

## Assoc. Prof. Fatma TURAK

### Personal Information

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### International Researcher IDs

ORCID: 0000-0002-4833-411X

Publons / Web Of Science ResearcherID: A-6100-2018

ScopusID: 6506600687

Yoksis Researcher ID: 174735

### Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Kimya/ Analitik Kimya , Turkey  
1995 - 2001

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Kimya/ Analitik Kimya ,  
Turkey 1992 - 1994

Undergraduate, Yıldız Technical University, Faculty Of Arts & Science, Kimya, Turkey 1986 - 1991

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Atıksularda yağların giderilmesi , Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences,  
Kimya/ Analitik Kimya , 2001

Postgraduate, Sodyum sakarin ve sodyum siklamat karışımının yüksek dereceli türev spektrokopisi ile tayini, Yıldız  
Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Kimya/ Analitik Kimya , 1994

### Research Areas

Chemistry, Analytical Chemistry, Atomic and Molecular Spectroscopy, Separation Methods, Food Analysis,  
Chromatographic Analysis, Micro and Semimicro Methods, Spectroscopical Methods, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Yıldız Technical University, Faculty Of Arts & Science, Kimya, 2014 - Continues

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

- I. **Microwave-assisted synthesis of  $\gamma$ -aloooh nanoflowers as an adsorbent for cadmium removal from domestic wastewater**  
Metin B., DALGIÇ BOZYIĞİT G., Zaman B. T., Er E. Ö., TURAK F., BAKIRDERE S.  
Environmental monitoring and assessment, vol.196, no.10, pp.996, 2024 (SCI-Expanded)
- II. **Determination of trace amounts of metobromuron herbicide residues in fruits by QuEChERS and DLLME methods**  
Ofllu S., Zaman B. T., Kılınç Y., Bakırdere S., Turak F.  
Journal of Food Composition and Analysis, vol.133, 2024 (SCI-Expanded)
- III. **Microwave assisted effective synthesis of CdS nanoparticles to determine the copper ions in artichoke leaves extract samples by flame atomic absorption spectrometry**  
Saylan M., Metin B., Akbiyik H., Turak F., Çetin G., Bakırdere S.  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.115, 2023 (SCI-Expanded)
- IV. **Plastic sieve equipped two-syringe assisted magnetic colloidal gel for dispersive solid-phase extraction of manganese in tea samples**  
Aydin E. S., Zaman B. T., Serbest H., Kapukiran F., Turak F., Bakırdere S.  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.114, 2022 (SCI-Expanded)
- V. **Simultaneous Determination of Harmful Aromatic Amine Products of Azo Dyes by Gas Chromatography-Mass Spectrometry**  
Chormey D. S., Zaman B. T., Maltepe E., Büyükpınar Ç., Bulgurcuoğlu A. E., Turak F., Erulaş F. A., Bakırdere S.  
JOURNAL OF ANALYTICAL CHEMISTRY, vol.75, no.10, pp.1330-1334, 2020 (SCI-Expanded)
- VI. **Accurate and simple determination of oxcabazepine 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)
- VII. **Determination of lead in milk samples using vortex assisted deep eutectic solvent based liquid phase microextraction-slotted quartz tube-flame atomic absorption spectrometry system**  
Borahan T., Unutkan T., Turan N. B., Turak F., Bakırdere S.  
FOOD CHEMISTRY, vol.299, 2019 (SCI-Expanded)
- VIII. **Experimental design of switchable solvent-based liquid phase microextraction for the accurate determination of etrimfos from water and food samples at trace levels by GC-MS**  
Firat M., Chormey D. S., Bakırdere S., Turak F.  
Environmental Monitoring and Assessment, vol.191, 2019 (SCI-Expanded)
- IX. **Simultaneous Determination of Chromium Species in Water and Plant Samples at Trace Levels by Ion Chromatography-Inductively Coupled Plasma-Mass Spectrometry**  
Sel S., Erulaş A. F., Turak F., Bakırdere S.  
ANALYTICAL LETTERS, vol.52, no.5, pp.761-771, 2019 (SCI-Expanded)
- X. **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**  
Yazici E., Firat M., Chormey D. S., Budak T. B., Sahin Ç., TURAK F., BAKIRDERE S.  
Atomic Spectroscopy, vol.40, no.1, pp.24-30, 2019 (SCI-Expanded)
- XI. **Accurate determination of pesticides, hormones and endocrine disruptor compounds in complex environmental samples using matrix dilution and matrix matching with dispersive liquid-liquid microextraction**  
Chormey D. S., Firat M., Büyükpınar Ç., Erulaş A. F., Komesli O. T., Turak F., Bakırdere S.  
PURE AND APPLIED CHEMISTRY, vol.90, pp.1703-1711, 2018 (SCI-Expanded)
- XII. **Sensitive determination of cadmium in lake water, municipal wastewater and onion samples by slotted quartz tube-flame atomic absorption spectrometry after preconcentration with microextraction strategy**  
KAFA E. B., Firat M., Chormey D. S., TURAK F., BAKIRDERE S.  
MEASUREMENT, vol.125, pp.219-223, 2018 (SCI-Expanded)

