

# BELMA ÖZBEK

## PROF.

Email : [bozbek@yildiz.edu.tr](mailto:bozbek@yildiz.edu.tr)

Office Phone : [+90 212 383 4747](tel:+902123834747)

Fax Phone : [+90 212 383 4725](tel:+902123834725)

Address : Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü,  
Davutpaşa Kampüsü, 34220, Esenler, İstanbul

### International Researcher IDs

ScholarID: -mwQCikAAAAJ&view\_op=list\_works&gmla=AJsN-F68j-  
d9znGMQ9WO\_oKnqhQQFFD7oZefaN-

OVqE5BzUbQbfjiYYQdfAvbbrxybavHGOFri7dma94luXDtZ9MyiceUSYxBiB2qfeDKbHYgNiq8xA8S38

ORCID: 0000-0003-0281-6671

Publons / Web Of Science ResearcherID: D-2884-2019

ScopusID: 6603286161

Yoksis Researcher ID: 24524



## Learning Knowledge

|                              |  |
|------------------------------|--|
| Doctorate<br>1988 - 1993     | University of Wales, Swansea, Faculty Of Engineering, Chemical And Bioprocess Engineering Department, United Kingdom, United Kingdom |
| Postgraduate<br>1985 - 1987  | Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, Turkey           |
| Undergraduate<br>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<br>2003 - Continues      | Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering |
| Associate Professor<br>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 Kirleticilerin 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 Alfa-Amilaz Enziminin Stabilitésinin İncelenmesi, 1998 - 2000
29. ÖZBEK B., Project Supported by Higher Education Institutions, Biyoreaktörde Oksijen Transfer Katsayısının Belirlenmesi ve a - Amilaz Enziminin 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 and characterization of continuous carbon fiber reinforced polyphenylene sulfide filaments via melt impregnation method**  
Sidim G., Dogu M., Özbek B.  
Polymer Composites, vol.46, no.1, pp.749-760, 2025 (SCI-Expanded)
2. **Optimization of the Filament Winding Process for Glass Fiber-Reinforced PPS and PP Composites Using Box-Behnken Design**  
Orman S., Dogu M., Özbek B.  
POLYMERS, vol.16, no.24, pp.1-21, 2024 (SCI-Expanded)
3. **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)

4. **Assessment of the quality parameters of microwave-dried *Ficus carica* Linn leaves**  
Yilmaz P., Demirhan E., ÖZBEK B.  
BIOMASS CONVERSION AND BIOREFINERY, vol.14, no.21, pp.27273-27292, 2024 (SCI-Expanded)
5. **Development of *Ficus carica* Linn leaves extract incorporated chitosan films for active food packaging materials and investigation of their properties**  
Yilmaz P., Yilmaz E., Özbek B.  
FOOD BIOSCIENCE, vol.46, 2022 (SCI-Expanded)
6. **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)
7. **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)
8. **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)
9. **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)
10. **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)
11. **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)
12. **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., Bakırdere S.  
MICROCHEMICAL JOURNAL, vol.152, 2020 (SCI-Expanded)
13. **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., Bakırdere S., Ülgen K., Özbek B.  
Journal of Materials Research and Technology, vol.8, pp.5201-5216, 2019 (SCI-Expanded)
14. **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)
15. **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., Bakırdere S.  
Microchemical Journal, vol.147, pp.269-276, 2019 (SCI-Expanded)
16. **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)

17. **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)
18. **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)
19. **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)
20. **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)
21. **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)
22. **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)
23. **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)
24. **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)
25. **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)
26. **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)
27. **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)
28. **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)
29. **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)
30. **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)
31. **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)
32. **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)
33. **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)
34. **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)
35. **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)
36. **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)
37. **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)
38. **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)
39. **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)
40. **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)
41. **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)
42. **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)
43. **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)
44. **A Kinetic Study on Corn Gluten Hydrolysis**  
Apar D., Özbek B.  
CHEMICAL ENGINEERING & TECHNOLOGY, vol.32, no.4, pp.673-675, 2009 (SCI-Expanded)
45. **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)
46. **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)
47. **Color Change Kinetics of Microwave-Dried Basil**  
Demirhan E., ÖZBEK B.  
DRYING TECHNOLOGY, vol.27, no.1, pp.156-166, 2009 (SCI-Expanded)
48. **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)
49. **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)
50. **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)
51. **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)
52. **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)
53. **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)
54. **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)
55. **Hydrolysis and solubilization of corn gluten by Neutralse**  
Apar D., Ozbek B.  
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.82, no.12, pp.1107-1114, 2007 (SCI-Expanded)
56. **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)
57. **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)
58. **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)
59. **Microwave drying kinetics of okra**  
Dadali G., Apar D., Ozbek B.  
DRYING TECHNOLOGY, vol.25, pp.917-924, 2007 (SCI-Expanded)
60. **Microwave heat treatment of spinach: Drying kinetics and effective moisture diffusivity**  
DADALI G., Demirhan E., Ozbek B.  
DRYING TECHNOLOGY, vol.25, no.10, pp.1703-1712, 2007 (SCI-Expanded)
61. **Color change kinetics of spinach undergoing microwave drying**  
DADALI G., Demirhan E., Ozbek B.  
DRYING TECHNOLOGY, vol.25, no.10, pp.1713-1723, 2007 (SCI-Expanded)
62. **Color change kinetics of okra undergoing microwave drying**  
Dadali G., Apar D., Ozbek B.

- DRYING TECHNOLOGY, vol.25, pp.925-936, 2007 (SCI-Expanded)
63. **Effect of impeller speed and viscosity on whey lactose hydrolysis and beta-galactosidase stability**  
Demirhan E., Apar D., Ozbek B.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.194, no.8, pp.1078-1093, 2007 (SCI-Expanded)
64. **Enzymatic hydrolysis of starch by using a sonifier**  
Apar D., Turhan M., Ozbek B.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.193, no.9, pp.1117-1126, 2006 (SCI-Expanded)
65. **A modelling study on milk lactose hydrolysis and beta-galactosidase stability under sonication**  
Sener N., Apar D., Ozbek B.  
PROCESS BIOCHEMISTRY, vol.41, no.7, pp.1493-1500, 2006 (SCI-Expanded)
66. **alpha-amylase inactivation during rice starch hydrolysis**  
Apar D., Ozbek B.  
PROCESS BIOCHEMISTRY, vol.40, pp.1367-1379, 2005 (SCI-Expanded)
67. **alpha-amylase inactivation during corn starch hydrolysis process**  
Apar D., Ozbek B.  
PROCESS BIOCHEMISTRY, vol.39, no.12, pp.1877-1892, 2004 (SCI-Expanded)
68. **alpha-Amylase inactivation by temperature during starch hydrolysis**  
Apar D., Ozbek B.  
PROCESS BIOCHEMISTRY, vol.39, no.9, pp.1137-1144, 2004 (SCI-Expanded)
69. **alpha-amylase inactivation during wheat starch hydrolysis process**  
Ozbek B., Yuceer S.  
PROCESS BIOCHEMISTRY, vol.37, no.1, pp.87-95, 2001 (SCI-Expanded)
70. **Scale-down Fermentation Using Escherichia coli K12: Laboratory Studies of a Combined Two Reactors System-Part II**  
ÖZBEK B.  
The International Journal of Sciences and Engineering/Research and Applications, vol.1, no.2, pp.73-79, 2001 (SCI-Expanded)
71. **The studies on the oxygen mass transfer coefficient in a bioreactor**  
Ozbek B., GAYIK S.  
PROCESS BIOCHEMISTRY, vol.36, pp.729-741, 2001 (SCI-Expanded)
72. **Scale-down Fermentation Using Escherichia coli K12: Mathematical Model of a Combined Two Reactors System (CSTR+PFTR) and Simulation Studies-Part I**  
ÖZBEK B., LOVITT R.  
The International Journal of Sciences and Engineering/Research and Applications, vol.1, no.1, 2000 (SCI-Expanded)
73. **The stability of enzymes after sonication**  
Ozbek B., Ulgen K.  
PROCESS BIOCHEMISTRY, vol.35, pp.1037-1043, 2000 (SCI-Expanded)
74. **Mathematical modeling and simulation of imperfect mixing in bioreactors**  
Özbek B.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.23, pp.177-195, 1998 (SCI-Expanded)
75. **Determination of the kinetic parameters of Escherichia coli K12 (9481) in batch and continuous cultures**  
Ozbek B., Lovitt R.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.23, pp.47-55, 1998 (SCI-Expanded)
76. **Mathematical modeling and simulation studies of scale-down fermentation systems**  
Ozbek B.  
CHEMICAL ENGINEERING & TECHNOLOGY, vol.20, no.4, pp.259-267, 1997 (SCI-Expanded)
77. **Desulfurisation of Turkish Lignites by Chlorinolysis, (Former Name of the Journal: Fuel Science and Technology International)**  
Özbek B., Dinçer S., Kuyulu A., Pişkin S.  
Petroleum Science And Technology, vol.8, no.3, pp.271-287, 1990 (SCI-Expanded)



