

## Assoc. Prof. Türkan BUDAK

### Personal Information

**Office Phone:** [+90 212 383 4131](tel:+902123834131)

**Fax Phone:** [+90 212 383 4132](tel:+902123834132)

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

**Web:** <https://avesis.yildiz.edu.tr/tborklu>

**Address:** [turkanborklu@yahoo.com](mailto:turkanborklu@yahoo.com) [tborklu@yildiz.edu.tr](mailto:tborklu@yildiz.edu.tr)

### International Researcher IDs

ORCID: 0000-0002-1294-2682

Yoksis Researcher ID: 184001

### Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Kimya, Turkey 2001 - 2008

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Peynir mayası aktivitesinin tayini için yeni bir yöntem geliştirilmesi, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2009

Postgraduate, Bakır kaplama banyolarının iyileştirilmesi, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Kimya, 2002

### Research Areas

Chemistry, Analytical Chemistry, Electromagnetic Methods, Volumetry, Biochemistry, Enzyme Kinetics, Physical Chemistry, Electrochemistry, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2024 - Continues  
Research Assistant PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2000 - Continues

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

1. Adsorption of Basic Yellow 28 and Basic Blue 3 Dyes from Aqueous Solution Using Silybum Marianum Stem as a Low-Cost Adsorbent

Börklü Budak T.

Molecules, vol.28, no.18, 2023 (SCI-Expanded)

- II. **Accurate and simple determination of oxcarbazepine in human plasma and urine samples using switchable-hydrophilicity solvent in GC-MS**  
Erarpat S., Bodur S., Ayyıldız M. F., Günkara Ö. T., Erulaş F., Chormey D. S., Turak F., Budak T., Bakırdere S.  
BIOMEDICAL CHROMATOGRAPHY, vol.34, no.10, 2020 (SCI-Expanded)
- III. **Combination of vortex assisted binary solvent microextraction and QuEChERS for the determination of prothiofos, oxadiargyl, and gamma-cyhalothrin in water and pineapple samples by gas chromatography mass spectrometry**  
Budak T., Ayyıldız M. F., Chormey D. S., Bakırdere S.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.192, no.5, 2020 (SCI-Expanded)
- IV. **Trace Level Determination of Cadmium in Different Water Matrices and Rose Hip Tea Sample by Dispersive Liquid-liquid Microextraction Slotted Quartz Tube Flame Atomic Absorption Spectrometry After Complexation With a New Imidazole-based Ligand**  
Yazıcı E., Firat M., Chormey D. S., BUDAK T., ŞAHİN Ç., TURAK F., BAKIRDERE S.  
ATOMIC SPECTROSCOPY, vol.40, no.1, pp.24-30, 2019 (SCI-Expanded)
- V. **Development of an Accurate and Sensitive Analytical Method for the Determination of Cadmium at Trace Levels Using Dispersive Liquid-Liquid Microextraction Based on the Solidification of Floating Organic Drops Combined with Slotted Quartz Tube Flame Atomic Absorption Spectrometry**  
Aydın I., Chormey S. D., Budak T., Firat M., Turak F., Bakırdere S.  
JOURNAL OF AOAC INTERNATIONAL, vol.101, pp.843-847, 2018 (SCI-Expanded)
- VI. **Determination of cadmium at ultratrace levels by dispersive liquid-liquid microextraction and batch type hydride generation atomic absorption spectrometry**  
Kasa N. A., Chormey D. S., Büyükpınar Ç., Turak F., Budak T., Bakırdere S.  
MICROCHEMICAL JOURNAL, vol.133, pp.144-148, 2017 (SCI-Expanded)
- VII. **Comparison Electrochemical Treatment of Synthetic Wastewater Containing Paracetamol and Pseudoephedrine**  
Budak T.  
Asian Journal Of Chemistry, vol.27, no.4, pp.1347-1350, 2015 (SCI-Expanded)
- VIII. **Removal of Heavy Metals from Wastewater Using Synthetic Ion Exchange Resin**  
Budak T.  
ASIAN JOURNAL OF CHEMISTRY, vol.25, pp.4207-4210, 2013 (SCI-Expanded)
- IX. **MODELLING OF ELECTRODEPOSITION BATH USING THE FLOW ANALYSIS TECHNIQUE**  
BUDAK T., KOYUNCU İ., Akcin G., Afsar H.  
REVIEWS IN ANALYTICAL CHEMISTRY, vol.28, no.1, pp.1-9, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Investigation of Adsorption Studies of Different Arsenic Species Using the Diffusive Gradients in Thin Film (DGT) Technique**  
Borklu budak T.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.8, no.3, pp.1794-1801, 2020 (Peer-Reviewed Journal)
- II. **Rennin Aktivitesinin Tayini İçin Yeni Bir Yöntem Geliştirilmesi**  
Budak T., Afşar H.  
Sigma, vol.29, no.1, pp.35-42, 2011 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Farklı indikatör karışımlarının pH dönüm aralıklarının incelenmesi**

Budak T.

