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Uluslararası Araştırmacı ID'leri

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Öğrenim Bilgisi

Doktora 1988 - 1993	University of Wales, Swansea, Faculty Of Engineering, Chemical And Bioprocess Engineering Department, United Kingdom, Birleşik Krallık
Yüksek Lisans 1985 - 1987	Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Müh.Bölümü, Türkiye
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Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, 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

Yüksek Lisans, Çan, Keles ve Ağaçlı Linyitlerinin Anorganik Artıklarının Giderilmesi , Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Müh.Bölümü, 1987

Akademik Unvanlar / Görevler

Prof. Dr. 2003 - Devam Ediyor	Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Müh.Bölümü
Doç. Dr. 1997 - 2003	Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Müh.Bölümü

Yrd. Doç. Dr.
1994 - 1997

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Araştırma Görevlisi Dr.
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Araştırma Görevlisi
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University of Wales, Swansea, United Kingdom-İngiltere, Faculty of Engineering,
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Araştırma Görevlisi
1986 - 1988

Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Müh.Bölümü

Desteklenen Projeler

1. ÖZBEK B., ŞİDİM G., DOĞU M., Yükseköğretim Kurumları Destekli Proje, Katmanlı İmalat Teknolojilerine Yönelik Özellikleri İyileştirilmiş Fıtil/Filaman Geliştirilmesi, 2022 - Devam Ediyor
2. ÖZBEK B., KARBUZ P., DOĞU M., Yükseköğretim Kurumları Destekli Proje, Yüksek Performanslı Termoplastik Kompozitler için Otomatik Elyaf SerimSarım Sistemleri ile Profil Üretim Yöntemi Geliştirilmesi, 2022 - Devam Ediyor
3. ÖZBEK B., KOÇYİĞİT H. N., Yükseköğretim Kurumları Destekli Proje, 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., Yükseköğretim Kurumları Destekli Proje, 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., Yükseköğretim Kurumları Destekli Proje, 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., Yükseköğretim Kurumları Destekli Proje, Kemik Doku Mühendisliği Uygulamalarında Kullanılacak HidroksiapatitGrafen OksitKitosan Doku İskelesinin Süper Kritik Jel Kurutma Tekniği Kullanılarak Üretimi ve Karakterizasyonu, 2018 - 2020
7. ÖZBEK B., TÜBİTAK Projesi, Al2O3 Katkılı Nanolübrikanların Hazırlanması ve Reolojik Özelliklerinin Modellenmesi, 2018 - 2019
8. Çelik M., Dalak E., Ülger Z., Özbek B., Diğer Özel Kurumlarca Desteklenen Proje, Çamaşır Makinelerinde Deterjanın Aktif Bileşenlerinin Tekrarlı Kullanımının Optimizasyonu, 2017 - 2018
9. Yılmaz E., Özbek B., Yükseköğretim Kurumları Destekli Proje, Farklı Karakterdeki Adsorbanlar ile Sudaki Kirleticilerin Adsorpsiyonu, 2015 - 2018
10. ÖZBEK B., YILMAZ E., Yükseköğretim Kurumları Destekli Proje, #-Amilaz, alkalaz ve #-galaktozidaz enzimlerinin çeşitli adsorban yüzeylerine immobilizasyonunun optimizasyonu ve immobilize enzimlerin sıcaklık, pH ve zaman stabiliteilerinin incelenmesi, 2012 - 2017
11. ÖZBEK B., ÖZTÜRK ER E., Yükseköğretim Kurumları Destekli Proje, Grafen oksitin doğal kaynaklı ürünler ile indirgenmesi ve indirgenmiş grafen oksit; hidroksiapatit kompozitlerin üretilmesi, 2015 - 2015
12. ÖZBEK B., Yükseköğretim Kurumları Destekli Proje, Polimer Kaplı Mezo Gözenekli Silika Nanoparçacık Sentezi, Karakterizasyonu ve Enzim İmmobilizasyonunda Kullanımı, 2014 - 2015
13. ÖZBEK B., YILMAZ E., Yükseköğretim Kurumları Destekli Proje, Çeşitli Absorbentlere Protein Adsorpsiyonunun İncelenmesi, 2011 - 2015
14. ÖZBEK B., Yükseköğretim Kurumları Destekli Proje, Sonikasyon Ortamında Baklagillerin Su Alma Özelliklerinin İncelenmesi, 2012 - 2014
15. Kılıç D., Özbek B., Yılmaz E., Yükseköğretim Kurumları Destekli Proje, Mısır Gluteni Hidrolizatının Acı Tadının Giderilmesi, 2009 - 2012
16. ÖZBEK B., YILMAZ E., Yükseköğretim Kurumları Destekli Proje, Susam Küspesindeki Proteinin Hidrolizi: Proses Parametrelerinin Optimizasyonu, Hidroliz, Çözünürlük, Enzim İnaktivasyon Kinetiği ve Fonksiyonel Özelliklerinin