## Articles Published in Other Journals

- pH-STAT CALIBRATION FOR SESAME CAKE PROTEIN HYDROLYSIS BY ALCALASE**  
Yılmaz E., Apar D. K., Özbek B.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.30, no.1, pp.1-8, 2012 (ESCI)
- Corn, Rice and Wheat Starch Hydrolysis by Using Various Alpha-Amylase Enzymes at Temperature 40 °C**  
Kılıç Apar D., Özbek B.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.22, no.2, pp.55-67, 2004 (ESCI)
- Enzim Üretimi**  
Kılıç Apar D., Özbek B.  
Biyoteknoloji Sektör Dergisi-BİYOTEK, vol.14, pp.27-29, 2003 (Peer-Reviewed Journal)
- Mixing-Modeling of a Combined Two- Reactors System for Scale-Down Approaches in Bioreactors**  
ÖZBEK B., Lovitt R.  
YTÜD-Yıldız Teknik Üniversitesi Dergisi, vol.4, no.1, pp.81-91, 2001 (Peer-Reviewed Journal)
- Studies on the Stability of Various Components of Control Serums Prepared in Lyophilised Form**  
ÖZBEK B., Karavelioğlu H.  
YTÜD-Yıldız Teknik Üniversitesi Dergisi, vol.1, no.1, pp.42-50, 2001 (Peer-Reviewed Journal)
- Desulfurization of turkish lignites by chiorinolýsis**  
Özbek B., Dinçer S., Kuyulu A., Pişkin S.  
Fuel Science and Technology International, vol.8, no.3, pp.271-287, 1990 (Scopus)
- Keles (Bursa) ve Ağaçlı (İstanbul) Linyitlerinin Kükürtlerinin Giderilmesine İlişkin bir çalışma**  
Cemaloğlu M., Yılmaz V., ÖZBEK B., Emir B., Filiz M., Erturan S., Dinçer S.  
DOĞA-Türk Kimya Dergisi, vol.12, no.2, pp.137-146, 1988 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- Manufcaturing and Characterization of Continuous Glass Fiber Filament for Additive Manufacturing Applications**  
Şıdım G., Doğu M., Özbek B.  
2th International Congress on Engineering and Sciences, İstanbul, Turkey, 16 - 17 December 2023, pp.729
- Production and Characterization of Carbon Fibre-Reinforced Polypropylene Composite Filament**  
Şıdım G., Doğu M., Özbek B.  
10th International Congress on Engineering and Technology Management, İstanbul, Turkey, 14 - 15 October 2023, pp.561
- Experimental Investigation and Modelling of Adhesion Between Textile Cords and Rubber Compounds**  
Pehlivan M., Atalık B., Gökçesular S., Özbek B.  
RubberCon 2023, Edinburgh, England, 9 - 11 May 2023, pp.1
- Production and Characterization of Polypropylene/Glass Fiber Composite by Filament Winding Process**  
Karbuz P., Doğu M., Özbek B.  
5th International Congress on Engineering Sciences and Multidisciplinary Approaches, İstanbul, Turkey, 25 - 26 February 2023, pp.632
- Production of Ficus carica Linn leave extract loaded chitosan/hydroxyapatite scaffolds with enhanced antioxidant and antimicrobial properties**  
Yılmaz P., Yılmaz E., Özbek B.  
4th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2022), Ankara, Turkey, 14 - 16 December 2022, pp.152
- Effect of cherry (Prunus avium L.) stalk methanolic and walnut septum acetonic extracts on the characteristics of the blend films based on chitosan active food packaging film**  
Koçyiğit H. N., Yılmaz P., Yılmaz E., Özbek B.

4th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2022), Ankara, Turkey, 14 - 16 December 2022, pp.37

7. **Modification of Textile Surfaces by Chemical Vapor Deposition Method**  
Baybara A. S., Gürsoy M., Özbek B.  
1st International Conference on Engineering and Applied Natural Sciences (1st ICEANS 2022), Konya, Turkey, 10 - 13 May 2022, pp.2289
8. **Investigation of the Effect of Microwave Synthesis Conditions on Physical and Optical Properties of Carbon Dots Synthesized Using Ficus Carica Linn Leaves**  
Yılmaz Çetiner P., Yılmaz E., Özbek B.  
4th International Eurasian Conference on Biological and Chemical Science, Ankara, Turkey, 24 - 26 November 2021, pp.1
9. **Kinetic and Equilibrium Studies on the Adsorption of Remazol Ultra Red RGB Dye from Aqueous Solutions using Palm Leaves**  
Sevimli S., Yılmaz Çetiner P., Yılmaz E., Özbek B.  
International Conference on Chemical and Biochemical Engineering, 20 - 21 August 2021, pp.37
10. **Optimization Study on the Adsorption of Remazol Ultra Red RGB Dye from Aqueous Solutions using Palm Leaves as Natural Bioadsorbent**  
Sevimli S., Yılmaz Çetiner P., Yılmaz E., Özbek B.  
International Conference on Chemical and Biochemical Engineering, 20 - 21 August 2021, pp.36
11. **Colorimetric Detection of Cysteine Using Magnetic Iron Oxide – Carbon Dots as Peroxidase Mimetics**  
Öztürk Er E., Dahim A., Eid F., Akkaya E., Bakırdere S., Özbek B.  
3rd International Congress on Analytical and Bioanalytical Chemistry (3rd ICABC 2021), Elazığ, Turkey, 22 - 26 March 2021, pp.94
12. **Kinetic Modelling Studies on the Microwave-Dried Blackthorn Fruit Epicarp**  
Özden E., Yılmaz Çetiner P., Yılmaz E., Özbek B.  
Proceedings of Academics Conference Network (ACN) International Conference-2020, İstanbul, Turkey, 05 April 2020, vol.1, no.1, pp.51
13. **Process optimization of glass fiber reinforced PPS composites produced by automated fiber placement**  
ORMAN S., DOĞU M., ÖZBEK B.  
7th International Technical Textiles Congress, İzmir, Turkey, 10 October 2018, pp.207-209
14. **Determination of Selected PDE-5 Inhibitors in Human Urine by LC-QTOFMS/MS after Citric Acid Coated Magnetic Nanoparticle Assisted Phase Microextraction**  
ÖZTÜRK ER E., AKKAYA E., ÖZBEK B., BAKIRDERE S.  
11th Aegean Analytical Chemistry Days (AACD 2018), Crete, Greece, 25 September 2018, pp.48
15. **Synthesis and characterization of Fe-Al<sub>2</sub>O<sub>3</sub> nanoparticles by solution combustion method**  
Pehlivan M., ŞİMŞEK KEKEVİ S., ÖZBEK S., ÖZBEK B.  
23rd International Congress of Chemical and Process Engineering (CHISA 2018), Prag, Czech Republic, 25 August 2018
16. **A biosorption study on Reactive Blue 19 removal from aqueous solutions by autumn leaves and process optimization**  
Yayla B., Güneş H., ŞİMŞEK KEKEVİ S., ÖZBEK B.  
23rd International Congress of Chemical and Process Engineering (CHISA 2018), Prag, Czech Republic, 25 August 2018, pp.174
17. **Toxicity Effect Investigation of Graphene Oxide Addition into a Three-Component Scaffold Composed of Hydroxyapatite-Graphene Oxide-Chitosan for Bone Tissue Engineering Applications**  
YILMAZ P., ÖZTÜRK ER E., BAKIRDERE S., Ülgen K., ÖZBEK B.  
23rd International Congress of Chemical and Process Engineering (CHISA 2018), Prag, Czech Republic, 25 August 2018, pp.165
18. **An optimization study on the adsorption of reactive blue 19 dye onto iron based magnetic alumina nanocomposites from aqueous solutions**  
Pehlivan M., ŞİMŞEK KEKEVİ S., Özbek S., ÖZBEK B.  
23rd International Congress of Chemical and Process Engineering (CHISA 2018), Prag, Czech Republic, 25 August