4th International Academic Studies Conference, 28-30 September 2020, Elazığ, Turkey, 28 September - 30 December 2020, vol.1, pp.326-329

- II. **Determination of Oxcarbazepine in Urine and Blood Samples by Gas Chromatography – Mass Spectrometry after Switchable Solvent Liquid Phase Microextraction Method**  
Erarpat S., Bodur S., Ayyıldız M. F., Günkara Ö. T., Erulaş F. A., Chormey D. S., Turak F., Budak T., Bakırdere S.  
2nd International Congress on Analytical and Bioanalytical Chemistry (2nd ICABC 2020), Antalya, Turkey, 11 - 14 March 2020, pp.174
- III. **Investigation of mud volcano composition in Turkmenistan**  
Budak T.  
1st International Eurasian Conference on Science, Engineering and Technology, Ankara, Turkey, 22 - 23 November 2018, pp.153
- IV. **Determination of Cadmium in Wastewater at Ultratrace Levels by Dispersive Liquid-Liquid Microextraction and Batch Type Hydride Generation Atomic Absorption Spectrometry**  
Kasa N. A., Chormey D. S., Büyükpınar Ç., Turak F., Budak T., Bakırdere S.  
7th International IUPAC Conference on Green Chemistry, Moscow, Russia, 2 - 05 October 2017
- V. **Determination of cadmium in drinking and wastewater by dispersive liquid-liquid microextraction slotted quartz tube flame atomic absorption spectrometry system after complexation with a new imidazole based ligand**  
Yazıcı E., Bakırdere S., Fırat M., Chormey D. S., Turak F., Şahin Ç., Budak T.  
5th International Conference on Sustainable Solid Waste Management, Athens, Greece, 21 - 24 June 2017
- VI. **The effect of different anions using electrocoagulation technique in waste water treatment**  
Budak T., Koyuncu I.  
2th All in One Conference, International Conference on New Trends in Chemistry, Dubai, United Arab Emirates, 23 March 2015, pp.90
- VII. **The Effect of Different Anions Using Electrocoagulation Technique in Waste Water Treatment**  
Budak T., Koyuncu İ.  
INTERNATIONAL SYMPOSIUM ON MOLECULAR CHEMISTRY , İstanbul, Turkey, 18 - 19 December 2014, pp.28
- VIII. **paracetamol içeren ilaç fabrikası atık sularının elektrokimyasal yöntem kullanılarak arıtılması**  
Budak T., Çobanoğlu E.  
1.İlaç kimyası üretimi, teknolojisi, standardizasyonu kongresi, Antalya, Turkey, 29 - 31 March 2013, pp.62
- IX. **Modifiye Edilmiş Doğal Polimerlerin Ağır Metal Adsorpsiyonlarının İncelenmesi**  
Budak T., Doğruyol S.  
III. Fiziksel Kimya Günleri, Balıkesir, Turkey, 12 - 15 July 2012, pp.240
- X. **Elektrokimyasal Yöntemlerle Atık Su Arıtma**  
Budak T., Erdoğan D.  
III.Fiziksel Kimya Günleri, Balıkesir, Turkey, 12 - 15 July 2012, pp.37
- XI. **Bazı Toprak Alkali Metal Bileşiklerinin Emisyon Özelliklerinin Doping Maddeler Kullanılarak Geliştirilmesi**  
Budak T.  
II.AR-GE Proje Pazarı Enerji ve Çevre Teknolojileri, İstanbul, Turkey, 29 - 30 May 2012, pp.2
- XII. **Bazı Atık Su Arıtma Parametrelerinin Elektrokimyasal Yöntem Kullanılarak İncelenmesi**  
Budak T.  
II.AR-GE Proje Pazarı Enerji ve Çevre Teknolojileri, İstanbul, Turkey, 29 - 30 May 2012, pp.1
- XIII. **Asit Karışımları Analizinin Tayin Sınırının Belirlenmesi**  
Budak T.  
25.Uluslararası Katılımlı Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011, pp.148
- XIV. **Atık Su Arıtma Parametrelerinden Bazılarının Elektrokimyasal Yöntemle İncelenmesi**  
Budak T.  
25.Uluslararası Katılımlı Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011, pp.164
- XV. **Asit karışımlarının titrasyonla analizi**