- XIII. **Vortex-assisted switchable liquid-liquid microextraction for the preconcentration of cadmium in environmental samples prior to its determination with flame atomic absorption spectrometry**  
Firat M., Bodur S., Tışlı B., Özlü C., Chormey D. S., TURAK F., BAKIRDERE S.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.190, no.7, 2018 (SCI-Expanded)
- XIV. **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)
- XV. **Development and Validation of a Sensitive Method for Trace Nickel Determination by Slotted Quartz Tube Flame Atomic Absorption Spectrometry After Dispersive Liquid-Liquid Microextraction**  
YOLCU S. M., Firat M., Chormey D. S., Buyukpinar C., TURAK F., BAKIRDERE S.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.100, no.5, pp.715-719, 2018 (SCI-Expanded)
- XVI. **A novel analytical method for sensitive determination of lead: Hydrogen assisted T-shape slotted quartz tube-atom trap-flame atomic absorption spectrometry**  
Uslu H., Büyükpınar Ç., Unutkan T., Serbest H., San N., Turak F., Bakırdere S.  
MICROCHEMICAL JOURNAL, vol.137, pp.155-159, 2018 (SCI-Expanded)
- XVII. **Determination of Cadmium in Tap, Sea and Waste Water Samples by Vortex-Assisted Dispersive Liquid-Liquid-Solidified Floating Organic Drop Microextraction and Slotted Quartz Tube FAAS After Complexation with a Imidazole Based Ligand**  
Fındıkoğlu M. S., Firat M., Chormey D. S., TURAK F., Şahin Ç., BAKIRDERE S.  
Water, Air, and Soil Pollution, vol.229, no.2, 2018 (SCI-Expanded)
- XVIII. **Development of a sensitive closed batch vessel hydride generation atomic absorption spectrometry method for the determination of cadmium in aqueous samples**  
Buyukpinar C., BEKAR B., Maltepe E., Chormey D. S., TURAK F., San N., BAKIRDERE S.  
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.46, no.6, pp.645-655, 2018 (SCI-Expanded)
- XIX. **A novel liquid-liquid extraction for the determination of naphthalene by GC-MS with deuterated anthracene as internal standard**  
ERARPAT S., Özzeybek G., Chormey D. S., ERULAŞ F., TURAK F., BAKIRDERE S.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.189, no.10, 2017 (SCI-Expanded)
- XX. **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)
- XXI. **Simultaneous determination of selected hormones, endocrine disruptor compounds, and pesticides in water medium at trace levels by GC-MS after dispersive liquid-liquid microextraction**  
Chormey D. S., Buyukpinar C., Turak F., Komesli O. T., Bakırdere S.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.189, 2017 (SCI-Expanded)
- XXII. **Arsenic speciation in water and biota samples at trace levels by ion chromatography inductively coupled plasma-mass spectrometry**  
Firat M., BAKIRDERE S., Sel S., Chormey D. S., Elkiran O., Erulas F., TURAK F.  
International Journal of Environmental Analytical Chemistry, vol.97, no.7, pp.684-693, 2017 (SCI-Expanded)
- XXIII. **Sensitive determination of copper in water samples using dispersive liquid-liquid microextraction-slotted quartz tube-flame atomic absorption spectrometry**  
ÖZZEYBEK G., ERARPAT S., CHORMEY D. S., FIRAT M., Büyükpınar Ç., TURAK F., BAKIRDERE S.  
Microchemical Journal, vol.132, pp.406-410, 2017 (SCI-Expanded)
- XXIV. **Simultaneous determination of ascorbic acid and caffeine in commercial soft drinks using reversed-phase ultraperformance liquid chromatography**  
TURAK F., Güzel R., DİNÇ E.  
Journal of Food and Drug Analysis, vol.25, no.2, pp.285-292, 2017 (SCI-Expanded)