2018, pp.119

19. **Investigation of  $\beta$ -galactosidase enzyme immobilization by covalent binding on activated rice husk**  
Taner F. B. A., ÖZBEK B.  
23rd International Congress of Chemical and Process Engineering (CHISA 2018), Prag, Czech Republic, 25 August 2018, pp.178
20. **Production and characterization studies of a three-component scaffold composed of hydroxyapatite-graphene oxide-chitosan for bone tissue engineering applications**  
YILMAZ P., ÖZTÜRK ER E., BAKIRDERE S., Ülgen K., ÖZBEK B.  
23rd International Congress of Chemical and Process Engineering (CHISA 2018), Prag, Czech Republic, 25 August 2018
21. **An Optimisation and Kinetic Study on Methyl Orange Removal from Aqueous Solutions by Autumn Leaves**  
GUNES H., YAYLA B., ŞİMŞEK KEKEVİ S., ÖZBEK B.  
23rd International Congress of Chemical and Process Engineering (CHISA 2018), Prag, Czech Republic, 25 August 2018, pp.175
22. **A new approach to dye removal from aqueous solutions: biological adsorption by human hair and modelling study**  
ŞİMŞEK KEKEVİ S., ÖZBEK B.  
23rd International Congress of Chemical and Process Engineering (CHISA 2018), Prag, Czech Republic, 25 August 2018, pp.171
23. **A study on the immobilization of  $\beta$ -galactosidase enzyme by covalent binding on loofa sponge and its application**  
Taner F. B. A., ÖZBEK B.  
23rd International Congress of Chemical and Process Engineering (CHISA 2018), Prag, Czech Republic, 25 August 2018, pp.177
24. **Removal of methylene blue dye from aqueous solution by adsorption on sesame seed cake: optimization by response surface methodology**  
YILMAZ P., Gündüz D., ÖZBEK B.  
23rd International Congress of Chemical and Process Engineering (CHISA 2018), Prag, Czech Republic, 25 August 2018, pp.173
25. **In Vitro Genotoxicity and Clastogenicity Evaluation of Carbon-Based Engineered Nanoparticles (CDS)**  
ŞÜKÜROĞLU A. A., ŞİMŞEK KEKEVİ S., YETKİN D., ÖZBEK B., BATTAL D., GENÇ R.  
12th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, 26 June 2018, vol.121, pp.415
26. **Effects of Synthesis Method on Al<sub>2</sub>O<sub>3</sub> Nanoparticle Generation**  
Pehlivan M., ŞİMŞEK KEKEVİ S., ÖZBEK S., ÖZBEK B.  
Proceedings of Academic Conference Network (ACN) International Conference, International Conference on Environment, Agriculture and Biotechnology (ICEABT), İstanbul, Turkey, 20 February 2018, pp.2
27. **Characterization Study on Alumina Nanoparticles Synthesised by Solution Combustion Method**  
Pehlivan M., ŞİMŞEK KEKEVİ S., ÖZBEK S., ÖZBEK B.  
Proceedings of Academic Conference Network (ACN) International Conference, International Conference on Environment, Agriculture and Biotechnology (ICEABT), İstanbul, Turkey, 20 February 2018, pp.1
28. **A Study on the Laundry Powder Detergent Saving by Repetitive Use of Active Detergent Components**  
Çelik M., Dalak E., Ülger Z., ÖZBEK B.  
Proceedings of Academic Conference Network (ACN) International Conference, International Conference on Environment, Agriculture and Biotechnology (ICEABT), İstanbul, Turkey, 20 February 2018, pp.3
29. **A Sensitive and Selective Method For Simultaneous Determination of Sildenafil and Tadalafil in Tap Water and Sewage Sludge Samples by LC-QTOF-MS/MS**  
ÖZTÜRK ER E., BAKIRDERE S., ÖZBEK B.  
7th International IUPAC Conference on Green Chemistry, Moscow, Russia, 02 October 2017, pp.49
30. **Integration of Anti-Cancer Drugs on Carbon Nanodot**  
ŞİMŞEK S., ÖZBEK B., GENÇ R.  
14th International Conference on Nanosciences & Nanotechnologies (NN17), Selanik, Greece, 04 July 2017, pp.168