- Budak T., Budak H., Afşar H.  
XX. Ulusal Kimya Kongresi, Kayseri, Turkey, 4 - 08 September 2006, pp.9
- XVI. **TRACE ELEMENT SPECIATION IN FRESH WATER USING IRON OXIDE GEL TECHNIQUE**  
Budak T., Koyuncu İ., Zhang H., Akçin G., Güçer Ş.  
3rd Black Sea Basin Conference on Analytical Chemistry, Constanta, Romania, 12 - 14 September 2005, pp.33
- XVII. **Recovery of heavy metals from wastewater**  
Budak T., Çetin G., Turhan K., Yenigül E., Akçin G.  
3rd Black Sea Basin Conference on Analytical Chemistry, Constanta, Romania, 12 - 14 September 2005, pp.100
- XVIII. **Difüzyon Tekniği Kullanılarak Sulu Ortamda AsIII ve AsIV Türlerinin Tayini**  
Akçin G., Koyuncu İ., Budak T., Zhang H., Güçer Ş.  
IX. Ulusal Spektroskopi Kongresi, Ankara, Turkey, 9 - 11 June 2005, pp.38
- XIX. **Determination of natural dye extracted from rhus coriaria (sumac)**  
Kıran I., Alp O., Budak T., Akçin G.  
fifth congress of pure and applied chemistry for the students of macedonia, Skopje, Macedonia, 16 - 18 October 2003, pp.64
- XX. **Improvement of constant ion concentration in on-line process and FIA**  
Akçin G., Koyuncu İ., Budak T., Afşar H.  
the sixth international symposium on new trends in chemistry, Al-Jizah, Egypt, 4 - 08 January 2003, pp.3
- XXI. **Akış Enjeksiyon Sistemi ile Kaplama Banyolarında Metal İyon Konsantrasyonunun Belirlenmesi**  
Koyuncu İ., Budak T., Akçin G., Afşar H.  
VIII.Ulusal Spektroskopi Kongresi, Bursa, Turkey, 30 October - 01 November 2002, pp.17
- XXII. **Akışa Enjeksiyonlu ve On-Line Sistemi ile Kaplama Kalitesinin İyileştirilmesi**  
Budak T., Koyuncu İ., Akçin G., Afşar H.  
XVI. Ulusal Kimya Kongresi, Konya, Turkey, 10 - 13 September 2002, pp.123
- XXIII. **Profiling electroplating bath**  
Koyuncu İ., Budak T., Akçin G., Afşar H.  
xvii congress of chemists and technologists of macedonia, Skopje, Macedonia, 18 - 20 April 2002, pp.113
- XXIV. **RECOVERY OF METALS FROM ELECTROPLATING INDUSTRY WASTE RINSE WATER BY İON EXCHANGE RESİNS**  
Budak T., Kıran I., Akçin G.  
1st Black Sea Basin Conference on Analytical Chemistry, Odesa, Ukraine, 11 - 15 September 2001, pp.77

## Supported Projects

- BUDAK T., MORALI B., YILMAZ D. Ş., YOZLU M., YORGANCI A. K., DOĞRUYOL S., Project Supported by Higher Education Institutions, Asetik asit ve fermente asetik asit içeren farklı numunelerde safsızlık olarak bulunabilecek kuvvetli asit miktarının potansiyometrik titrasyon yöntemi ile tayini, 2021 - 2024
- DOĞRUYOL S., BUDAK T., Pehlivanoğlu S., DOĞRUYOL Z., ÇİM A. G., Project Supported by Higher Education Institutions, UV/Görünür Bölgede Etkin Suda Çözünür Yeni Fotobaşlatıcıların Sentezi ve Fotopolimerizasyon Reaksiyonlarındaki Etkinliklerinin İncelenmesi, 2021 - 2023
- BUDAK T., CHORMEY D. S., ERULAŞ F. A., BAKIRDERE S., TURAK F., Project Supported by Higher Education Institutions, Yeni Nesil AntiEpileptik İlaç Etken Maddelerinin Farklı Matrikslerde Ön deriştirme Sonrası GCMS Sisteminde Eser Seviyelerde Eşzamanlı Tayinleri, 2019 - 2020
- BUDAK T., Project Supported by Higher Education Institutions, Bazı Atık Su Arıtma Parametrelerinin Elektrokimyasal Yöntem Kullanılarak İncelenmesi, 2011 - 2014
- Budak T., Akçin G., Project Supported by Higher Education Institutions, Metal Sanayi Kaplama Banyoları Çalkalama Sularında Bulunan Metallerin Parametrik Pumping Yöntemi İle Geri Kazanılması, 2004 - 2005
- Budak T., Akçin G., Koyuncu İ., Güçer Ş., Zhang H., Davison B., Other International Funding Programs, Development of a Simple Speciation Tool for Arsenic in Fresh Water, 2000 - 2003

## **Scientific Refereeing**

Journal of Hazardous Materials / Visible Light Water Splitting and Enhanced UV Photocatalysis from Nitrogen Doped TiO<sub>2</sub> Thin Films, SCI Journal, May 2012

Journal of Hazardous Materials / One-pot solvothermal synthesis of three-dimensional (3D) BiOI/BiOCl composites with enhanced visible-light photocatalytic activities for the degradation of bisphenol-A, SCI Journal, April 2012

## **Metrics**

Publication: 36

Citation (WoS): 59

Citation (Scopus): 93

H-Index (WoS): 4

H-Index (Scopus): 5

## **Non Academic Experience**

Kızılay Bayrampaşa Tıp Merkezi

Boyner Büyük Mağazacılık A.Ş.

Migros Ticaret Anonim Şirketi