

# ADEM SARIHAN

## ASSOC. PROF.

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: A-4423-2016

ScopusID: 51161962300

Yoksis Researcher ID: 40426



## Biography

He graduated from Uludağ University, Faculty of Arts and Sciences, Department of Chemistry in 2008. He started his academic life as a Research Assistant at Bilecik Seyh Edebali University (BSEU) in 2010. He completed his master's degree in Chemistry at Uludağ University Institute of Science and Technology in 2010. In 2015, he completed his PhD education at Dumlupınar University, Institute of Science, Department of Chemistry, with his thesis on "Preparation and testing of new hydrophilic composite membranes for water treatment systems" and started working as an Assistant Professor at BSEU in the same year. In 2017, he completed a 1-year Post-Doctorate degree in England (University of Bath) with the Tübitak 2219 International Postdoctoral Research Scholarship. He received the title of Associate Professor in 2022 and in the same year, he started working as an Associate Professor in Department of Chemistry, Faculty of Science of BŞEÜ and he still continues to work in the same position.

## Education

Post Doctorate 2017 - 2018	University of Bath, Faculty of Engineering & Design, Department of Chemical Engineering, England
Doctorate 2011 - 2015	Kütahya Dumlupınar University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey
Postgraduate 2008 - 2010	Bursa Uludağ University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey
Undergraduate 2004 - 2008	Bursa Uludağ University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Su arıtım sistemleri için yeni su sever katkılı kompozit membranların hazırlanması ve test edilmesi, Kütahya Dumlupınar University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2015

Postgraduate, Veratril alkol veratril aldehit çiftinin voltametrik davranışının ve yan yana analizlenebilirliğinin incelenmesi, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Kimya (Yl) (Tezli), 2010

## Academic Titles / Tasks

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Associate Professor 2022 - Continues	Bilecik Seyh Edebali University, Fen Fakültesi, Kimya
Assistant Professor 2021 - 2022	Bilecik Seyh Edebali University, Meslek Yüksekokulu, Çevre Koruma Teknolojileri
Assistant Professor 2015 - 2021	Bilecik Seyh Edebali University, Meslek Yüksekokulu, Kimya Ve Kimyasal İşleme Teknolojileri
Research Assistant 2010 - 2015	Bilecik Seyh Edebali University, Fen Fakültesi, Kimya

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## Supported Projects

1. SARIHAN A., Elektriksel Potansiyel Uygulaması İle Grafen Katkılı Kompozit Membranlarda In-Situ Kirlenme Kontrolü, 2021 - Continues
2. SARIHAN A., Project Supported by Higher Education Institutions, PSf ve PVDF Kompozit Membranların, Misel Destekli Ultrafiltrasyon (MDUF) Tekniği ile Organik Molekül Dışlama Performanslarının İncelenmesi, 2016 - 2017
3. EREN E., SARIHAN A., GÜMÜŞ H., Project Supported by Higher Education Institutions, Polisülfon Metaloksit Kompozit Membranların Hazırlanması Karakterizasyonu ve Atık Su Arıtma İşlemlerinde Uygulanabilirliklerinin İncelenmesi, 2014 - 2015
4. Sarıhan A., Eren B., Project Supported by Higher Education Institutions, Biyolojik Aktif Bazlı Benzimidazol Türevlerinin Sentezi ve Yapılarının Deneysel ve Teorik Olarak İncelenmesi, 2012 - 2014
5. SARIHAN A., GÜMÜŞ H., Project Supported by Higher Education Institutions, Sentetik Zeolit Destekli Heteropoliasit Katalizörleri Kullanılarak Bazı Sübstitüe Benzimidazol ve Bisbenzimidazol Türevlerinin Tek Adımda Sentezi, 2011 - 2013
6. GÜMÜŞ H., TÜRE S., SARIHAN A., Project Supported by Higher Education Institutions, Bazı Monosiklik Lineer Alkil Sübstitüe Fosfazenler ve Anza tipi Makrosiklik Fosfazenler in metal kompleksleri, 2011 - 2012

## Scholarships

2219 - International Postdoctoral Research Scholarship, TUBITAK, 2017 - 2018

2211-C Öncelikli Alanlara Yönelik Yurt İçi Doktora Burs Programı, TUBITAK, 2013 - 2015