31. **An Evaluationary Study on in vitro Nanotoxicology of Fluorescent Carbon Dots**  
ŞİMŞEK S., YETKİN D., AKTAŞ A., BATTAL D., ÖZBEK B., GENÇ R.  
14th International Conference on Nanosciences & Nanotechnologies (NN17), Selanik, Greece, 04 July 2017, pp.144
32. **An experimental study on the optimization of subtilisin immobilization using eggshell waste**  
Özbek B., Bacak G., Ünal Ş.  
22nd International Congress of Chemical and Process Engineering (CHISA 2016), Praha, Czech Republic, 27 August 2016, pp.89
33. **Investigation of physical conditions on thermally synthesized carbon nanoparticles from Nerium oleander extracts**  
ŞİMŞEK S., ALAŞ M. Ö., ÖZBEK B., GENÇ R.  
22nd International Congress on Chemical and Process Engineering (CHISA 2016), Prag, Czech Republic, 27 August 2016
34. **Effects of microwave output power and sample amount on drying kinetics of samphire**  
ÖZBEK B., Altun E., DEMİRHAN YILMAZ E.  
22nd International Congress of Chemical and Process Engineering (CHISA 2016), Prag, Czech Republic, 27 August 2016
35. **Green synthesise of carbon nanoparticles from Nerium oleander extracts via two different microwave assisted methods**  
ŞİMŞEK S., ALAŞ M. Ö., ÖZBEK B., GENÇ R.  
22nd International Congress on Chemical and Process Engineering (CHISA 2016), Prag, Czech Republic, 27 August 2016
36. **A study on removal of reactive blue 19 from aqueous solutions by using potato shell powder**  
DEMİRHAN YILMAZ E., ÖZBEK B., Gemiköz A.  
22nd International Congress of Chemical and Process Engineering (CHISA 2016), Prag, Czech Republic, 27 August 2016
37. **Experimental study on drying kinetics of rocket leaves undergoing microwave drying**  
DEMİRHAN YILMAZ E., ÖZBEK B., Ayata Y.  
22nd International Congress of Chemical and Process Engineering (CHISA 2016), Prag, Czech Republic, 27 August 2016
38. **Comparison of national and international regulations about occupational health and safety responsibilities for underwater work**  
ÖZBEK B., Malay K.  
8. International Conference on Occupational Safety & Health, İstanbul, Turkey, 08 May 2016, pp.1
39. **Comparison of national and international regulations about occupational health and safety responsibilities in case of asbestos exposure**  
Şahan R., Özbek B.  
8. International Conference on Occupational Safety & Health, İstanbul, Turkey, 08 May 2016, pp.1
40. **An experimental study on hydrolysis of lactose in an ultrasonic bath**  
ÖZBEK B., ÜNAL Ş.  
10th European Congress of Chemical Engineering (ECCE10), Nice, France, 27 September 2015, pp.1124
41. **Effect of temperature on water absorption process for cowpea seeds**  
DEMİRHAN YILMAZ E., ÖZBEK B.  
10th European Congress of Chemical Engineering (ECCE10), Nice, France, 27 September 2015, pp.1613
42. **Effect of microwave output power on water absorption process for cowpea seeds undergoing microwave treatment**  
ÖZBEK B., DEMİRHAN YILMAZ E.  
10th European Congress of Chemical Engineering (ECCE10), Nice, France, 27 September 2015, pp.1612
43. **Biosorption of aluminium ions from aqueous solutions by using brewery waste**  
ŞİMŞEK S., ÜNAL Ş., ÖZBEK B.  
10th European Congress of Chemical Engineering (ECCE10), Nice, France, 27 September 2015, pp.1131
44. **An experimental study to optimize subtilisin immobilization using polymer-coated mesoporous silica nanoparticles**

- ÜNAL Ş., ÖZBEK B.  
10th European Congress of Chemical Engineering (ECCE10), Nice, France, 27 September 2015, pp.1125
45. **Effect of microwave output power and sample amount on colour change kinetics of tea leaves during microwave drying**  
ÖZBEK B., DEMİRHAN YILMAZ E.  
10th European Congress of Chemical Engineering (ECCE10), Nice, France, 27 September 2015, pp.1611
46. **Production of Green Reduced Graphene Oxide Hydroxyapatite Composites**  
ÖZTÜRK E., ÖZBEK B., ZAMAN A. C.  
10th European Congress of Chemical Engineering, 27 September - 01 October 2015
47. **Effect of blending ratio of polymer layer on structural properties of polymer-coated mesoporous silica nanoparticles**  
ÜNAL Ş., ÖZBEK B.  
International Nanotechnology Conference (NANOTECH FRANCE 2015), Paris, France, 15 June 2015, pp.17
48. **Bio-reduction of Graphene Oxide by Natural Products**  
ÖZTÜRK E., ŞİMŞEK S., ÖZBEK B.  
Nanotech France 2015 International Conference, Paris, France, 15 June 2015, pp.9
49. **A modeling study on kefir grain growth in whey enriched with additives**  
Özel B., Demirhan E., ÖZBEK B.  
21st International Congress of Chemical and Process Engineering (CHISA 2014), Prag, Czech Republic, 23 August 2014, pp.184
50. **Debitting of corn gluten hydrolysate Kinetics of hydrophobic peptide adsorption**  
KILIÇ APAR D., YILMAZ E., ÖZBEK B.  
21st International Congress of Chemical and Process Engineering (CHISA 2014), 23 - 27 August 2014, pp.185
51. **An experimental study on adsorption of ibuprofen on peanut shell**  
ÖZBEK B., YILDIRIM E. E., ÖZEREN H. D., YILMAZ E.  
21st International Congress of Chemical and Process Engineering (CHISA 2014), 23 - 27 August 2014, pp.103
52. **A study on aluminium removal from aqueous solutions using banana and lemon peels as bioadsorbent**  
ÖZBEK B., Mete M.  
21st International Congress of Chemical and Process Engineering (CHISA 2014), Prag, Czech Republic, 23 August 2014, pp.96
53. **A modeling study on kefir grain growth in whey enriched with additives**  
KILIÇ APAR D., ÖZEL B., YILMAZ E., ÖZBEK B.  
21st International Congress of Chemical and Process Engineering (CHISA 2014), 23 - 27 August 2014, pp.184
54. **Debitting of corn gluten hydrolysate: Kinetics of hydrophobic peptide adsorption**  
Demirhan E., ÖZBEK B.  
21st International Congress of Chemical and Process Engineering (CHISA 2014), Prag, Czech Republic, 23 August 2014, pp.185
55. **Synthesis optimization and characterization of polymer-coated mesoporous silica nanoparticles**  
Ünal Ş., Özbek B.  
21st International Congress of Chemical and Process Engineering (CHISA 2014), Praha, Czech Republic, 23 - 27 August 2014, pp.43
56. **Removal of Remazol Ultra Red RGB Dye from Aqueous Solutions by Adsorption onto Raw Lentil Husk**  
KURT Z., ÜNAL Ş., YILMAZ E., KILIÇ APAR D., ÖZBEK B.  
2nd International Conference on Environmental Science and Technology-2014, 14 - 17 May 2014, pp.175
57. **Removal of Remazol Ultra Red RGB Dye from Aqueous Solutions by Adsorption onto Raw Lentil Husk**  
Ünal Ş., Demirhan E., Kılıç Apar D., ÖZBEK B.  
2nd International Conference on Environmental Science and Technology-2014 (ICOEST'2014 - SIDE), Antalya, Turkey, 14 May 2014, pp.55
58. **Removal of Ibuprofen and Paracetamol from Aqueous Solutions by Adsorption on Lentil Husk**  
Altun E., Kılıç Apar D., ÖZBEK B.  
2nd International Conference on Environmental Science and Technology - 2014 (ICOEST'2014 - SIDE), Antalya, Turkey, 14 May 2014, pp.44-45

