

## Assoc. Prof. Gülçin Yılmaz

### Personal Information

Email: ggumus@itu.edu.tr

### Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 1995 - 2001

Post Graduate, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1992 - 1994

### Foreign Languages

English

### Dissertations

Doctorate, Siyanür tayini için yeni bir spektrofotometrik yöntem, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, 2001

Post Graduate, Eser miktardaki Cu (II) iyonunun zenginleştirilmesi ve tayini, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1994

### Research Areas

Chemistry, Analytical Chemistry, Chromatographic Analysis, Spectroscopical Methods, Natural Sciences

### Academic Titles / Tasks

Associate Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2007 - Continues

Assistant Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2004 - 2007

Research Assistant, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1992 - 2004

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Comparison of Extraction Techniques and Surfactants for the Isolation of Total Polyphenols and Phlorotannins from the Brown Algae *Lobophora variegata***  
Yılmaz G., Gomez Pinchetti J. L. , Cifuentes A., Herrero M., Ibanez E.  
ANALYTICAL LETTERS, 2019 (Journal Indexed in SCI)
- II. **Ion chromatographic method for the determination of orotic acid in urine**  
Destanoğlu O., Zeydanlı D., Cansever M. S. , Yılmaz G.  
ANALYTICAL BIOCHEMISTRY, vol.563, pp.9-14, 2018 (Journal Indexed in SCI)
- III. **Chemical characterization of surface snow in Istanbul (NW Turkey) and their association with atmospheric circulations**  
Baysal A., Baltacı H., Özbek N., Destanoglu O., Ustabasi G. S. , Gumus G.

ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.189, 2017 (Journal Indexed in SCI)

- IV. **Determination of cyanide, thiocyanate, cyanate, hexavalent chromium, and metal cyanide complexes in various mixtures by ion chromatography with conductivity detection**  
Destanoglu O., Yilmaz G.  
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, vol.39, pp.465-474, 2016 (Journal Indexed in SCI)
- V. **Selective Determination of Free Cyanide in Environmental Water Matrices by Ion Chromatography with Suppressed Conductivity Detection**  
Destanoglu O., Yilmaz G., APAK R.  
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, vol.38, pp.1537-1545, 2015 (Journal Indexed in SCI)
- VI. **Matrix interference free determination of perchlorate in urine by ion association ion chromatography mass spectrometry**  
Martinelango P. K. , Yilmaz G., Dasgupta P. K.  
Analytica Chimica Acta, vol.567, pp.79-86, 2006 (Journal Indexed in SCI)
- VII. **Determination of bismuth and zinc in pharmaceuticals by first derivative UV-Visible spectrophotometry**  
Gumus G., Filik H., Demirata B.  
ANALYTICA CHIMICA ACTA, vol.547, pp.138-143, 2005 (Journal Indexed in SCI)
- VIII. **Simultaneous determination of chlorophyll a and chlorophyll b by derivative spectrophotometry**  
Ergun E., DEMIRATA B., GUMUS G., APAK R.  
ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol.379, pp.803-811, 2004 (Journal Indexed in SCI)
- IX. **The effect of the order of reagent addition on the settling rate of aluminium hydroxide in the Al(III)-Na<sub>2</sub>CO<sub>3</sub> system**  
Demirata B., APAK R., GUMUS G., AFSAR H.  
WATER AIR AND SOIL POLLUTION, vol.133, pp.265-282, 2002 (Journal Indexed in SCI)
- X. **Separation and preconcentration of iron(II) and iron(III) from natural water on a melamine-formaldehyde resin**  
Filik H., Ozturk B., Dogutan M., Gumus G., Apak R.  
TALANTA, vol.44, pp.877-884, 1997 (Journal Indexed in SCI)
- XI. **Preconcentration of copper ion in aqueous phase on methacrylate polymers**  
DemirataOzturk B., GUMUS G., ONCULKOC A., CATALGILGIZ H.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.62, pp.613-616, 1996 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Simultaneous Determination of Chloride, Nitrate, Sulfate, Iodide, Phosphate, Thiocyanate, Perchlorate, and Orotate in Milk Samples by Ion Chromatography with Conductivity Detection**  
Destanoğlu O., Yilmaz G.  
Journal of the Turkish Chemical Society, vol.4, pp.415-432, 2017 (Refereed Journals of Other Institutions)
- II. **Determination of Ethylmalonic Acid in Human Urine by Ion Chromatography with Suppressed Conductivity**  
Destanoğlu O., Cansever M. Ş. , Yilmaz G.  
ORBITAL-THE ELECTRONIC JOURNAL OF CHEMISTRY, vol.7, no.2, pp.131-140, 2015 (Refereed Journals of Other Institutions)
- III. **Spectrophotometric Determination of Hydrogen Peroxide**  
Yilmaz G.  
Chimica Acta Turcica, vol.23, pp.131-133, 1995 (Other Refereed National Journals)

