

## Asst. Prof. BURCU SEZGİN

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-0279-4839

Publons / Web Of Science ResearcherID: ADM-4481-2022

ScopusID: 57221462736

Yoksis Researcher ID: 166677

### Education Information

Doctorate, Anadolu University, Institute Of Health Sciences, Analitik Kimya (Dr), Turkey 2009 - 2016

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (YI) (Tezli), Turkey 2004 - 2006

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Öğretmenliği (YI) (Tezsiz), Turkey 2004 - 2005

Undergraduate, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Kimya Mühendisliği Bölümü, Turkey 1998 - 2003

### Foreign Languages

English, B1 Intermediate

### Dissertations

Doctorate, İşlenmiş gıdaların lezzetini değiştirmek için kullanılan bazı katkı maddelerinin eşzamanlı analizi, Anadolu University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), 2016

Postgraduate, Bakır ve nikel iyonlarının hibrit iyon değişimi-elektrodiyaliz süreci ile giderilmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (YI) (Tezli), 2006

### Research Areas

Pharmacology and Therapeutics, Analytical Chemistry, Chemistry, Analytical Chemistry, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Eskisehir Osmangazi University, ESKİŞEHİR MESLEK YÜKSEKOKULU, ÇEVRE KORUMA TEKNOLOJİLERİ BÖLÜMÜ, 2023 - Continues

Lecturer PhD, Eskisehir Osmangazi University, ESKİŞEHİR MESLEK YÜKSEKOKULU, ÇEVRE KORUMA TEKNOLOJİLERİ

BÖLÜMÜ, 2011 - Continues

## Academic and Administrative Experience

Assistant Director of Vocational School, Eskisehir Osmangazi University, ESKİŞEHİR MESLEK YÜKSEKOKULU, 2022 - Continues

Program Koordinatörü, Eskisehir Osmangazi University, ESKİŞEHİR MESLEK YÜKSEKOKULU, ÇEVRE KORUMA TEKNOLOJİLERİ BÖLÜMÜ, 2012 - 2015

## Courses

ALETLİ ANALİZ TEKNİKLERİ, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

INTERNSHIP, Associate Degree, 2023 - 2024, 2022 - 2023

PROJE, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017

ÇEVRE LABORATUVARI I, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

GÜRÜLTÜ KİRLİLİĞİ VE KONTROLÜ, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2015 - 2016

LABORATUVAR VE ÖLÇÜM TEKNİKLERİ, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

YENİLENEBİLİR ENERJİ KAYNAKLARI, Associate Degree, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Associate Degree, 2023 - 2024, 2022 - 2023

ENDÜSTRİYEL UYGULAMALAR II, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2019 - 2020

ÇEVRE VE HALK SAĞLIĞI, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

ENDÜSTRİYEL UYGULAMALAR I, Associate Degree, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

ÇEVRE LABORATUVARI II, Associate Degree, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

ÇEVRE VE GIDA, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019

ÇEVRESEL ETKİ DEĞERLENDİRME, Associate Degree, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

ÇEVRE KORUMA, Associate Degree, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

PROJE, Associate Degree, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014

ÇEVRE TEKNOLOJİLERİ, Associate Degree, 2017 - 2018

ATIKLARIN GERİ KAZANIM TEKNİKLERİ, Associate Degree, 2017 - 2018

ÇEVRE KİMYASI, Associate Degree, 2017 - 2018

GÜRÜLTÜ VE TOZ KİRLİLİĞİ KONTROL TEKNİKLERİ, Associate Degree, 2014 - 2015, 2013 - 2014

