

## Asst. Prof. SAHRA DANDIL

### Personal Information

Office Phone: [+90 228 214 1413](tel:+902282141413)

Email: [sahra.ugur@bilecik.edu.tr](mailto:sahra.ugur@bilecik.edu.tr)

Web: <https://avesis.bilecik.edu.tr/sahra.ugur>

### International Researcher IDs

ScholarID: b8gUMIsAAAAJ

ORCID: 0000-0001-9724-5597

Publons / Web Of Science ResearcherID: HKU-4485-2023

ScopusID: 57189842689

Yoksis Researcher ID: 192769

### Education Information

Doctorate, Bilecik Seyh Edebali University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr) (Anadolu Üniv. Ortak), Turkey 2014 - 2019

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), Turkey 2010 - 2013

Undergraduate, Anadolu University, İşletme Fakültesi, İşletme Bölümü, Turkey 2008 - 2012

Undergraduate, Sivas Cumhuriyet University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2006 - 2010

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Nadir toprak elementlerinin ayrılmasında kullanılacak iyonik sıvı sentezi ve geliştirilen iyonojellerin kullanılabilirliğinin incelenmesi, Bilecik Seyh Edebali University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (Dr) (Anadolu Üniv. Ortak), 2019

Postgraduate, Silika nanopartikül esaslı süperhidrofobik ve transparan kompozit filmlerin sentezi ve karakterizasyonu, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), 2013

### Research Areas

Chemical Engineering and Technology, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Bilecik Seyh Edebali University, Meslek Yüksekokulu, Kimya Ve Kimyasal İşleme Teknolojileri, 2020 - Continues

Lecturer, Bilecik Seyh Edebali University, Rektörlük, -, 2019 - 2020

Research Assistant, Bilecik Seyh Edebali University, Mühendislik Fakültesi, Kimya Mühendisliği, 2011 - 2019

## Courses

Kimya Mühendisliği Laboratuvarı I, Undergraduate, 2021 - 2022  
Kimya ve Proses Mühendisliği Temel Prensipleri, Undergraduate, 2021 - 2022  
Membran Teknolojileri, Undergraduate, 2020 - 2021  
Membran Ayırım Prosesleri, Postgraduate, 2020 - 2021  
Lisans Araştırma Projesi, Undergraduate, 2020 - 2021

## Advising Theses

Dandil S., Alternatif bir adsorban olarak kitosan/hegzagonal bor nitür kompozitlerinin sentezi ve Reactive Blue 49 boyar maddesinin adsorpsiyonunda kullanımı, Postgraduate, A.DÜZGÜN(Student), 2022  
Açıkgöz Ç., Dandil S., Alüminyum yüzeyler üzerine süperhidrofobik kaplamaların uygulanmasında proses parametrelerinin deneysel tasarım yöntemleri ile optimizasyonu, Postgraduate, Ç.KARAGÖL(Student), 2022  
Açıkgöz Ç., Dandil S., Reactive blue 3R ve reactive red P4BN tekstil boyar maddelerinin sulu çözeltilerden gideriminde balkabağı atıklarının adsorban olarak kullanılabilirliğinin incelenmesi, Postgraduate, Ö.DURSUN(Student), 2022