## Supported Projects

- Yılmaz G., Project Supported by Higher Education Institutions, İYON KROMATOĞRAFİK YÖNTEMLE İDRARDA SİYANÜR TAYİNİ, 2016 - 2018
- Yılmaz G., Project Supported by Higher Education Institutions, İyon Kromatografi Kondüktivite Dedektörü ile Siyanür ve Hekzavalent Kromun Birlikte Tayini, 2016 - 2018
- Yılmaz G., Project Supported by Higher Education Institutions, İyon Kromatografi Kondüktivite Dedektör ile İdrarda Orotik Asit Tayini için Yeni Bir Yöntem, 2014 - 2018
- Yılmaz G., Project Supported by Higher Education Institutions, The Extent of Formation of Perchlorate From Hypochlorite and Chlorate on Aging/Uv Treatment, 2007 - 2018
- Yılmaz G., Project Supported by Higher Education Institutions, ÇEŞİTLİ YOSUN TÜRLERİNİN ELDE EDİLEN POLİFENOLLERİN EKSTRAKSİYONU VE FONKSİYONEL VE KİMYASAL KARAKTERİZASYONU, 2015 - 2016
- Yılmaz G., Project Supported by Higher Education Institutions, İyon Kromatografi İletkenlik Dedektörü ile Çeşitli Örneklerde Siyanür Tayini, 2012 - 2016
- Yılmaz G., Project Supported by Higher Education Institutions, İyon Kromatografik Yöntemle Sütte Perklorat Tiyosiyanat Nitrat ve İyodürün Birlikte Tayini, 2007 - 2016
- Yılmaz G., Project Supported by Higher Education Institutions, İyon Kromatografik Yöntemle Sütte Anyon Analizleri, 2013 - 2015
- Yılmaz G., Project Supported by Higher Education Institutions, Hiperamonemi-Hiperornitinemi-Homositrüllinüri (HHH) Sendromu ve Orotik Asidüria Hastalıklarının Teşhisi için Yeni Bir İyon Kromatografik Yöntem ile İdrarda Orotik Asit Tayini, 2011 - 2013
- Yılmaz G., Project Supported by Higher Education Institutions, İyon Kromatografi-Kondüktivite Dedektörü ile Çeşitli Örneklerde Perklorat Analizi, 2010 - 2012

## Scientific Refereeing

1. Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, National Scientific Refreed Journal, October 2016
- Journal of Colloid Science and Biotechnology, Other Indexed Journal, July 2015
- Journal of Liquid Chromatography & Related Technologies, SCI Journal, June 2015
- Journal of Agricultural and Food Chemistry, Other Indexed Journal, June 2015
- Environmental Technology, SCI Journal, July 2011
- Marmara Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, August 2008
- Journal of Environment and Waste Management (IJEWM), Other Indexed Journal, June 2008
- The Canadian Journal of Analytical Sciences and Spectroscopy, SCI Journal, November 2007
- The Canadian Journal of Analytical Sciences and Spectroscopy, SCI Journal, August 2007
- Talanta, SCI Journal, June 2005