ÇEVRE SAĞLIĞI, Associate Degree, 2014 - 2015

ÇEVRE BİLİMİNE GİRİŞ, Associate Degree, 2014 - 2015, 2013 - 2014

LABORATUVAR VE ÖLÇÜM TEKNİKLERİ, Associate Degree, 2014 - 2015, 2013 - 2014

LABORATUVAR VE ÖLÇÜM TEKNİKLERİ, Associate Degree, 2012 - 2013

## Jury Memberships

Post Graduate, Post Graduate, Anadolu Üniversitesi, July, 2023

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

- I. **Greenness assessment and comparison of the developed and validated green HPLC-PDA, HPLC-FLD, and HPLC-ELSD methods for the determination of melatonin in various products using analytical eco-scale, NEMI, GAPI, and AGREE greenness metric tools**  
SEZGİN B., SOYSEVEN M., ARLI G.  
Microchemical Journal, vol.205, 2024 (SCI-Expanded)
- II. **The development and validation of a novel, green, sustainable and eco-friendly HPLC-ELSD method approach for the simultaneous determination of seven artificial sweeteners in various food products: An assessment of the greenness profile of the developed method with an analytical eco-scale, NEMI, GAPI and AGREE**  
SOYSEVEN M., SEZGİN B., ARLI G.  
MICROCHEMICAL JOURNAL, vol.193, 2023 (SCI-Expanded)
- III. **Green, Rapid, Robust Determination of Aspartame in Beverages by High-Performance Liquid Chromatography-Evaporative Light Scattering Detection (HPLC-ELSD): Method Development and Validation**  
Soyseven M., SEZGİN B., Acar E., ARLI G.  
ANALYTICAL LETTERS, vol.56, no.11, pp.1773-1783, 2023 (SCI-Expanded)
- IV. **A novel, rapid and robust HPLC-ELSD method for simultaneous determination of fructose, glucose and sucrose in various food samples: Method development and validation**  
Soyseven M., Sezgin B., Arli G.  
Journal of Food Composition and Analysis, vol.107, 2022 (SCI-Expanded)
- V. **Simultaneous HPLC-DAD determination of seven intense sweeteners in foodstuffs and pharmaceuticals using a core-shell particle column**  
SEZGİN B., Arli G., Can N. Ö.  
Journal of Food Composition and Analysis, vol.97, 2021 (SCI-Expanded)

## Articles Published in Other Journals

- I. **EVALUATION OF GREENNESS PROFILES OF VARIOUS DEVELOPED METHODS FOR THE DETERMINATION OF COMMONLY USED NONSTEROIDAL ANTI-INFLAMMATORY DRUGS (NSAIDs) IN ENVIRONMENTAL WATERS**  
sezgin b., Soyseven M.  
Ankara Üniversitesi Eczacılık Fakültesi Dergisi, vol.48, no.2, pp.535-543, 2024 (Scopus)
- II. **Yüksek Performanslı Sıvı Kromatografisi-Evaporatif Işık Saçılım Dedektörü (HPLC-ELSD) aracılığı ile Bazı Çiçeklerde Bulunan Glukoz, Fruktoz ve Sukroz'un Eş Zamanlı Olarak Miktarlarının Belirlenmesi**  
