OF FOOD SCIENCES AND NUTRITION, vol.60, no.1, pp.21-31, 2009 (SCI-Expanded)
  45. **Color Change Kinetics of Microwave-Dried Basil**  
Demirhan E., ÖZBEK B.  
DRYING TECHNOLOGY, vol.27, no.1, pp.156-166, 2009 (SCI-Expanded)
  46. **Effect of drying conditions on rehydration kinetics of microwave dried spinach**  
DADALI G., Demirhan E., ÖZBEK B.  
FOOD AND BIOPRODUCTS PROCESSING, vol.86, pp.235-241, 2008 (SCI-Expanded)

47. **Microwave heat treatment of leek: drying kinetic and effective moisture diffusivity**  
DADALI G., ÖZBEK B.  
INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, vol.43, no.8, pp.1443-1451, 2008 (SCI-Expanded)
48. **Corn gluten hydrolysis by Alcalase: Effects of process parameters on hydrolysis solubilization and enzyme inactivation**  
Apar D., Özbek B.  
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.22, no.2, pp.203-212, 2008 (SCI-Expanded)
49. **Milk lactose hydrolysis in a batch reactor: Optimisation of process parameters, kinetics of hydrolysis and enzyme inactivation**  
Şener N., Apar D. K., Demirhan E., Özbek B.  
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.22, no.2, pp.185-193, 2008 (SCI-Expanded)
50. **Effect of hydrolysis products and Mg<sup>2+</sup>, Mn<sup>2+</sup> and Ca<sup>2+</sup> ions on whey lactose hydrolysis and beta-galactosidase stability**  
Demirhan E., Apar D. K., ÖZBEK B.  
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.83, no.5, pp.625-636, 2008 (SCI-Expanded)
51. **Protein releasing kinetics of bakers' yeast cells by ultrasound**  
Apar D., ÖZBEK B.  
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.22, no.1, pp.113-118, 2008 (SCI-Expanded)
52. **Product inhibition of whey lactose hydrolysis**  
Demirhan E., Apar D. K., ÖZBEK B.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.195, no.3, pp.293-304, 2008 (SCI-Expanded)
53. **Thin-layer drying characteristics and modelling of mint leaves undergoing microwave treatment**  
Ozbek B., Dadali G.  
JOURNAL OF FOOD ENGINEERING, vol.83, no.4, pp.541-549, 2007 (SCI-Expanded)
54. **Hydrolysis and solubilization of corn gluten by Neutrase**  
Apar D., Ozbek B.  
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.82, no.12, pp.1107-1114, 2007 (SCI-Expanded)
55. **Estimation of kinetic parameters for rice starch hydrolysis inhibited by added materials**  
Apar D., Ozbek B.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.194, no.3, pp.334-344, 2007 (SCI-Expanded)
56. **Estimation of effective moisture diffusivity of okra for microwave drying**  
Dadali G., Apar D., Ozbek B.  
DRYING TECHNOLOGY, vol.25, no.9, pp.1445-1450, 2007 (SCI-Expanded)
57. **Color change kinetics of okra undergoing microwave drying**  
Dadali G., Apar D., Ozbek B.  
DRYING TECHNOLOGY, vol.25, pp.925-936, 2007 (SCI-Expanded)
58. **Microwave drying kinetics of okra**  
Dadali G., Apar D., Ozbek B.  
DRYING TECHNOLOGY, vol.25, pp.917-924, 2007 (SCI-Expanded)
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ICHEME Research Event, Advances in Biochemical Engineering, Brighton, United Kingdom, 04 July 1994, vol.1, pp.14-16

## Academic and Administrative Experience

2011 - 2022	<b>Head of Department</b>	Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Kimya Mühendisliği Bölümü
2016 - 2021	<b>Head of Department</b>	Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Kimya Mühendisliği Bölümü
2016 - 2021	<b>Academic Performance D. Board Member</b>	Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Kimya Mühendisliği Bölümü
2016 - 2021	<b>Fakülte Akademik Kurul Üyesi</b>	Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Kimya Mühendisliği Bölümü
2008 - 2011	<b>Fakülte Yönetim Kurulu Üyesi</b>	Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Kimya Mühendisliği Bölümü
2003 - 2004	<b>Deputy Head of Department</b>	Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Kimya Mühendisliği Bölümü
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## Advising Theses

Özbek B., Kiraz Sapı Ve Ceviz İçi Perdesi Ekstraktları İle Katkılandırılmış Kitosan Bazlı Aktif Gıda Ambalaj Filmi Üretimi Ve Karakterizasyonu, Postgraduate, H.KOÇYİĞİT(Student), 2024

Özbek B., Remazol Ultra Kırmızı RGB Boyasının Sulu Çözeltilerden Palmiye Yaprakları ve Lifleri Kullanılarak Adsorpsiyonunun Yanıt Yüzey Metodu ile Optimizasyonu, Postgraduate, S.SEVİMLİ(Student), 2022

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Özbek B., Özbek S., İş Sağlığı ve Güvenliği Eğitim Uygulamalarının Karşılaştırılması, Doctorate, İ.KOL(Student), 2021

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Özbek B., Bakırdere S., Determination of Trace Analytes in Biological Fluids by Q TOF LC/MS Using Isotope Dilution Method, Doctorate, E.ÖZTÜRKER(Student), 2020