İncelenmesi, 2009 - 2012

17. ÖZBEK B., Yükseköğretim Kurumları Destekli Proje, β-galactosidase Enzimi ile Yağsız Sütte Laktoz Hidrolizinin İncelenmesi ve Modellenmesi, 2010 - 2010
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20. ÖZBEK B., Diğer Özel Kurumlarca Desteklenen Proje, Sütteki Laktozun Enzimatik Yolla Hidrolizinin İncelenmesi, 2003 - 2005
21. KILIÇ APAR D., ÖZBEK B., TÜBİTAK Projesi, Mısır Gluteninin Enzimatik Hidrolizi, 2003 - 2005
22. ÖZBEK B., KILIÇ APAR D., Yükseköğretim Kurumları Destekli Proje, Buğday Gluteninin Enzimatik Hidrolizini Etkileyen Proses Parametrelerinin İncelenmesi ve Optimizasyonu, 2003 - 2005
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24. KILIÇ APAR D., ÖZBEK B., TÜBİTAK Projesi, Mısır Nişastasının Enzimatik Hidrolizinin Optimizasyonu, 2001 - 2002
25. KILIÇ APAR D., ÖZBEK B., Yükseköğretim Kurumları Destekli Proje, Çeşitli Nişastaların Enzimatik Hidrolizinin Optimizasyonu, 2000 - 2002
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28. ÖZBEK B., Yükseköğretim Kurumları Destekli Proje, Biyoreaktörde Oksijen Transfer Katsayısının Belirlenmesi ve Alfa-Amilaz Enziminin Stabilitésinin İncelenmesi, 1998 - 2000
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31. ÖZBEK B., Diğer Uluslararası Fon Programları, Solubilisation Studies on the Enzymatic Hydrolysis of Wheat Gluten, 1998 - 1998
32. ÖZBEK B., Yükseköğretim Kurumları Destekli Proje, Endüstriyel Biyoreaktörlerin Simulasyonu, 1994 - 1997
33. ÖZBEK B., Diğer Uluslararası Fon Programları, The Deactivation of the Enzymes by a Cell Disrupter, 1996 - 1996

