

# Prof. UFUK GÜNDÜZ

## Personal Information

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## Education Information

Doctorate, Iowa State University, Mühendislik Fakültesi, United States Of America 1987 - 1992

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, Turkey  
1980 - 1985

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Evaluation of solubility and viscosity of refrigerant/lubricant solutions, Iowa State University, Mühendislik Fakültesi, 1992

## Research Areas

Chemical Engineering and Technology, Biotechnology, Basic Operations and Thermodynamics, Thermodynamics, Fluid Mechanics, Heat Transfer, Separation Operations, Mass Transfer, Transport Events

## Academic Titles / Tasks

Professor, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, 2006 - Continues

## Advising Theses

GÜNDÜZ U., Nanoencapsulation Of Pomegranate Seed Oil Into Dextran-Gelatin Fibers By Electrospinning Method, Postgraduate, M.Gizem(Student), 2021

GÜNDÜZ U., Yakıt hücrelerinde metanolden elektrokatalitik hidrojen üretimi, Postgraduate, Ş.DOĞU(Student), 2008

GÜNDÜZ U., Alkali çözeltilerden sodyum borhidrür ekstraksiyonu, Postgraduate, E.OLGUN(Student), 2008

GÜNDÜZ U., EXTRACTION, PURIFICATION OF TYROSINASE AND USING REMOVAL OF PHENOL, Postgraduate, D.ÖZTAN(Student), 2007

GÜNDÜZ U., Polietilen glikol-tuz sistemlerinde viskozite tayini, Postgraduate, N.ZELİHA(Student), 2005

GÜNDÜZ U., Polimer-tuz sistemlerinde protein dağılımı, Postgraduate, E.DİLAN(Student), 2005

GÜNDÜZ U., Sepiyolit kilinin adsorpsiyon özelliğinin incelenmesi, Postgraduate, E.KABAKÇI(Student), 2001

GÜNDÜZ U., Sulu iki-faz sistemlerinde protein dağılımı, Postgraduate, K.KORKMAZ(Student), 1999

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

- I. **Kinematic Viscosities of polyethylene glycol plus dextran plus water solutions**  
Gunduz U., Dogan Ö. M.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.192, pp.1586-1597, 2005 (SCI-Expanded)
- II. **Optimization of bovine serum albumin sorption and recovery by hydrogels**  
Gunduz U., Tolga A.  
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.807, no.1, pp.13-16, 2004 (SCI-Expanded)
- III. **Evaluation of viscosities of aqueous two-phase systems containing protein**  
Gunduz U.  
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.807, no.1, pp.157-161, 2004 (SCI-Expanded)
- IV. **Viscosity prediction of polyethylene glycol-dextran-water solutions used in aqueous two-phase systems**  
Gunduz U.  
JOURNAL OF CHROMATOGRAPHY B, vol.743, pp.181-185, 2000 (SCI-Expanded)
- V. **Partitioning of bovine serum albumin in an aqueous two-phase system: optimization of partition coefficient**  
Gunduz U.  
JOURNAL OF CHROMATOGRAPHY B, vol.743, pp.259-262, 2000 (SCI-Expanded)
- VI. **Bovine serum albumin partitioning in an aqueous two-phase system: Effect of pH and sodium chloride concentration**  
Gunduz U., Korkmaz K.  
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.743, pp.255-258, 2000 (SCI-Expanded)
- VII. **Optimization of bovine serum albumin partition coefficient in aqueous two-phase systems**  
Gunduz U.  
BIOSEPARATION, vol.9, no.5, pp.277-281, 2000 (SCI-Expanded)
- VIII. **Evaluation of viscosities of polymer-water solutions used in aqueous two-phase systems**  
Gunduz U.  
JOURNAL OF CHROMATOGRAPHY B-BIOMEDICAL APPLICATIONS, vol.680, pp.263-266, 1996 (SCI-Expanded)
- IX. **CRYSTALLIZATION KINETICS OF SILICALITE .1. USE OF TETRAPROPYLAMMONIUM BROMIDE AND CHLORIDE AS TEMPLATES**  
CULFAZ A., GUNDUZ U., ORBEY H.  
CRYSTAL RESEARCH AND TECHNOLOGY, vol.28, no.1, pp.29-38, 1993 (SCI-Expanded)