59. **Removal of Aluminium from Aqueous Solutions using Sesame Seed and Safflower Seed Cakes as Bioadsorbent**  
ÖZBEK B., Mete M.  
2nd International Conference on Environmental Science and Technology – 2014 (ICOEST'2014 - SIDE), Antalya, Turkey, 14 May 2014, pp.16-17
60. **Adsorption Characteristics of Reactive Blue 19 From Aqueous Solution onto Modified Commercial Activated Carbon**  
Özbek S., ÖZBEK B.  
1st International Porous and Powder Materials Symposium and Exhibition (PPM 2013), İzmir, Turkey, 03 September 2013, vol.1, pp.108
61. **Adsorption Characteristics of Reactive Blue 19 from Aqueous Solution onto Sesame and Safflower Seed Cakes**  
Ünal Ş., Özbek B.  
1st International Porous and Powder Materials Symposium and Exhibition (PPM 2013), İzmir, Turkey, 3 - 06 September 2013, pp.92
62. **Optimization of Rehydration Process of Dry Beans Phaseolus Vulgaris L under Ultrasonic Treatment by Using Response Surface Methodolgy**  
COŞKUN P. S., YILMAZ E., ÖZBEK B.  
1th International Chemistry and Chemical Engineering Conference (CCE-2013), 17 - 21 April 2013, pp.97
63. **Enhanced Surface Properties of Commercial Activated Carbon by Microwave Assisted Chemical Activation and Its Application for BSA Adsorption**  
Taşkın M. B., Özbek S., Özbek B.  
1st International Chemistry and Chemical Engineering Conference (CCE-2013), Baku, Azerbaijan, 17 April 2013, vol.1, pp.180
64. **An Experimental Study on Drying Kinetics of Tea Leaves Undergoing Microwave Heat Treatment**  
Demirhan Yılmaz E., Özbek B., Sert G., Harmanlı S. H.  
1th International Chemistry and Chemical Engineering Conference (CCE-2013), Baku, Azerbaijan, 17 - 21 April 2013, pp.74
65. **Optimization of Rehydration Process of Dry Beans (Phaseolus Vulgaris L.) under Ultrasonic Treatment by Using Response Surface Methodolgy**  
Demirhan E., ÖZBEK B.  
1st International Chemistry and Chemical Engineering Conference (CCE-2013), Baku, Azerbaijan, 17 April 2013, vol.1, pp.97
66. **Effects of Pretreatments on Sesame Cake Protein Hydrolysis, Solubilization and Enzyme Stability**  
DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.  
1st International Chemistry and Chemical Engineering Conference (CCE-2013), Baku, Azerbaijan, 17 April 2013, pp.101
67. **Kefir Biomass Production with Enriched Whey**  
Apar D. K., ÖZBEK B.  
1st International Chemistry and Chemical Engineering Conference (CCE-2013), Baku, Azerbaijan, 17 April 2013, vol.1, pp.73
68. **Susam Küspesi Protein Hidrolizatlarının Fonksiyonel Özelliklerine Hidroliz Derecesinin Etkisinin İncelenmesi**  
DEMİRHAN YILMAZ E., ÖZBEK B.  
17. Ulusal Biyoteknoloji Kongresi (BİYOTEKNOLOJİ 2012), İstanbul, Turkey, 23 September 2012, pp.112-116
69. **Effect of Hydrolysis Degree on Functional Properties of Sesame Cake Protein Hydrolysates**  
DEMİRHAN YILMAZ E., ÖZBEK B.  
New Biotechnology -15th European Congress on Biotechnology (ECB 2012), İstanbul, Turkey, 23 September 2012, pp.164
70. **Susam ve Susam Küspesi Substratlarının Hidroliz, Çözünürlük ve Enzim Aktivite Değerlerinin Karşılaştırılması**  
DEMİRHAN YILMAZ E., ÖZBEK B.

10. Ulusal Kimya Mühendisliği Kongresi (UKMK10 2012), İstanbul, Turkey, 03 September 2012, pp.6
71. **Removing of Bitterness of Corn Gluten Hydrolysate**  
KILIÇ APAR D., DEMİRHAN YILMAZ E., ÖZBEK B.  
Agrochemical and Food Technology, ANQUE ICCE 2012, Sevilla, Spain, 24 June 2012, pp.1
72. **The Effect of Microwave Drying on the Degradation of Vitamin C in Basil, Purslane and Celery Leaves**  
DEMİRHAN YILMAZ E., KILIÇ APAR D., AKPINAR Z., ÖZBEK B.  
4th International Congress on Food and Nutrition, İstanbul, Turkey, 12 October 2011, pp.198
73. **An Experimental Study on the Influence of Cu<sup>2+</sup>, Mn<sup>2+</sup> and PO<sub>4</sub>(<sup>3-</sup>) Ions on the Kefir Grain Biomass Increase**  
DEMİRHAN YILMAZ E., KILIÇ APAR D., YALCIN B. E., ÖZEL B., ÖZBEK B.  
4th International Congress on Food and Nutrition, İstanbul, Turkey, 12 October 2011, pp.157
74. **Effect of Temperature and pH on Kinetics of Sesame Cake Hydrolysis**  
Demirhan Yılmaz E., Kılıç Apar D., Özbek B.  
European Biotechnology Congress 2011, İstanbul, Turkey, 28 September - 01 October 2011, pp.81
75. **Experimental Study on the Effect of Mg<sup>2+</sup>, Zn<sup>2+</sup>, Ca<sup>2+</sup> and Fe<sup>3+</sup> Ions on Kefir Grain Biomass Propagation**  
Payer G., Kılıç Apar D., Demirhan Yılmaz E., Özbek B.  
European Biotechnology Congress 2011, İstanbul, Turkey, 28 September - 01 October 2011, pp.93
76. **Influence of Temperature and pH on Sesame Cake Protein Hydrolysis and Alcalase Stability**  
DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.  
1st European Congress of Applied Biotechnology (ECAB 2011), Berlin, Germany, 25 September 2011, pp.19
77. **Product Inhibition of Sesame Cake Protein Hydrolysis**  
DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.  
1st European Congress of Applied Biotechnology (ECAB 2011), Berlin, Germany, 25 September 2011, pp.20
78. **An Experimental Study on Skimmed Milk Lactose Hydrolysis in Various Reactor Types**  
AKGUL F. B., DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.  
1st European Congress of Applied Biotechnology (ECAB 2011), Berlin, Germany, 25 September 2011, pp.21
79. **Effect of Substrate and Enzyme Concentration on Sesame Cake Protein Hydrolysis and Alcalase Stability**  
DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.  
8th European Symposium on Biochemical Engineering Science (ESBES-8), Bologna, Italy, 05 September 2010, vol.1, pp.251
80. **pH-Stat Calibration for Sesame Cake Protein Hydrolysis by Alcalase**  
Yılmaz E., Kılıç Apar D., Özbek B.  
8th European Symposium on Biochemical Engineering Science (ESBES-8), Bologna, Italy, 5 - 08 September 2010, pp.252
81. **Drying Kinetics of Celery Leaves Undergoing Microwave Heat Treatment**  
DEMİRHAN YILMAZ E., ÖZBEK B.  
6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries (EMCC-6), Antalya, Turkey, 07 March 2010, vol.1, pp.276
82. **Colour Change Kinetics of Celery Leaves During Microwave Drying**  
DEMİRHAN YILMAZ E., ÖZBEK B.  
6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries (EMCC-6), Antalya, Turkey, 07 March 2010, vol.1, pp.277
83. **Covalent Conjugation of  $\beta$  Galactosidase Enzyme with copolymers of Acrylic acid and N Vinylpyrrolidone 2**  
DERMAN S., DEMİRHAN E., AKDESTE Z., ÖZBEK B.  
International Enzyme Engineering Symposium, 4 - 09 July 2009
84. **Covalent Conjugation of  $\beta$  Galactosidase Enzyme with Polyacrylic acid**  
DERMAN S., DEMİRHAN E., AKDESTE Z., ÖZBEK B.  
International Enzyme Engineering Symposium, 4 - 09 July 2009
85. **Covalent Conjugation of Galactosidase Enzyme with Copolymers of Acrylic Acid and N Vinylpyrrolidine 2**  
DERMAN S., YILMAZ E., AKDESTE Z., ÖZBEK B.