Burslar

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

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

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. **Manufacturing and characterization of continuous carbon fiber reinforced polyphenylene sulfide filaments via melt impregnation method**
Sidim G., Dogu M., Özbek B.
Polymer Composites, cilt.46, sa.1, ss.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, cilt.16, sa.24, ss.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, cilt.129, ss.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, cilt.14, sa.21, ss.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, cilt.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, cilt.1667, 2022 (SCI-Expanded)
7. **Microwave drying effect on drying characteristic and energy consumption of Ficus carica Linn leaves**
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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**
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DESALINATION AND WATER TREATMENT, cilt.224, ss.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, cilt.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, cilt.10, sa.1, ss.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, cilt.191, ss.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, cilt.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.
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14. **Fluorescent Carbon Dots from Nerium oleander: Effects of Physical Conditions and the Extract Types**
Simsek S., Alas M. Ö., Özbek B., Genç R.
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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, cilt.147, ss.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**
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Journal of Materials Research and Technology, cilt.8, ss.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, cilt.8, sa.2, ss.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, cilt.42, ss.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, cilt.124, ss.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, cilt.48, ss.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, cilt.34, ss.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, cilt.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, cilt.4, sa.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, cilt.48, sa.2, ss.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, cilt.45, ss.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, cilt.45, sa.2, ss.113-118, 2015 (SCI-Expanded)
27. **Color Change Kinetics of Tea Leaves During Microwave Drying**
Demirhan E., ÖZBEK B.
INTERNATIONAL JOURNAL OF FOOD ENGINEERING, cilt.11, sa.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.
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29. **Influence of vitamin (B-1, B-6, B-9, B-12, C) and ions (Cu²⁺, Mn²⁺, PO₄ (3-)) on kefir grain biomass growth**
Demirhan E., GURSES B., YALCIN B. E., Apar D. K., ÖZBEK B.
FOOD SCIENCE AND BIOTECHNOLOGY, cilt.22, sa.4, ss.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, cilt.200, sa.5, ss.655-666, 2013 (SCI-Expanded)
31. **A Modelling study on skimmed milk lactose hydrolysis and beta-galactosidase stability using three reactor types**
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32. **Corn gluten hydrolysis by Alcalase: Calibration of pH-stat**
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33. **A modelling study on kefir grain biomass growth: Influence of various minerals**
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INTERNATIONAL JOURNAL OF DAIRY TECHNOLOGY, cilt.64, sa.3, ss.402-407, 2011 (SCI-Expanded)
34. **COLOR CHANGE KINETICS OF CELERY LEAVES UNDERGOING MICROWAVE HEATING**
Demirhan E., ÖZBEK B.
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35. **THIN-LAYER DRYING CHARACTERISTICS AND MODELING OF CELERY LEAVES UNDERGOING MICROWAVE TREATMENT**
Demirhan E., ÖZBEK B.
CHEMICAL ENGINEERING COMMUNICATIONS, cilt.198, sa.7, ss.957-975, 2011 (SCI-Expanded)
36. **Sesame cake protein hydrolysis by alcalase: Effects of process parameters on hydrolysis, solubilisation, and enzyme inactivation**
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KOREAN JOURNAL OF CHEMICAL ENGINEERING, cilt.28, sa.1, ss.195-202, 2011 (SCI-Expanded)
37. **A Kinetic Study on Sesame Cake Protein Hydrolysis by Alcalase**
Demirhan E., Apar D. K., ÖZBEK B.
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38. **Drying kinetics and effective moisture diffusivity of purslane undergoing microwave heat treatment**
Demirhan E., ÖZBEK B.
KOREAN JOURNAL OF CHEMICAL ENGINEERING, cilt.27, sa.5, ss.1377-1383, 2010 (SCI-Expanded)
39. **REHYDRATION KINETICS OF MICROWAVE-DRIED BASIL**
Demirhan E., ÖZBEK B.
JOURNAL OF FOOD PROCESSING AND PRESERVATION, cilt.34, sa.4, ss.664-680, 2010 (SCI-Expanded)
40. **MICROWAVE-DRYING CHARACTERISTICS OF BASIL**
Demirhan E., ÖZBEK B.
JOURNAL OF FOOD PROCESSING AND PRESERVATION, cilt.34, sa.3, ss.476-494, 2010 (SCI-Expanded)
41. **A modelling study on hydrolysis of whey lactose and stability of beta-galactosidase**
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42. **CORN GLUTEN HYDROLYSIS BY ALCALASE: KINETICS OF HYDROLYSIS**
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43. **REHYDRATION KINETICS OF MICROWAVE-DRIED OKRAS AS AFFECTED BY DRYING CONDITIONS**
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45. **A MODELING STUDY ON HYDROLYSIS OF LACTOSE RECOVERED FROM WHEY AND -GALACTOSIDASE STABILITY UNDER SONIC TREATMENT**
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46. **Kinetic thermal degradation of vitamin C during microwave drying of okra and spinach**
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49. **Microwave heat treatment of leek: drying kinetic and effective moisture diffusivity**
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INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, cilt.43, sa.8, ss.1443-1451, 2008 (SCI-Expanded)
50. **Corn gluten hydrolysis by Alcalase: Effects of process parameters on hydrolysis solubilization and enzyme inactivation**
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51. **Milk lactose hydrolysis in a batch reactor: Optimisation of process parameters, kinetics of hydrolysis and enzyme inactivation**
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52. **Effect of hydrolysis products and Mg²⁺, Mn²⁺ and Ca²⁺ ions on whey lactose hydrolysis and beta-galactosidase stability**
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Akademik İdari Deneyim

2011 - 2022	Anabilim/Bilim Dalı Başkanı	Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü
2016 - 2021	Bölüm Başkanı	Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü
2016 - 2021	Akademik Performans D. Kurulu Üyesi	Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü
2016 - 2021	Fakülte Akademik Kurul Üyesi	Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü
2008 - 2011	Fakülte Yönetim Kurulu Üyesi	Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü
2003 - 2004	Bölüm Başkan Yardımcısı	Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü
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Yönetilen Tezler

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