

## Assoc. Prof. Fatma TURAK

### Personal Information

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**Address:** Yıldız Teknik Üniversitesi Fen-Edebiyat Fakültesi Kimya Bölümü Davutpaşa Kampüsü

### 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. **Trace copper determination in mate tea and tap water using FAAS and spray-assisted liquid phase microextraction**  
Karakebab K, Serbest H, TURAK F, BAKIRDERE S.  
Journal of Food Composition and Analysis, vol.140, 2025 (SCI-Expanded)
- II. **Microwave-assisted synthesis of  $\gamma$ -aloooh nanoflowers as an adsorbent for cadmium removal from domestic wastewater**  
Metin B, DALGIÇ BOZYİĞİT G, Zaman B. T., Er E. Ö., TURAK F, BAKIRDERE S.  
Environmental monitoring and assessment, vol.196, no.10, pp.996, 2024 (SCI-Expanded)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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., Fırat M., Chormey D. S., TURAK F., BAKIRDERE S.  
MEASUREMENT, vol.125, pp.219-223, 2018 (SCI-Expanded)

- XIV. **Vortex-assisted switchable liquid-liquid microextraction for the preconcentration of cadmium in environmental samples prior to its determination with flame atomic absorption spectrometry**  
Fırat 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)
- 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., Fırat 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. **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., Fırat M., Turak F., Bakırdere S.  
JOURNAL OF AOAC INTERNATIONAL, vol.101, pp.843-847, 2018 (SCI-Expanded)
- XVII. **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)
- XVIII. **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., Fırat M., Chormey D. S., TURAK F., Şahin Ç., BAKIRDERE S.  
Water, Air, and Soil Pollution, vol.229, no.2, 2018 (SCI-Expanded)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **Arsenic speciation in water and biota samples at trace levels by ion chromatography inductively coupled plasma-mass spectrometry**  
Fırat 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)
- XXIV. **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., FıRAT M., Büyükpınar Ç., TURAK F., BAKIRDERE S.  
Microchemical Journal, vol.132, pp.406-410, 2017 (SCI-Expanded)

- XXV. **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)
- XXVI. **Determination of trace amount of cadmium using dispersive liquid-liquid microextraction-slotted quartz tube-flame atomic absorption spectrometry**  
Firat M., Bakirdere S., Fındıkoğlu 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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **Validated Spectrophotometric Methods for Simultaneous Determination of Food Colorants and Sweeteners**  
TURAK F., OZGUR A. U.  
JOURNAL OF CHEMISTRY, 2013 (SCI-Expanded)
- XXXI. **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

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

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: 82

Citation (WoS): 261

Citation (Scopus): 544

H-Index (WoS): 9

H-Index (Scopus): 13