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

1. **Uv degradation of naproxen adsorbed on graphite oxide**

- Sarihan A., Balbay Ş.  
Desalination and Water Treatment, vol.230, pp.419-429, 2021 (SCI-Expanded)
2. **Fabrication of self-doped sulfonated polyaniline membranes with enhanced antifouling ability and improved solvent resistance**  
Amura I. F., Shahid S., SARIHAN A., Shen J., Patterson D. A., Emanuelsson E. A. C.  
Journal of Membrane Science, vol.620, 2021 (SCI-Expanded)
  3. **Development of high-permeable PSf/PANI-PAMPSA composite membranes with superior rejection performance**  
SARIHAN A.  
Materials Today Communications, vol.24, 2020 (SCI-Expanded)
  4. **Flux-enhanced polysulfone membranes blended with ABPBI as a novel additive**  
Sarihan A., Eren E., Eren B., Erdoğan Y.  
Materials Today Communications, vol.20, 2019 (SCI-Expanded)
  5. **Exploiting the electrical conductivity of poly-acid doped polyaniline membranes with enhanced durability for organic solvent nanofiltration**  
Sarihan A., Shahid S., Shen J., Amura I., Patterson D. A., Emanuelsson E. A. C.  
Journal of Membrane Science, vol.579, pp.11-21, 2019 (SCI-Expanded)
  6. **Enhanced adsorption of cationic and anionic dyes from aqueous solutions by polyacid doped polyaniline**  
Shen J., Shahid S., Amura I., Sarihan A., Tian M., Emanuelsson E. A.  
Synthetic Metals, vol.245, pp.151-159, 2018 (SCI-Expanded)
  7. **Effect of polyacid dopants on the performance of polyaniline membranes in organic solvent nanofiltration**  
Shen J., Shahid S., Sarihan A., Patterson D. A., Emanuelsson E. A.  
Separation and Purification Technology, vol.204, pp.336-344, 2018 (SCI-Expanded)
  8. **Novel high performed and fouling resistant PSf/ZnO membranes for water treatment**  
SARIHAN A., EREN E.  
Membrane Water Treatment, vol.8, no.6, pp.563-574, 2017 (SCI-Expanded)
  9. **Preparation, characterization and performance enhancement of polysulfone ultrafiltration membrane using PBI as hydrophilic modifier**  
Eren E., Sarihan A., Eren B., Gümüş H., Kocak F.  
Journal of Membrane Science, vol.475, pp.1-8, 2015 (SCI-Expanded)
  10. **Surface acidity of H-birnessite: Infrared spectroscopic study of formic acid decomposition**  
Eren E., Gümüş H., Eren B., Sarihan A.  
Spectroscopy Letters, vol.46, no.1, pp.60-66, 2013 (SCI-Expanded)
  11. **An investigation of the catalytic decomposition of formic acid on raw and manganese oxide coated sepiolite surfaces**  
EREN E., GÜMÜŞ H., SARIHAN A.  
Applied Clay Science, vol.62-63, pp.1-7, 2012 (SCI-Expanded)
  12. **Structural analysis of naproxen-intercalated bentonite (Unye)**  
Tabak A., YILMAZ N., EREN E., ÇAĞLAR B., Afsin B., SARIHAN A.  
Chemical Engineering Journal, vol.174, no.1, pp.281-288, 2011 (SCI-Expanded)
  13. **Synthesis, structural characterization and Pb(II) adsorption behavior of K- and H-birnessite samples**  
EREN E., GÜMÜŞ H., SARIHAN A.  
Desalination, vol.279, no.1-3, pp.75-85, 2011 (SCI-Expanded)

#### Articles Published in Other Journals

1. **PAMPSA Yüklendiği Polianilin Kullanılarak Sulu Ortamdan Naproksen Giderimi**  
SARIHAN A.