Soyseven M., Sezgin B., Arli G.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.11, no.2, pp.990-997, 2023 (Peer-Reviewed Journal)
- III. **Tıbbi Laboratuvar Uygulamalarında Çevresel Yaklaşımlar**  
Sezgin B., Soyseven M.  
Anadolu Üniversitesi Mesleki Eğitim ve Uygulama Dergisi, vol.1, no.1, pp.26-33, 2022 (Peer-Reviewed Journal)
- IV. **Piroksikamın pKa Değerinin Yüksek Performanslı Sıvı Kromatografisi ile Belirlenmesi**  
SOYSEVEN M., SEZGİN B., ARLI G.  
European Journal of Science and Technology, no.32, pp.711-715, 2021 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **MELATONİN TAYİNİNDE KULLANILAN ANALİTİK YÖNTEMLER**  
SEZGİN B., SOYSEVEN M., ARLI G.  
in: SAĞLIK BİLİMLERİ ALANINDA AKADEMİK ÇALIŞMALAR -VI, Doç. Dr. Sonat Pınar KARA, Editor, Artikel Akademi, pp.29-44, 2023
- II. **GREEN APPROACHES IN HIGH PERFORMANCE LIQUID CHROMATOGRAPHY: APPLICATIONS IN PHARMACEUTICAL AND FOOD ANALYSIS**  
SEZGİN B., SOYSEVEN M.  
in: Recent Approaches in Mathematics and Natural Science, Prof. Dr. M. Çiğdem SAYIL, Editor, Livre de Lyon, Lyon, pp.111-123, 2022
- III. **RECENT ANALYTICAL STUDIES FOR DETERMINATION OF ANTHOCYANINS**  
SEZGİN B., SOYSEVEN M., ARLI G.  
in: Recent Approaches in Mathematics and Natural Science, Prof. Dr. M. Çiğdem SAYIL, Editor, Livre de Lyon, Lyon, pp.19-29, 2022
- IV. **Liquid Chromatographic Methods Used for Determination of Honey Properties**  
SOYSEVEN M., SEZGİN B.  
in: Theory and Practice in Mathematics and Natural Sciences, Demir, Canan, Editor, Livre de Lyon, Lyon, pp.73-84, 2021
- V. **The Effect of Mobile Phase pH on Capacity Factor and Selectivity in High Performance Liquid Chromatography**  
SOYSEVEN M., SEZGİN B.  
in: Mathematics and Natural Sciences: Research and Theory, Karapınar Rıdvan, Editor, Livre de Lyon, Lyon, pp.57-64, 2021
- VI. **Determination of Sucralose in Beverages by HPLC-ELSD Method**  
SOYSEVEN M., SEZGİN B.  
in: Mathematics and Natural Sciences: Research and Theory, Karapınar, Rıdvan, Editor, Livre de Lyon, Lyon, pp.65-76, 2021
- VII. **Sıvı Kromatografik Yöntemler için Tampon Çözelti Hazırlama**  
SEZGİN B.  
in: Mühendislik Bilimlerinde Yeni Yaklaşımlar, Kavak, Duygu; Polat, Alper, Editor, Livre de Lyon, Lyon, pp.100-110, 2021
- VIII. **Sağlık Açısından Beslenme**  
SEZGİN B., SEZGİN O.  
in: Sağlıklı Yaşam, Kaplancıklı, Zafer Asım, Editor, Anadolu Üniversitesi, Eskişehir, pp.57-78, 2019