Özbek B., Mikrodalga Tekniği İle Kurutulan Dut Yapraklarının Kuruma, Renk ve Rehidratasyon Kinetiklerinin Modellenmesi, Postgraduate, B.YILMAZ(Student), 2019

Özbek B., Metilen Mavisi Boyasının Sulu Çözeltilerden Susam Küspesi Kullanılarak Adsorpsiyonu ve Yanıt Yüzey Metodu ile Optimizasyonu, Postgraduate, D.GÜNDÜZ(Student), 2019

Özbek B., Genç R., Tekstil Endüstrisinde Kullanılmak Üzere Enzimatik İşlevleri Taklit Edebilen Nanoparçacıkların Sentezi, Postgraduate, M.ATAY(Student), 2019

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Özbek B., Ülgen Ş. K., Production and Characterization of Hydroxyapatite-Graphene Oxide-Chitosan Scaffold for Bone Tissue Engineering Application, Postgraduate, P.YILMAZ(Student), 2018

Özbek B., Özbek S., Synthesis of Aluminium Oxide Nanoparticles and Iron Based Magnetic Aluminium Oxide Nanocomposites by Solution Combustion Method and Applications, Postgraduate, M.Pehlivan(Student), 2018

ÖZBEK B., Tam Teşekküllü Spor Komplekslerinin Risk Analizlerinin Fine Kinney ve 5x5 L Matris Yöntemleri ile Yapılarak Karşılaştırılması, Postgraduate, B.Eskiömeroğlu(Student), 2018

ÖZBEK B., Deniz Börülcesinin Mikrodalga Tekniği İle Kurutulması: Kuruma, Renk ve Rehidratasyon Kinetiğinin Modellenmesi, Postgraduate, E.Altun(Student), 2017

ÖZBEK B., Preparation and Characterization of Polymer-coated Mesoporous Silica Nanoparticles and Their Application in Enzyme Immobilization, Postgraduate, Ş.Ünal(Student), 2015

ÖZBEK B., Reduction of Graphene Oxide by Natural Products and Production of Reduced Graohene Oxide-Hydroxyapatite Composites, Postgraduate, E.Öztürk(Student), 2015

ÖZBEK B., Sualtı Çalışmalarında İş Sağlığı ve Güvenliği Sorumlulukları, Postgraduate, K.Malay(Student), 2015

ÖZBEK B., Asbest Maruziyetinin İş Sağlığı ve Güvenliği Yönünden İncelenmesi, Postgraduate, R.Şahan(Student), 2015

ÖZBEK B., Tarımsal Atıklar Kullanılarak Sulu Çözeltilerden Alüminyum Gideriminin İncelenmesi, Postgraduate, M.Mete(Student), 2014

Özbek B., Ticari Aktif Karbonun Modifikasyonu ve BSA Adsorpsiyon Özelliklerinin İncelenmesi, Postgraduate, M.Taşkın(Student), 2013

ÖZBEK B., Susam Küspesindeki Proteinin Enzimatik Hidrolizinin, Çözünürlüğünün, Enzim İnaktivasyon Kinetiğinin ve Fonksiyonel Özelliklerinin İncelenmesi, Doctorate, E.Demirhan(Student), 2012

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Özbek B., Beta-Galactosidase Enzimi ile Yağsız Sütte Laktoz Hidrolizinin İncelenmesi ve Modellenmesi, Postgraduate, F.AKGÜL(Student), 2010

ÖZBEK B., Mısır Gluteninin Enzimatik Hidrolizi: Proses Parametrelerinin Optimizasyonu, Hidroliz, Çözünürlük ve Enzim İnaktivasyon Kinetiği, Doctorate, D.Kılıç(Student), 2008

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ÖZBEK B., Peyniraltı Suyundan Elde Edilen Laktozun Enzimatik Hidrolizinin İncelenmesi ve Modellenmesi, Postgraduate, E.Demirhan(Student), 2007

ÖZBEK B., Sütteki Laktozun Enzimatik Hidrolizinin İncelenmesi ve Modellenmesi, Postgraduate, N.Şener(Student), 2005

ÖZBEK B., Ultrasonik Ortamda Buğday Nişastasının Alfa-Amilaz Enzimi ile Hidrolizi, Postgraduate, M.Turhan(Student), 2004

ÖZBEK B., Kesikli Bir Biyoreaktörde Aktif Karbonun Oksijen Transfer Katsayısı Üzerindeki Etkisinin İncelenmesi, Postgraduate, G.Berkyürek(Student), 2004

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ÖZBEK B., Buğday Nişastasının Hidrolizinde Alfa-Amilaz Enziminin Aktivitesinin İncelenmesi, Postgraduate, S.Yüceer(Student), 2000

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## Research Areas

Chemical Engineering and Technology, Biotechnology, Biochemical Reaction Engineering, Biotechnological Processes and Fermentation Technology, Enzyme Engineering, Process and Reactor Design, Chemical Reaction Engineering, Life Sciences, Biotechnology, Biomaterial, Bioreactor, Microbial Biotechnology, Chemistry, Biochemistry, Biotransformations, Enzyme Kinetics, Natural Sciences, Engineering and Technology