## Invited Congress and Symposium Activities

- Extracción de florotaninos de Lobophora variegata mediante el empleo de Surfactantes, Attendee, Madrid, Spain, 2016
- İyon Kromatografi İletkenlik Dedektörü İle Çeşitli Örneklerde Siyanür, Siyanat, Tiyosiyanat, Krom(VI) ve Metal-Siyanür Kompleksleri Tayini, Attendee, Malatya, Turkey, 2016
- Ion chromatographic determination of orotic acid in urine samples after elimination of matrix effects, Attendee, Torun, Poland, 2012
- Analysis of perchlorate in various sample by ion chromatography with suppressed conductivity detection, Attendee, Torun, Poland, 2012
- Determination of ethylmalonic acid in urine by ion chromatography with suppressed conductivity detection, Attendee, Torun, Poland, 2012
- Simultaneous determination of cyanide and hexavalent chromium in mixed plating rinse wastewaters by ion chromatography with suppressed conductivity detection, Attendee, Kragujevac, Serbia And Montenegro, 2011
- Determination of cyanide in drinking water, sea water and electroplating solution by ion chromatography with

suppressed conductivity dedection, Attendee, Levkas, Greece, 2010  
Prekonsantrasyon/Matriks Eliminasyon IC-CD ile ppt(ng/L) Seviyelerinde Perklorat Analizi, Attendee, Turkey, 2010  
İyon Kromatografi-Kondüktivite Dedektörü ile Deniz Suyunda Siyanür Analizi İçin Yeni Bir Yöntem, Attendee, Erzurum, Turkey, 2010  
İyon Kromatografi-Kondüktivite Dedektörü ile İçme Suyunda Siyanür Tayini, Attendee, Trabzon, Turkey, 2009  
İyon Kromatografik Yöntemle Sütte Tiyosiyanat ve İyodürün Birlikte Tayini, Attendee, Cyprus (Kkct), 2008  
Determination of Thiocyanate and Iodine in Milk by Ion Chromatography with Suppressed Conductivity Detection, Attendee, Turkey, 2008  
Simultaneous Determination of Cyanide, Nitrate and Phosphate by Ion Chromatography with Suppressed Conductivity Detection, Attendee, Denizli, Turkey, 2008  
İyon Kromatografi-Kütle Spektrofotometresi ile Hipoklorit ve Klorattan Perklorat Oluşumunun İncelenmesi, Attendee, Kırıkkale, Turkey, 2007  
The Extent of Formation of Perchlorate from Chlorate and Hypochlorite on Aging/UV Treatment and the Underlying Mechanism, Attendee, Antwerp, Belgium, 2007  
Matrix interference free determination of perchlorate in urine by ion association – ion chromatography – mass spectrometry, Attendee, Antalya, Turkey, 2006  
İyon Kromatografi-Kütle Spektrofotometresi ile İdrarda Perklorat Tayini, Attendee, İzmir, Turkey, 2006  
Determination of bismuth and zinc in pharmaceuticals by derivative spectrophotometry, Attendee, Aydın, Turkey, 2004  
Simultaneous Determination of Bismuth and Zinc by First-Order Derivative Spectrophotometry Using Dithizone as reagent, Attendee, Dortmund, Germany, 2002  
Simultaneous Spectrophotometric Determination of Cyanide and Thiocyanate after Separation on a Melamine-formaldehyde Resin, Attendee, Dortmund, Germany, 2002  
Indirect Spectrophotometric Determination of Microamounts of Cyanide, Attendee, Basel, Switzerland, 1998  
A Computer Method for the Spectrophotometric Analysis of Multicomponent Systems and its application to the derivatives of Salicylic Acid, Attendee, Van, Turkey, 1997  
A Computer Method for the Spectrophotometric Analysis of Multicomponent Systems and its application to the derivatives of Salicylic Acid, Attendee, Geneve, Switzerland, 1997  
Separation, preconcentration and determination of Fe(II) and Fe(III) on melamin- formaldehyde resin, Attendee, Bologna, Italy, 1996  
Determination of Arsenic in Water with Thioglicolic Acid, Attendee, Bologna, Italy, 1996  
Eser Miktarındaki Cu(II) İyonunun Zenginleştirilmesi ve Tayini, Attendee, Bursa, Turkey, 1994  
Spektrofotometrik Arsenik Tayini İçin Yeni bir Yöntem, Attendee, Bursa, Turkey, 1994  
Alüminyum Tuzlarıyla Koagülasyonu Etkileyen Faktörlerin İncelenmesi, Attendee, Trabzon, Turkey, 1993

## Citations

Total Citations (WOS):119

h-index (WOS):5