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Piroksikamın pKa Değerinin Yüksek Performanslı Sıvı Kromatografisi ile Belirlenmesi**  
SOYSEVEN M., SEZGİN B., ARLI G.  
International Conference on Design, Research and Development 2021 (RDCONF), Turkey, 15 - 18 December 2021
- II. **Türkiye’de Beslenmeye Dayalı Akrilamid Maruziyetinin Değerlendirilmesi**  
SEZGİN B.  
VI.International Battalgazi Scientific Studies Congress, Malatya, Turkey, 8 - 09 May 2021
- III. **Optimization of A Sample Preparation Technique for Determination of Some Food Additives**  
SEZGİN B.  
7th International Symposium on Academic Studies in Science, Engineering and Architecture Sciences, 15 - 17 November 2019
- IV. **Determination of Some Sweeteners Used As Wastewater Indicators in Environmental Waters**  
SEZGİN B.  
7th International Symposium on Academic Studies in Science, Engineering and Architecture Sciences, 15 - 17 November 2019

- V. **Estimated Intake of Some Food Additives**  
SEZGİN B.  
3rd International Symposium on Innovative Approaches in Scientific Studies, 19 - 21 April 2019
- VI. **Estimated Intake of Acesulfame Potassium and Aspartame from Soft Drinks, Foodstuffs and Pharmaceuticals**  
SEZGİN B.  
ICAFOF International Conference on Agriculture, Forest, Food Sciences and Technologies, 2017, 15 - 17 May 2017
- VII. **Simultaneous Determination of Acesulfame Potassium, Saccharin and Aspartame in Beverages by HPLC-DAD**  
SEZGİN B., ARLI G., CAN N. Ö.  
ICAFOF International Conference on Agriculture, Forest, Food Sciences and Technologies, 15 - 17 May 2017
- VIII. **Vocational Schools in The Content of University-Industry Cooperation**  
SEZGİN B.  
International Conference of Strategic Research in Social Science and Education 2016, 14 - 16 October 2016
- IX. **Diyabetik Reçellerde Kullanılan Bazı Yoğun Tatlandırıcıların Yüksek Performanslı Sıvı Kromatografisi ile Eş Zamanlı Analizi**  
SEZGİN B., CAN N. Ö., ARLI G.  
Türkiye 12. Gıda Kongresi, Turkey, 5 - 07 October 2016
- X. **Determination of Acesulfame Potassium Aspartame and Saccharine in Different Pharmaceutical Products**  
ARLI G., SEZGİN B., CAN N. Ö.  
2016 FIP Congress in Buenos Aires (Argentina), Buenos Aires, Argentina, 28 August - 01 September 2016
- XI. **HPLC Determination of Some Intense Sweeteners in Fizzy Drinks Using a Core Shell Silica Particle Column**  
ARLI G., SEZGİN B., CAN N. Ö.  
43rd International Symposium on High Performance Liquid Phase Separations and Related Techniques (HPLC2015-Beijing), Beijing, China, 21 - 25 September 2015
- XII. **Simultaneous determination of seven intense sweeteners in pharmaceutical and food products using a core shell particle column**  
CAN N. Ö., SEZGİN B., ARLI G.  
26th International Symposium on Pharmaceutical and Biomedical Analysis, 5 - 08 July 2015
- XIII. **İyon Değişimi Elektrodializ Yöntemlerinin Birlikte Kullanımı ile Bazı Ağır Metal İyonlarının Giderimi**  
KARABACAKOĞLU B., SEZGİN B.  
VII. Ulusal Kimya Mühendisliği Kongresi, Turkey, 5 - 08 September 2006

## Supported Projects

- SEZGİN B., SOYSEVEN M., ARLI G., Project Supported by Higher Education Institutions, Çeşitli Preparatlarda Melatonin Tayinine Yönelik Çevre Dostu Yüksek Performanslı Sıvı Kromatografisi Yöntemleri Geliştirilmesi ve Yeşillik Metriklerine Uygunluğunun Değerlendirilmesi, 2024 - Continues
- Sezgin B., Soyseven M., Arli G., Project Supported by Higher Education Institutions, Çeşitli Gıdaların Olgunlaşma Derecesine Göre Şeker İçeriklerinin HPLC-ELSD ile belirlenmesi, 2022 - 2023
- Sezgin B., Soyseven M., Arli G., Project Supported by Higher Education Institutions, Bazı Tatlandırıcıların Seri Bağlı HPLC-DAD-ELSD Sistemi ile Çeşitli Gıdalarda Tayini, 2022 - 2023
- Sezgin B., Arli G., Soyseven M., Project Supported by Higher Education Institutions, Bazı Şeker Moleküllerinin Yüksek Performanslı Sıvı Kromatografisi-Evaporatif Işık Saçılım Dedektörü (HPLC-ELSD) ile Tayini, 2021 - 2022
- Sezgin B., Arli G., Soyseven M., Project Supported by Higher Education Institutions, Aripiprazol'un Çeşitli Analitik Yöntemlerle Farmasötik Preparatlardaki Tayini, 2021 - 2022
- Sezgin B., Arli G., Can N. Ö., Kozanlı M., Project Supported by Higher Education Institutions, Ülkemizde Tüketilen Gıdalarda Kullanılan Bazı Stevia Glikozitlerinin Ultra Yüksek Performanslı Sıvı Kromatografisi İle Analizi Üzerine Çalışmalar, 2015 -

2016

Sezgin B., Arli G., Can N. Ö., Project Supported by Higher Education Institutions, İşlenmiş Gıdaların Lezzetini Deęiřtirmek İçin Kullanılan Bazı Katkı Maddelerinin Eřzamanlı Analizi, 2012 - 2015

## **Scientific Refereeing**

EUROPEAN FOOD RESEARCH AND TECHNOLOGY, Journal Indexed in SCI-E, May 2023

Current Research in Nutrition and Food Science, Journal Indexed in ESCI, April 2023

Current Research in Nutrition and Food Science, Journal Indexed in ESCI, March 2023

Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, February 2022

FOOD CONTROL, Journal Indexed in SCI-E, February 2021

## **Metrics**

Publication: 30

Citation (WoS): 28

Citation (Scopus): 30

H-Index (WoS): 2

H-Index (Scopus): 2