## Articles Published in Other Journals

- I. **One-sided single-cell technique for the determination of henry's constant Henry sabitinin bir-tarafli tek-hcre tekniđi ile belirlenmesi**  
CABBAR H. C., GÜNDÜZ U.  
Turkish Journal of Engineering and Environmental Sciences, vol.25, no.3, pp.163-168, 2001 (Scopus)
- II. **Ethanol production from D-xylose by Pachysolen tannophilus Pachysolen tannophilus kullanarak D-ksilozdan ethanol Üretimi**  
ERGÜN M. A., GÜNDÜZ U.  
Turkish Journal of Engineering and Environmental Sciences, vol.25, no.1, pp.11-17, 2001 (Scopus)
- III. **Evaluation of pressure of refrigerant/lubricant mixtures by lambda-expansion**  
Gunduz U., Eggebrecht J.  
Turkish Journal of Engineering & Environmental Sciences, vol.19, no.3, pp.223-229, 1995 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I. **ELEKTROSPİN YÖNTEMİ İLE NAR ÇEKİRDEĞİ YAĞININ DEKSTRAN-JELATİN LİFLERİNE NANOENKAPSÜLASYONU**  
Abuşoğlu M. G., İNANÇ HORUZ T., BELİBAĞLI K. B., GÜNDÜZ U.  
2nd International Turkish World Engineering and Science Congress, Antalya, Turkey, 7 - 09 November 2019
- II. **Fenolün sulu ortamlardan koagülasyon yöntemiyle uzaklaştırılması**  
KILINÇ M. N., ŞAHİN A., BARIN A. Y., GÜNDÜZ U.  
2nd International Eurasian Conference on Biological and Chemical Sciences, 28 - 29 June 2019
- III. **Aloe vera bitkisinin kurutulma işlemi ve kuruma eğrilerinin belirlenmesi**  
KILINÇ M. N., ŞAHİN A., ÇETİNKAYA H., AKSOY A., ALATAŞ N., HAFIZOĞLU Y., SERT G., GÜNDÜZ U.  
2nd International Eurasian Conference on Biological and Chemical Sciences, 28 - 29 June 2019
- IV. **Bentonitin CMC ve Na<sub>2</sub>CO<sub>3</sub>-MGO Kullanılarak Aktifleştirilmesi ve Özelliklerinin İncelenmesi**  
ŞAHİN A., Seyfeli R. C., Yener Ö., GÜNDÜZ U.  
12. Ulusal Kimya Mühendisliği Kongresi, Turkey, 23 - 26 August 2016
- V. **Organobentonit Sentezi ve Karakterizasyonu**  
Arslan E. G., ŞAHİN A., GÜNDÜZ U.  
12. Ulusal Kimya Mühendisliği Kongresi, Turkey, 23 - 26 August 2016
- VI. **Bentonite Treatment of Bentonite with Na<sub>2</sub>CO<sub>3</sub> and MgO**  
Seyfeli R. C., GÜNDÜZ U., ŞAHİN A.  
European Chemistry Congress, 16 - 18 June 2016
- VII. **PRELIMINARY RESULTS of Na<sub>2</sub>CO<sub>3</sub> TREATMENT of ÇANKIRI BENTONİTE**  
GÜNDÜZ U., ALPAY S., ZARİFE U.  
PPM 2015 International Porous Powder Materials 2015, İzmir, Turkey, 15 - 18 September 2015, pp.211
- VIII. **PRELIMINARY RESULTS OF RARE EARTH ELEMENT EXTRACTION FROM TURKISH ORES**  
GÜNDÜZ U., KUZEY B., BİRKAN F., Ezgi T.  
TURKISH - GERMAN CONFERENCE on ENERJİ TECHNOLOGİES, Ankara, Turkey, 13 - 15 October 2014
- IX. **GLİKOZUN KLİNOPTİLOLOT ÜZERİNDE ADSORPSİYONUNUN İNCELENMESİ**  
DURMAZ M., ND D., GÜNDÜZ U.  
11. ULUSAL KİMYA MÜHENDİSLİĞİ KONGRESİ, Eskişehir, Turkey, 2 - 05 September 2014
- X. **Briquetting of Tunçbilek Lignite**  
GÜNDÜZ U., DOĞAN Ö. M., UYSAL B. Z., SELAHATTİN A., MUSTAFA Ö.  
28th Annual International Pittsburgh Coal Conference, 12 September 2012
- XI. **Pilot Scale Production of Humic Substances from Turkish Leonardite**  
UYSAL B. Z., GÜNDÜZ U., DOĞAN Ö. M., DUYGU Ö., ZEKİ O., MUSTAFA Ö., SELAHATTİN A.  
27th Annual International Pittsburgh Coal Conference, 11 October 2010
- XII. **Drying Kinetics of Çanakkale Çan Lignite**  
GÜNDÜZ U., DOĞAN Ö. M., DUYGU Ö., ZEKİ O., MUSTAFA Ö., SEZGİN Ö., SELAHATTİN A., UYSAL B. Z.  
27th Annual International Pittsburgh Coal Conference, 11 October 2010
- XIII. **Adsorption of Metal Ions on Humic Acid Derived From Turkish Lignite**  
UYSAL B. Z., DUYGU Ö., GÜNDÜZ U., DOĞAN Ö. M., SELAHATTİN A., MUSTAFA Ö., ZEKİ O.  
15. Meeting of the International Humic Substances Society, 27 June 2010
- XIV. **CO<sub>2</sub> absorption by aqueous monoethanolamine (MEA) in a bubble column**  
DOĞAN Ö. M., GÜNDÜZ U., Topçu M., UYSAL B.  
18th International Congress of Chemical and Process Engineering, CHISA 2008, Prague, Czech Republic, 24 - 28 August 2008
- XV. **Spectrophotometric determination of sodium borohydride**  
Olgun E., DOĞAN Ö. M., GÜNDÜZ U., UYSAL B.  
18th International Congress of Chemical and Process Engineering, CHISA 2008, Prague, Czech Republic, 24 - 28 August 2008