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

- I. **Experimental Study on Evaluation of Pumpkin Waste in Removal of Textile Dyes: Preparation, Characterization, Adsorption, and Desorption**  
Dursun Ö., Dandil S., Açıkgöz Ç.  
WATER, AIR AND SOIL POLLUTION : AN INTERNATIONAL JOURNAL OF ENVIRONMENTAL POLLUTION, vol.235, no.198, pp.1-18, 2024 (SCI-Expanded)
- II. **Comparison of structural properties and removal behavior of composites containing chitosan and hexagonal boron nitride in different compositions**  
Duzgun A., Dandil S.  
Separation Science and Technology (Philadelphia), vol.58, no.14, pp.2556-2577, 2023 (SCI-Expanded)
- III. **The Effect of Surface Treatment/Polymer Type on Formation of 3D-Boron Nitride Foams**  
Akpınar Borazan A., Kuru D., Dandil S., Açıkgöz Ç.  
Journal of Nano Research, vol.80, pp.37-48, 2023 (SCI-Expanded)
- IV. **Adsorption of reactive blue 49 onto cross-linked chitosan-based composites containing waste mussel shell and waste active sludge char**  
Sahbaz D. A., DANDIL S., AÇIKGÖZ Ç.  
Water Science and Technology, vol.83, no.3, pp.715-726, 2021 (SCI-Expanded)
- V. **Malonamide-Functionalized Ionic Liquid for Recovery of Rare-Earth Metals from End-Of-Life Products (Lamp Phosphors)**  
Boyd R., Carroll C., Dandil S., AÇIKGÖZ Ç., Ruhela R., Nockemann P.  
ACS Sustainable Chemistry and Engineering, vol.8, no.50, pp.18706-18711, 2020 (SCI-Expanded)
- VI. **Adsorption of Cu(II) ions onto crosslinked chitosan/Waste Active Sludge Char (WASC) beads: Kinetic, equilibrium, and thermodynamic study**  
DANDIL S., Akin Sahbaz D., AÇIKGÖZ Ç.  
International Journal of Biological Macromolecules, vol.136, pp.668-675, 2019 (SCI-Expanded)
- VII. **Easily Accessible Rare-Earth-Containing Phosphonium Room-Temperature Ionic Liquids: EXAFS, Luminescence, and Magnetic Properties**  
Alvarez-Vicente J., Dandil S., Banerjee D., Gunaratne H. N., Gray S., Felton S., Srinivasan G., Kaczmarek A. M., Van Deun R., Nockemann P.  
Journal of Physical Chemistry B, vol.120, no.23, pp.5301-5311, 2016 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The Efficiency of Chamomile in Crystal Violet Dye Removal Processes**  
DANDIL S.  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2023 (Peer-Reviewed Journal)
- II. **Effective Dye Adsorption with Cross-linked Hexagonal Boron Nitride Spheres**  
Dandil S., Düzgün A.  
Bilge International Journal of Science and Technology Research, vol.7, no.2, pp.95-104, 2023 (Peer-Reviewed Journal)
- III. **Removal of crystal violet dye by a novel adsorbent derived from waste active sludge used in wastewater treatment**  
Sahbaz D. A., DANDIL S., AÇIKGÖZ Ç.  
Water Quality Research Journal, vol.54, no.4, pp.299-308, 2019 (Scopus)
- IV. **High performance adsorption of hazardous triphenylmethane dye-crystal violet onto calcinated waste mussel shells**  
DANDIL S., Sahbaz D. A., AÇIKGÖZ Ç.  
Water Quality Research Journal, vol.54, no.3, pp.249-256, 2019 (Scopus)
- V. **Investigation of the effect of silica sources on ionogels prepared from imidazolium based ionic liquid via sol-gel method**  
DANDIL S., AÇIKGÖZ Ç.  
Journal of Engineering Research and Applied Science, vol.8, no.1, pp.1006-1012, 2019 (Peer-Reviewed Journal)
- VI. **Kinetic Studies on the Removal of Reactive Blue 49 Dye from Aqueous Solution onto Chitosan-Activated Sludge Composite Particles**  
AKIN ŞAHBAZ D., DANDIL S., AÇIKGÖZ Ç.  
Biological and Chemical Research, vol.6, pp.19-29, 2019 (Peer-Reviewed Journal)
- VII. **Equilibrium and Kinetic Studies of Reactive Black 8 Adsorption onto Crosslinked Chitosan Beads**  
DANDIL S., AKIN ŞAHBAZ D., AÇIKGÖZ Ç.  
Journal of Chemistry and Chemical Engineering, vol.13, no.1, pp.1-7, 2019 (Peer-Reviewed Journal)
- VIII. **Removal of dimozol red dye by adsorption onto chitosan/marble powder composite: adsorption kinetics and isotherms**  
AKIN ŞAHBAZ D., DANDIL S., AÇIKGÖZ Ç.  
Journal of Engineering Research and Applied Science, vol.7, no.2, pp.869-877, 2018 (Peer-Reviewed Journal)
- IX. **Investigation on surface characteristics of uncalcinated and calcinated mussel shells**  
DANDIL S., AKIN ŞAHBAZ D., AÇIKGÖZ Ç.  
New Trends and Issues Proceedings on Advances in Pure and Applied Sciences, no.9, pp.52-57, 2017 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **ADSORPTION OF COPPER IONS WITH UNTREATED NATURAL CHAMOMILE PLANT POWDERS**  
Dandil S.  
5. INTERNATIONAL MEDITERRANEAN CONGRESS, Mersin, Turkey, 13 - 14 January 2024, pp.969-970
- II. **Performance of Pumpkin Waste in Mercury Removal**  
Dandil S., Dursun Ö., Açıkgöz Ç.  
9. ULUSLARARASI ANKARA BİLİMSEL ARAŞTIRMALAR KONGRESİ, Ankara, Turkey, 26 - 28 December 2023, pp.883-886
- III. **Efficiency of Activated Carbon Obtained from Rosehip Marmalade Waste in Reactive Blue 28 Dye Adsorption**  
Dandil S.  
9th International Conference on Environmental Science and Technology (ICOEST), Sarajevo, Bosnia And