- International Enzyme Engineering Symposium (IEES'08), 1 - 05 October 2008, pp.76
86. **Kinetics of Corn Gluten Hydrolysis by Alcalase**  
KILIÇ APAR D., ÖZBEK B.  
International Enzyme Engineering Symposium (IEES-08), Aydın, Turkey, 01 October 2008, vol.1, pp.116
87. **Effects of Pretreatments on Corn Gluten Hydrolysis and Enzyme Stability**  
KILIÇ APAR D., ÖZBEK B.  
International Enzyme Engineering Symposium (IEES-08), Aydın, Turkey, 01 October 2008, vol.1, pp.115
88. **Covalent Conjugation of Galactosidase Enzyme with Polyacrylic Acide**  
DERMAN S., YILMAZ E., AKDESTE Z., ÖZBEK B.  
International Enzyme Engineering Symposium (IEES'08), 1 - 05 October 2008, pp.75
89. **Covalent Conjugation of Beta-Galactosidase Enzyme with Polyacrylic Acide**  
DERMAN S., DEMİRHAN YILMAZ E., Akdeste Z., ÖZBEK B.  
International Enzyme Engineering Symposium (IEES-08), Aydın, Turkey, 01 October 2008, vol.1, pp.75
90. **Covalent Conjugation of Beta-Galactosidase Enzyme with Copolymers of Acrylic Acid and N-Vinylpyrrolidone-2**  
DERMAN S., DEMİRHAN YILMAZ E., Akdeste Z., ÖZBEK B.  
International Enzyme Engineering Symposium (IEES-08), Aydın, Turkey, 01 October 2008, vol.1, pp.76
91. **Kinetics of Wheat Gluten Hydrolysis by Alcalase**  
KILIÇ APAR D., Atmaca A., ÖZBEK B.  
International Enzyme Engineering Symposium (IEES'08), Aydın, Turkey, 01 October 2008, pp.112
92. **Corn Gluten Hydrolysis by Neutrase: Kinetics of Hydrolysis and Solubilization**  
KILIÇ APAR D., ÖZBEK B.  
International Enzyme Engineering Symposium (IEES-08), Aydın, Turkey, 01 October 2008, vol.1, pp.113
93. **Colour Change Kinetics of Basil During Microwave Drying**  
DEMİRHAN YILMAZ E., ÖZBEK B.  
18th International Congress of chemical and process engineering (CHISA 2008), Prag, Czech Republic, 24 August 2008, vol.1, pp.1611
94. **Rehydration Kinetics of Basil During Microwave Drying**  
DEMİRHAN YILMAZ E., ÖZBEK B.  
18th International Congress of chemical and process engineering (CHISA 2008), Prag, Czech Republic, 24 August 2008, vol.1, pp.1612
95. **Microwave Drying Kinetics of Basil**  
DEMİRHAN YILMAZ E., ÖZBEK B.  
18th International Congress of chemical and process engineering (CHISA 2008), Prag, Czech Republic, 24 August 2008, vol.1, pp.1610
96. **Sonikasyon Parametrelerinin Sütteki Laktoz ve Paynir Altı Suyundan Elde Edilen Laktozun Hidrolizi ve Enzim Aktivitesine Etkisinin İncelenmesi**  
DEMİRHAN YILMAZ E., Şener N., KILIÇ APAR D., ÖZBEK B.  
15. Ulusal Biyoteknoloji Kongresi (BİYOTEKNOLOJİ 2007), Antalya, Turkey, 28 October 2007, pp.50
97. **Porosity Analysis of Spinach and Okra Dried Under Microwave Treatment**  
Dadalı G., YILMAZ E., KILIÇ APAR D., ÖZBEK B.  
2nd International Congress on Food and Nutrition (ICFN-2), İstanbul, Turkey, 24 October 2007, vol.1, pp.229
98. **Microwave drying kinetics of mint leaves**  
ÖZBEK B., Dadalı G.  
2nd International Congress on Food and Nutrition (ICFN-2), İstanbul, Turkey, 24 October 2007, vol.1, pp.228
99. **Kinetic thermal degradation of vitamin C in both okra and spinach undergoing microwave drying**  
Dadalı G., ÖZBEK B.  
2nd International Congress on Food and Nutrition (ICFN-2), İstanbul, Turkey, 24 October 2007, vol.1, pp.229
100. **Microwave heat treatment of leek**  
Dadalı G., Özbek B.  
2nd International Congress on Food and Nutrition (ICFN-2), İstanbul, Turkey, 24 - 26 October 2007, vol.1, pp.228
101. **Estimation of Kinetic Parameters for Whey Lactose Hydrolysis Inhibited by Glucose and Galactose**



Demirhan Yilmaz E., Kılıç Apar D., Özbek B.

13th European Congress on Biotechnology (ECB-13), Barcelona, Spain, 16 - 19 September 2007

102. **Effect of Glucose and Galactose on Whey Lactose Hydrolysis and Enzyme Stability Under Sonic Treatment**

DEMİRHAN YILMAZ E., ÖZBEK B.

13th European Congress on Biotechnology (ECB-13), Barcelona, Spain, 16 September 2007, vol.1

103. **Investigation of Whey Lactose Hydrolysis and Enzyme Stability by a Sonifier**

DEMİRHAN YILMAZ E., ÖZBEK B.

13th European Congress on Biotechnology (ECB-13), Barcelona, Spain, 16 September 2007, vol.1

104. **Rehydration Kinetics of Okra and Spinach During Microwave Drying**

Dadalı G., KILIÇ APAR D., DEMİRHAN YILMAZ E., ÖZBEK B.

17th International Congress of chemical and process engineering (CHISA 2006), Prag, Czech Republic, 27 August 2006, vol.1, pp.1409

105. **Microwave Drying Kinetics of Okra and Spinach**

Dadalı G., KILIÇ APAR D., YILMAZ E., ÖZBEK B.

17th International Congress of chemical and process engineering (CHISA 2006), Prag, Czech Republic, 27 August 2006, pp.1408

106. **Colour Change Kinetics of Okra and Spinach During Microwave Drying**

Dadalı G., KILIÇ APAR D., DEMİRHAN YILMAZ E., ÖZBEK B.

17th International Congress of chemical and process engineering (CHISA 2006), Prag, Czech Republic, 27 August 2006, vol.1, pp.1407

107. **Effect of Substrate and Enzyme Concentration on Corn Gluten Hydrolysis and Alcalase Stability**

KILIÇ APAR D., ÖZBEK B.

6th European Symposium on Biochemical Engineering Science (ESBES-6), Salzburg, Austria, 27 August 2006, vol.1, pp.128

108. **Effect of Process Variables on Whey Lactose Hydrolysis and Enzyme Stability**

DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.

6th European Symposium on Biochemical Engineering Science (ESBES-6), Salzburg, Austria, 27 August 2006, vol.1, pp.130

109. **Influence of Mg<sup>2+</sup>, Mn<sup>2+</sup> and Ca<sup>2+</sup> Ions on Whey Lactose Hydrolysis and Enzyme Stability**

YILMAZ E., KILIÇ APAR D., ÖZBEK B.

6th European Symposium on Biochemical Engineering Science (ESBES-6), Salzburg, Austria, 27 - 30 August 2006, pp.132

110. **Temperature and pH effect on Corn Gluten Hydrolysis and Alcalase Stability**

KILIÇ APAR D., ÖZBEK B.