- XXV. **Determination of trace amount of cadmium using dispersive liquid-liquid microextraction-slotted quartz tube-flame atomic absorption spectrometry**  
Firat M., Bakirdere S., Findıkođlu M. S., Kafa E. B., Yazıcı E., Yolcu M., Büyükpınar Ç., Chormey D. S., Sel S., Turak F. *Spectrochimica Acta - Part B Atomic Spectroscopy*, vol.129, pp.37-41, 2017 (SCI-Expanded)
- XXVI. **A new UPLC approach for the simultaneous quantitative estimation of four compounds in a cough syrup formulation**  
TURAK F., Güzel R., DİNÇ E.  
*Journal of Chromatographic Science*, vol.54, no.1, pp.28-35, 2016 (SCI-Expanded)
- XXVII. **Four Derivative Spectrophotometric Methods for the Simultaneous Determination of Carmoisine and Ponceau 4R in Drinks and Comparison with High Performance Liquid Chromatography**  
TURAK F., Dinc M., Dulger Ö., Ozgur M.  
*INTERNATIONAL JOURNAL OF ANALYTICAL CHEMISTRY*, 2014 (SCI-Expanded)
- XXVIII. **Simultaneous Determination of Allura Red and Ponceau 4R in Drinks with the Use of Four Derivative Spectrophotometric Methods and Comparison with High-Performance Liquid Chromatography**  
TURAK F., Ozgur M. U.  
*JOURNAL OF AOAC INTERNATIONAL*, vol.96, no.6, pp.1377-1386, 2013 (SCI-Expanded)
- XXIX. **Validated Spectrophotometric Methods for Simultaneous Determination of Food Colorants and Sweeteners**  
TURAK F., OZGUR A. U.  
*JOURNAL OF CHEMISTRY*, 2013 (SCI-Expanded)
- XXX. **Simultaneous determination of Dazomet and Propanil by Partial Least Squares (PLS-2) and zero-crossing derivative spectrophotometry methods**  
TURAK F., Üstün Özgür M., ERÇAĞ A., BOZDOĞAN A. E.  
*Reviews in Analytical Chemistry*, vol.25, no.2, pp.117-128, 2006 (SCI-Expanded)

## Articles Published in Other Journals

- I. **DETERMINATION OF THE STABILITY CONSTANTS OF THE PROTON AND Co(II), Ni(II), Cu(II), Zn(II), Fe(III) COMPLEXES OF 3,5-DIMETHYL TETRAHYDRO-1,3,5-THIADIAZINE-2-THIONE BY THE POTENTIOMETRIC METHOD**  
Turak F.  
*SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES*, vol.25, no.4, pp.359-366, 2007 (Scopus)

## Books & Book Chapters

- I. **Sorption of Zn(II) and Pb(II) Ions by a New Resin Synthesized from Sumac Tannin and Gelatin**  
Turhan K., Turak F., Özgür M.  
in: *Innovations in Chemical Biology*, Bilge ŞENER, Editor, Springer-Verlag, Dordrecht, pp.253-260, 2009
- II. **Sorption of Pb(II) and Zn(II) Ions from Aqueous Solution by Tannin Resins**  
Turak F., Turhan K., Özgür M.  
in: *Innovations in Chemical Biology*, Bilge ŞENER, Editor, Springer-Verlag, Dordrecht, pp.277-283, 2009

## Supported Projects

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  
TURAK F., BAKIRDERE S., CHORMEY D. S., Fırat M., Project Supported by Higher Education Institutions, Çevre

Örneklerinde Bulunan Etrimfos Pestisitinin Ekstraksiyon Önderiştirilmesi Sonrası İç Standard Varlığında Gaz Kromatografisi Kütle Spektrometresi Sistemi ile Düşük Seviyelerde Tayini, 2017 - 2019  
BAKIRDERE S., TURAK F., CHORMEY D. S., Project Supported by Higher Education Institutions, Bazı endokrin bozucu bileşiklerin ve pestisitlerin ön deriştirme sonrası GC-MS ile düşük seviyelerde eş zamanlı tayinleri, 2016 - 2018  
TURAK F., ÖZGÜR M., Other International Funding Programs, Meyve ve sebzelerde toplam antosiyanin miktarının spektrofotometrik ve hplc yöntemler ile tayini, 2012 - 2014  
TURAK F., Other International Funding Programs, Boyarmadde içeren tekstil endüstrisi atıksularının doğal adsorbanlar ile ekonomik arıtım yöntemleri 2011-01-02-KAP10, 2011 - 2013  
TURAK F., Project Supported by Higher Education Institutions, Gıda ve İlaçlara Katılan Yapay Tatlandırıcıların Spektrofotometri ile Tayininde Türev ve Çok Değişkenli Kalibrasyon Yöntemlerinin Uygulanması, 2011 - 2013  
Özgür M., Turak F., Gümrükçü Köse G., Erçağ A., Uğur A. L., Project Supported by Higher Education Institutions, Doğal Materyallerle Bazı Ağır Metal Kirliliklerinin Giderilmesi, 2004 - 2006  
Özgür M., Turak F., Gümrükçü Köse G., Erçağ A., Koç E., Project Supported by Higher Education Institutions, Yeni Sübstitüe İmin Bileşiklerinin Ni(II) ve Cu(II) Komplekslerinin Sentezi ve Karakterizasyonu, 1999 - 2001

## Metrics

Publication: 81  
Citation (WoS): 261  
Citation (Scopus): 541  
H-Index (WoS): 9  
H-Index (Scopus): 13