Herzegovina, 17 - 21 May 2023, pp.88-93

- IV. **Investigation of Adsorption Behavior of Activated Carbon Obtained from Chamomile and Kinetic Studies**  
Dandil S.  
9th INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY (ICOEST), Sarajevo, Bosnia And Herzegovina, 17 - 21 May 2023, pp.149-154
- V. **Dye Adsorption from Aqueous Solutions by Rosehip Marmalade Waste**  
Dandil S.  
AHI EVRAN 3rd INTERNATIONAL CONFERENCE ON SCIENTIFIC RESEARCH, Baku, Azerbaijan, 3 - 04 May 2023, pp.302-306
- VI. **Adsorption of Reactive Blue 49 Dye with Chitosan/Hexagonal Boron Nitride Composites**  
DUZGUN A., DANDIL S.  
INTERNATIONAL ASIAN CONGRESS ON CONTEMPORARY SCIENCES-VI, Van, Turkey, 27 - 29 May 2022
- VII. **Optimization of Parameters Using the Taguchi Method to Achieve Superhydrophobic Coatings on Aluminum Surfaces**  
KARAGÖL Ç., DANDIL S., AÇIKGÖZ Ç.  
INTERNATIONAL ASIAN CONGRESS ON CONTEMPORARY SCIENCES-VI, Van, Turkey, 27 - 29 May 2022
- VIII. **Investigation of the Usage of Chitosan/Hexagonal Boron Nitride Composite as an Adsorbent in Reactive Black 8 Textile Dye Removal From Aqueous Solutions**  
DANDIL S., USLU S., YILMAZ N., AÇIKGÖZ Ç.  
III. INTERNATIONAL HALICH CONGRESS ON MULTIDISCIPLINARY SCIENTIFIC RESEARCH, i, Turkey, 13 May 2022
- IX. **Investigation on Thermodynamics of the Dye Adsorption Process using the Waste Containing Shell and Seed of Pumpkin**  
DURSUN Ö., DANDIL S., AÇIKGÖZ Ç.  
INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS, Nevşehir, Turkey, 15 - 17 December 2021, pp.251-259
- X. **Fabrication of superhydrophobic surfaces on aluminum substrates by dip coating method**  
DANDIL S., KARAGOL C., KAYIKCI M., KISACIK B. Y., AÇIKGÖZ Ç.  
2ND INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES (EURASIANBIOCHEM 2019), 28 - 29 June 2019
- XI. **Improvement of superhydrophobic coatings on aluminum surfaces by acid etching method using phosphoric acid**  
DANDIL S., KARAGOL C., KAYIKCI M., KISACIK B. Y., AÇIKGÖZ Ç.  
2ND INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES (EURASIANBIOCHEM 2019), 28 - 29 June 2019
- XII. **Kinetic studies on the removal of Reactive Blue 49 dye from aqueous solution onto chitosan-activated sludge composite particles**  
DANDIL S., AKIN ŞAHBAZ D., AÇIKGÖZ Ç.  
3rd International Conference on Engineering Technology and Applied Sciences Congress (ICETAS2018), 17 - 21 July 2018
- XIII. **Chitosan-mussel shell composites as a novel adsorbent to remove Reactive Blue 49 dye from aqueous solution: Kinetic study**  
DANDIL S., AKIN ŞAHBAZ D., AÇIKGÖZ Ç.  
3rd International Conference on Engineering Technology and Applied Sciences Congress (ICETAS2018), 17 - 21 July 2018
- XIV. **Isotherm and kinetic studies on removing of anionic textile dye using waste seafood shells**  
DANDIL S., AKIN ŞAHBAZ D., UYGUN D., UNAL B. T., AÇIKGÖZ Ç.  
INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES (EURASIANBIOCHEM 2018), 26 - 27 April 2018
- XV. **Equilibrium and kinetic studies of reactive black 8 adsorption onto crosslinked chitosan beads**  
AKIN ŞAHBAZ D., DANDIL S., UYSAL S., ORENAY O., AÇIKGÖZ Ç.

INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES (EURASIANBIOCHEM 2018),  
26 - 27 April 2018

- XVI. **Valorization of Adsorption Isotherms of Crystal Violet Dye Removal from Aqueous Solutions by Waste Activated Sludge**  
AKIN ŞAHBAZ D., DANDIL S., AÇIKGÖZ Ç.  
4th International Symposium on Multidisciplinary Studies (ISMS), Paris, France, 26 - 27 April 2018, pp.54
- XVII. **Production and Characterization of Active Carbon Obtained from Active Sludge by Chemical Activation**  
DANDIL S., AKIN ŞAHBAZ D., AÇIKGÖZ Ç.  
3rd International Porous and Powder Materials Symposium and Exhibition, Kuşadası, Turkey, 12 - 15 September 2017
- XVIII. **An efficient removal of Dimozol Red from waste water by adsorption onto chitosan/marble powder composite: a novel low-cost adsorbent**  
AKIN ŞAHBAZ D., DANDIL S., AÇIKGÖZ Ç.  
15th International Conference on Environmental Science And Technology, Rhodes, Greece, 31 August - 02 September 2017
- XIX. **Removal of Reactive Blue 221 dye by adsorption onto Crosslinked Chitosan Particles: Kinetic Studies.**  
DANDIL S., AKIN ŞAHBAZ D., AÇIKGÖZ Ç.  
ICOCEE – CAPPADOCIA 2017, 8 - 10 May 2017
- XX. **Cam Yüzeylerde Elde Edilen Süperhidrofobik ve Transparan Özelikler Üzerine Farklı Nanopartikül Konsantrasyonlarının ve Çözeltilerin Etkisi**  
DANDIL S., BİÇER A.  
11. ULUSAL KİMYA MÜHENDİSLİĞİ KONGRESİ, Turkey, 2 - 05 September 2014
- XXI. **Synthesis and Characterization of Superhydrophobic and Transparent Thin Films Based on Nanoparticle**  
BİÇER A., DANDIL S.  
2nd INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 14 - 17 May 2014

## Supported Projects

DANDIL S., SUSTAN H., DANDIL E., Project Supported by Higher Education Institutions, Çilek meyvesinin sapsarı kullanılarak boyar madde giderimi ve prosesin makine öğrenmesi ile modellenmesi, 2024 - Continues

DANDIL S., Project Supported by Higher Education Institutions, Atık Sulardan Ağır Metallerin Adsorpsiyonunda Kitosan/Hegzagonal Bor Nitrit Kompozitlerin Adsorban Olarak Kullanılabilirliğinin İncelenmesi, 2022 - 2023

AÇIKGÖZ Ç., AKPINAR BORAZAN A., KURU D., DANDIL S., AKIN ŞAHBAZ D., Project Supported by Higher Education Institutions, Hegzagonal Bor Nitritin Alüminyum, Magnezyum ve Paslanmaz Çelik Yüzeyler Üzerine Kaplanması ve Kaplanmış Yüzeylerin Karakterizasyonu, 2018 - 2020

KURU D., AÇIKGÖZ Ç., DANDIL S., Other International Funding Programs, Hegzagonal Bor Nitritin Alüminyum, Magnezyum ve Paslanmaz Çelik Yüzeyler Üzerine Kaplanması ve Kaplanmış Yüzeylerin Karakterizasyonu, 2018 - 2020

DANDIL S., Eco-Friendly Farming For Future, 2017 - 2020

DANDIL S., AÇIKGÖZ Ç., AKPINAR BORAZAN A., KURU D., Project Supported by Higher Education Institutions, Bor Nitrit Nanosheet Köpük Kompozitlerinin Üretimi, Karakterizasyonu ve Adsorban Olarak Kullanılabilirliği, 2018 - 2019

AÇIKGÖZ Ç., DANDIL S., Project Supported by Higher Education Institutions, Nadir Toprak Metallerinin Ekstraksiyon ve Ayrıştırılmasında Ayırma Ortamı (Membran) Olarak Yeni İyonik Sıvı Hibrit Malzemelerin Sentezlenmesi, 2017 - 2019

AÇIKGÖZ Ç., DANDIL S., Project Supported by Higher Education Institutions, Nadir Toprak Metallerinin Ekstraksiyon ve Ayrıştırılmasında Ayırma Ortamı (Membran) Olarak Yeni İyonik Sıvı Hibrit Malzemenin Sentezlenmesi, 2017 - 2019

DANDIL E., DANDIL S., E-Learning Platform for Medical Informatics to Improve Vocational and ICT Practice (E-MEDIVIP), 2015 - 2018

TÜRKYILMAZ T., TÜRKYILMAZ S., KARAKURT C., DANDIL S., YARGIÇ A. Ş., YARBAY R. Z., URAL N., KAZAK ÇERÇEVİK N.,

YALÇIN N., YAMIK H., et al, TUBITAK Project, Mühendislik Bilim Okulu, 2012 - 2013

DANDIL S., Project Supported by Higher Education Institutions, Transparan Süperhidrofilik ve Süperhidrofobik Yüzeylerin Sentezi ve Özelliklerinin Geliştirilmesi, 2012 - 2013

## **Scholarships**

2214-A Yurt Dışı Doktora Sırası Araştırma Burs Programı, TUBITAK, 2010 - 2017

Yüksek Lisans Araştırma Desteği, YOK, 2012 - 2012