6th European Symposium on Biochemical Engineering Science (ESBES-6), Salzburg, Austria, 27 August 2006, vol.1, pp.127

111. **Influence of Mg, Mn and Ca Ions on Whey Lactose Hydrolysis and Enzyme Stability**

DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.

6th European Symposium on Biochemical Engineering Science (ESBES-6), Salzburg, Austria, 27 August 2006, vol.1, pp.132

112. **Product Inhibition Kinetics for Corn Gluten Hydrolysis**

KILIÇ APAR D., ÖZBEK B.

6th European Symposium on Biochemical Engineering Science (ESBES-6), Salzburg, Austria, 27 August 2006, vol.1, pp.129

113. **Effect of Hydrolysis Products of Whey Lactose on Hydrolysis and Enzyme Stability**

DEMİRHAN YILMAZ E., KILIÇ APAR D., ÖZBEK B.

6th European Symposium on Biochemical Engineering Science (ESBES-6), Salzburg, Austria, 27 August 2006, vol.1, pp.131

114. **Effect of Temperature, pH and Viscosity on Enzymatic Hydrolysis of Corn Gluten**

Kılıç Apar D., Özbek B.

12th European Congress on Biotechnology (ECB12), Kobenhavn, Denmark, 21 August 2005, vol.1

115. **Effect of Substrate, Enzyme and Hydrolysate Concentration on Corn Gluten Hydrolysis**  
Kılıç Apar D., Özbek B.  
12th European Congress on Biotechnology (ECB12), Kobenhavn, Denmark, 21 - 24 August 2005
116. **A Modelling Study on Enzymatic Hydrolysis of Milk Lactose by a Sonifier**  
Şener N., Kılıç Apar D., Özbek B.  
12th European Congress on Biotechnology (ECB12), Kobenhavn, Denmark, 21 - 24 August 2005
117. **Enzymatic Hydrolysis of Lactose Recovered from Whey**  
Dırak E., KILIÇ APAR D., Şener N., ÖZBEK B.  
5th European Symposium on Biochemical Engineering Science (ESBES-5), Stuttgart, Germany, 08 September 2004, vol.1, pp.137
118. **Effects of Process Parameters on Oxygen Mass Transfer Coefficient by Using Activated Carbon in a Bioreactor**  
Berkyürek G., KILIÇ APAR D., ÖZBEK B.  
5th European Symposium on Biochemical Engineering Science (ESBES-5), Stuttgart, Germany, 08 September 2004, vol.1, pp.133-134
119. **Protein Releasing from Baker's Yeast Cells Disrupted by a Sonifier**  
KILIÇ APAR D., ÖZBEK B.  
5th European Symposium on Biochemical Engineering Science (ESBES-5), Stuttgart, Germany, 08 September 2004, pp.128
120. **Investigation of Hydrolysis of Wheat Starch and Stability of Alpha-Amylase by a Sonifier**  
KILIÇ APAR D., Turhan M., ÖZBEK B.  
5th European Symposium on Biochemical Engineering Science (ESBES-5), Stuttgart, Germany, 08 September 2004, vol.1, pp.135-136
121. **A Modelling Study on Enzymatic Hydrolysis of Milk Lactose in a Batch Reactor**  
Şener N., KILIÇ APAR D., ÖZBEK B.  
5th European Symposium on Biochemical Engineering Science (ESBES-5), Stuttgart, Germany, 08 September 2004, vol.1, pp.131-132
122. **Estimation of Kinetic Parameters for Rice Starch Hydrolysis Inhibited by Added Materials**  
Kılıç Apar D., Özbek B.  
5th European Symposium on Biochemical Engineering Science (ESBES-5), Stuttgart, Germany, 8 - 11 September 2004, pp.129-130
123. **The Investigation of the Hydrolysis of Starch and Stability of Alpha-Amylase Enzyme by a Sonifier**  
KILIÇ APAR D., ÖZBEK B.  
11th European Congress on Biotechnology (ECB11), Basel, Switzerland, 24 August 2003, vol.1, pp.170
124. **The Effects of the Process Parameters on Alpha Amylase Enzyme Activity During Rice Starch Hydrolysis Process**  
Kılıç Apar D., Özbek B.  
27th International Exhibition-Congress on Chemical Engineering, Environmental Protection and Biotechnology, Frankfurt, Germany, 19 - 24 May 2003, vol.1, pp.61
125. **Pirinç ve Mısır Nişastalarının Hidrolizlenmesinde; Hidrolizat, Glikoz, Maltoz, Etanol ve CaCl<sub>2</sub>'nin Alfa-Amilaz Enzim Aktivitesine Etkilerinin İncelenmesi**  
KILIÇ APAR D., ÖZBEK B.  
Beşinci Ulusal Kimya Mühendisliği Kongresi, Ankara, Turkey, 02 September 2002, vol.1, pp.4
126. **The Effects of Hydrolysate, Glucose, Maltose, Ethanol and CaCl<sub>2</sub> on the Alpha Amylase Enzyme Activity During Corn Starch Hydrolysis Process**  
KILIÇ APAR D., ÖZBEK B.  
4th European Symposium on Biochemical Engineering Science (ESBES-4), Delft, Netherlands, 28 August 2002, vol.1, pp.143
127. **The Effect of Temperature on the Activities of Alpha Amylase Enzymes during Hydrolysis Process of Wheat, Corn and Rice Starch**  
KILIÇ APAR D., ÖZBEK B.  
4th European Symposium on Biochemical Engineering Science (ESBES-4), Delft, Netherlands, 28 August 2002, vol.1,

pp.142

128. **The Effects of Hydrolysate, Glucose, Maltose, Ethanol and CaCl<sub>2</sub> on the Alpha Amylase Enzyme Activity During Rice Starch Hydrolysis Process**  
Kılıç Apar D., Özbek B.  
4th European Symposium on Biochemical Engineering Science (ESBES-4), Rotterdam, Netherlands, 28 - 31 August 2002, pp.144
129. **Investigation of the Effects of the Process Parameters on the Alpha Amylase Enzyme Activity During Corn Starch Hydrolysis Process**  
Kılıç Apar D., Özbek B.  
4th European Symposium on Biochemical Engineering Science (ESBES-4), Rotterdam, Netherlands, 28 - 31 August 2002, pp.141
130. **Investigation of the effect of the environmental conditions on the disruption process**  
ÖZBEK B., Lovitt R.  
Second Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean (EMCC-2), Ankara, Turkey, 20 May 2001, vol.1, pp.41
131. **The effects of cell disruption equipments on the enzyme activity**  
ÖZBEK B., Ülgen K.  
Second Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean (EMCC-2), Ankara, Turkey, 20 May 2001, vol.1, pp.36
132. **Investigation of the effect of enzyme concentration on hydrolysis of wheat gluten using enzymes of PROMOD 144 and P4032**  
ÖZBEK B., Lovitt R.  
Second Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean (EMCC-2), Ankara, Turkey, 20 May 2001, vol.1, pp.42
133. **Investigation of the effect of substrate concentration on hydrolysis of wheat gluten using enzymes of PROMOD 144 and P4032**  
Özbek B., Lovitt R.  
Second Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean (EMCC-2), Ankara, Turkey, 20 - 24 May 2001, pp.35
134. **Investigation of the Effects of the Process Parameters on the Oxygen Mass Transfer Coefficient in a Bioreactor**  
ÖZBEK B., Gayık S.  
BIOTECHNOLOGY 2000 - The World Congress on Biotechnology, Berlin, Germany, 03 September 2000, vol.1, pp.108-110
135. **Investigation of the Effects of the Process Parameters on the Alpha-Amylase Enzyme Activity During the Starch Hydrolysis Process**  
ÖZBEK B., Yüceer S.  
BIOTECHNOLOGY 2000 - The World Congress on Biotechnology, Berlin, Germany, 03 September 2000, vol.1, pp.411-413
136. **The Investigation of Deactivation of Enzymes by a Sonifier**  
ÖZBEK B., Ülgen K.  
Research 2000: Stretching the Boundaries of Chemical Engineering, ICHIME Research Event, Bath, United Kingdom, 06 January 2000, vol.1, pp.54
137. **Determination of the Stabilities of Various Components of the Control Serums in Lyophilised Form**  
ÖZBEK B., Karavelioğlu H.  
9th European Congress on Biotechnology (ECB9), Brüksel, Belgium, 12 July 1999, vol.1, pp.1-4
138. **Solubilisation Studies on the Enzymatic Hydrolysis of Wheat Gluten**  
ÖZBEK B., Lovitt R.  
9th European Congress on Biotechnology (ECB9), Brüksel, Belgium, 12 July 1999, vol.1, pp.1-6
139. **The Deactivation of the Enzymes by a Cell Disrupter**  
ÖZBEK B., Coss G., Lovitt R.  
ICHEME Research Event, Biotechnology, Bioprocessing and Food Processing, Newcastle, United Kingdom, 07 April