## Supported Projects

GÜNDÜZ U., Project Supported by Higher Education Institutions, Tirozinaz enziminin ekstraksiyonu ve liyofilizasyonu, 2009 - 2012

GÜNDÜZ U., Project Supported by Higher Education Institutions, Tirozinaz Enziminin Ekstraksiyonu, Saflaştırılması Ve Kullanımı, 2006 - 2008

GÜNDÜZ U., Project Supported by Higher Education Institutions, Sulu Ortamlardan Fenolün Uzaklaştırılması, 2005 - 2007

GÜNDÜZ U., Project Supported by Higher Education Institutions, Proteinlerin iki-faz sistemlerinde dağılımları, 2002 - 2003

GÜNDÜZ U., Project Supported by Higher Education Institutions, Protein karışımlarının sulu iki faz sistemlerinde dağılımı, 2001 - 2002

GÜNDÜZ U., Project Supported by Higher Education Institutions, Proteinlerin tuzlar ile çöktürülerek saflaştırılması, 2000 - 2001

GÜNDÜZ U., Project Supported by Higher Education Institutions, Sulu iki faz sistemleri ile proteinlerin saflaştırılması, 1997 - 1997

GÜNDÜZ U., Project Supported by Higher Education Institutions, Sulu iki faz sistemlerinin ölçümleri, 1996 - 1996

## Metrics

Publication: 32

Citation (WoS): 112

Citation (Scopus): 125

H-Index (WoS): 6

H-Index (Scopus): 6

## Non Academic Experience

GAZİ ÜNİVERSİTESİ

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