- 1998, vol.1, pp.1-8
140. **Mathematical Modelling and Simulation Studies of Two Backmix Flow Reactors in Combination with One Plug Flow Tubular Reactor**  
ÖZBEK B.  
ICHEME Research Event, Biotechnology, Bioprocessing and Food Processing, Newcastle, United Kingdom, 07 April 1998, vol.1, pp.1-8
141. **Estimation of The Kinetic Parameters of Escherichia coli K12 (9481) in Batch and Continuous Cultures**  
Özbek B., Lovitt R.  
ICHEME Jubilee Research Event, Biotechnology, Bioprocessing and Food Processing, Nottingham, United Kingdom, 7 - 09 April 1997, pp.921-924
142. **Kombine Biyoreaktörler Sisteminde, Kültür Geri Dönüşü, Hacim Fraksiyonun Mikrobiyal Üreme Üzerine Etkilerinin İncelenmesi İçin Yapılan Simulasyon Çalışmaları**  
ÖZBEK B.  
İkinci Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, 09 September 1996, vol.2, pp.930-935
143. **Bakırın In-Situ Yöntemiyle Ekstraksiyonunun Nümerik Modellenmesi**  
Öner G., Öner M., ÖZBEK B.  
İkinci Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, 09 September 1996, vol.1, pp.279-284
144. **Scale-down Fermentation Using Escherichia coli K12**  
ÖZBEK B., Lovitt R.  
First International Conference on Science, Engineering and Technology of Intensive Processing, Nottingham, United Kingdom, 18 September 1995, vol.1, pp.197-200
145. **Scale-down Fermentations Using E. coli K12: Mathematical Modelling and Simulation Studies**  
ÖZBEK B., Lovitt R.  
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>                   | Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Kimya Mühendisliği Bölümü |
| 2016 - 2021 | <b>Head of Department</b>                   | Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Kimya Mühendisliği Bölümü |
| 2016 - 2021 | <b>Academic Performance D. Board Member</b> | Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Kimya Mühendisliği Bölümü |
| 2016 - 2021 | <b>Fakülte Akademik Kurul Üyesi</b>         | Yildiz 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  |
| 1999 - 2003 | <b>Fakülte Yönetim Kurulu Üyesi</b>         | Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Kimya Mühendisliği Bölümü  |

### Advising Theses

Özbek B., Kiraz Sapı Ve Ceviz İç 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

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

Özbek B., Mikrodalga Tekniği ile Kurutulan Güvem Eriği Kabuklarının Kuruma, Renk Değişim ve Rehidratasyon Özelliklerinin İncelenmesi ve Modellenmesi, Postgraduate, E.ÖZDEN(Student), 2021

Özbek B., Beta-Galactosidase Enziminin Kabak Lifi ve Pirinç Kabuğuna İmmobilizasyonunun Optimizasyonu: Laktoz Hidrolizinin İncelenmesi, Doctorate, F.AKGÜLTANER(Student), 2021

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., Genç R., N. Oleander Ekstrelerinden Elde Edilen Karbon Nanodotların Meme Kanseri Hücreleri Üzerindeki In Vitro Sitotoksik ve Genotoksik Etkilerinin İncelenmesi, Doctorate, S.ŞİMŞEKKEKEVİ(Student), 2019

Özbek B., Metilen Mavisi Boyasının Sulu Çözeltilerden Susam Küsperi 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

Özbek B., Çamaşır Makinesinden Tahliye Edilen Atık Suyun Tekrarlı Kullanımı İle Deterjan Dozajının Ve Suyun Optimizasyonu, Postgraduate, M.ÇELİK(Student), 2018

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

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

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

ÖZBEK B., Sualtı Çalışmalarında İş Sağlığı ve Güvenliği Sorumlulukları, Postgraduate, K.Malay(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., Mikrodalga Tekniği Kullanılarak Kurutulan Gıdaların C Vitamini İçeriğinin İncelenmesi ve Modellenmesi, Postgraduate, Z.Akpınar(Student), 2012

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

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

ÖZBEK B., Bamya ve Ispanağın Mikrodalga Tekniği Kullanılarak Kurutulması, Doku ve Renk Özelliklerinin İncelenmesi ve Modellenmesi, Postgraduate, G.Dadalı(Student), 2007

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

ÖZBEK B., Mısır Nişastasının Hidrolizinde Alfa-Amilaz Enziminin Aktivitesinin İncelenmesi, Postgraduate, D.Kılıç(Student), 2002

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

ÖZBEK B., Karıştırmalı Bir Biyoreaktörde Oksijen Transferini Etkileyen Parametrelerin İncelenmesi, Postgraduate, S.Gayık(Student), 2000

ÖZBEK B., İnsan Serumlarından Kontrol Serumu Elde Edilmesi ve Stabilesinin İncelenmesi, Postgraduate, H.Karavelioğlu(Student), 1998

## Scientific Refereeing

HEAT AND MASS TRANSFER, SCI Journal, May 2017

HEAT AND MASS TRANSFER, SCI Journal, May 2017

HEAT AND MASS TRANSFER, SCI Journal, April 2017

DRYING TECHNOLOGY, SCI Journal, March 2017

HEAT AND MASS TRANSFER, SCI Journal, February 2017

JOURNAL OF FOOD SCIENCE, SCI Journal, February 2017

JOURNAL OF FOOD PROCESS ENGINEERING, SCI Journal, February 2017

APPLIED THERMAL ENGINEERING, SCI Journal, February 2017

APPLIED THERMAL ENGINEERING, SCI Journal, January 2017

HEAT AND MASS TRANSFER, SCI Journal, January 2017

CZECH JOURNAL OF FOOD SCIENCES, SCI Journal, January 2017

Birinci Uluslararası Kimya ve Kimya Mühendisliği Konferansı (CCE-2013), SCI Journal, January 2013

Chemical Engineering Communications, SCI Journal, May 2012

Journal of Industrial and Engineering Chemistry, SCI Journal, April 2012

Applied Biochemistry and Biotechnology, SCI Journal, April 2012

## Metrics

Publication: 229

Citation (WoS): 1589

Citation (Scopus): 2135

H-Index (WoS): 20

H-Index (Scopus): 24

## 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