- Avrupa Bilim ve Teknoloji Dergisi, no.27, pp.177-185, 2021 (Peer-Reviewed Journal)
2. **Dünyada ve Türkiye’de “Döngüsel Ekonomi / Endüstriyel Sürdürülebilirlik” Yaklaşımı**  
Balbay Ş., Sarıhan A., Avşar E.  
Avrupa Bilim ve Teknoloji Dergisi, vol.2021, no.27, 2021 (Peer-Reviewed Journal)
  3. **PBIOH su sever katkısı kullanılarak yüksek performans ve kirlenme dirençli polisülfon membranların hazırlanması ve karakterizasyonu**  
SARIHAN A., EREN E., EREN B., ERDOĞAN Y.  
Dumlupınar Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2017 (Peer-Reviewed Journal)

## Books

1. **MEMBRAN KİRLENME PROBLEMLERİ VE ÇÖZÜM YÖNTEMLERİ**  
Sarıhan A.  
in: Fen Bilimleri ve Matematikte Teori ve Araştırmalar II, PROF. DR. HASAN AKGÜL - DOÇ. DR. MEHMET YÜKSEL, Editor, Gece Kitaplığı / Gece Publishing, Ankara, pp.133-154, 2020
2. **ORGANİK SOLVENT NANOFİLTRASYON (OSN) MEMBRANLARI**  
Sarıhan A.  
in: GELECEĞİN DÜNYASINDA BİLİMSEL VE MESLEKİ ÇALIŞMALAR 2020 FEN BİLİMLERİ / I, PROF. DR. CEM CÜNEYT ERSANLI - DOÇ. DR. ELİF TEZEL ERSANLI - ARŞ. GÖR. DR. CANAN BAŞLAK, Editor, Ekin Yayınevi (Ekin Basım Yayın Dağıtım), Bursa, pp.4-20, 2020

## Papers Published in Refereed Scientific Meetings

1. **POLYANILINE BASED CROSSLINKED NANOFILTRATION MEMBRANES: PREPARATION, CHARACTERIZATION AND REJECTION STUDIES**  
SARIHAN A.  
9th International Conference on Advanced Technologies (ICAT'20), İstanbul, Turkey, 10 - 12 August 2020
2. **PREPARATION, STRUCTURAL AND MORPHOLOGICAL CHARACTERIZATIONS OF PVDF MEMBRANES MODIFIED WITH POLY(2-ACRYLAMIDO-2-METHYL-1-PROPANESULFONIC ACID DOPED POLYANILINE**  
SARIHAN A.  
8th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Ankara, Turkey, 12 June 2020
3. **DEVELOPMENT OF NOVEL HEAT TREATED PANI-PAMPSA NANOFİLTRATİON MEMBRANES FOR WATER TREATMENT**  
SARIHAN A.  
II. International Turkish World Engineering and Science Congress, Antalya, Turkey, 7 - 09 November 2019
4. **Preparation Characterization and Rejection Studies of Polybenzimidazole Derivative Terpolymer Blended Polysulfone Membranes**  
SARIHAN A., EREN E.  
1st INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES (1st IBCESS), 31 August - 03 September 2016
5. **Improving the performance and antibacterial ability of polysulfone ultrafiltration membranes by using zinc oxide nanoparticles**  
SARIHAN A., EREN E.  
International Conference on Engineering and Natural Sciences (ICENS) 2016, saraybosna, Bosnia And Herzegovina, 24 - 28 May 2016
6. **PBIOH Su Sever Katkısı Kullanılarak Yüksek Performanslı ve Kirlenme Dirençli Polisülfon Membranların Hazırlanması**  
SARIHAN A., EREN B., EREN E.  
2.Ulusal Çevre Kongresi, Turkey, 22 - 25 October 2015

7. **PVDF Membranların Filtrasyon Özellikleri ve Performansları Üzerine Su Sever Birnesit Partiküllerin Etkisi**  
EREN E., GÜMÜŞ H., EREN B., SARIHAN A., GÜNEY M.  
2.Ulusal Çevre Kongresi, Turkey, 22 - 25 October 2015
8. **Polisülfon Ultrafiltrasyon Membranların Performans ve Kirlenme Dirençlerinin ABPBI Katkısı Kullanılarak İyileştirilmesi**  
EREN B., SARIHAN A.  
2.Ulusal Çevre Kongresi, Turkey, 22 - 25 October 2015
9. **Birnesit Katalizörünün Yüzey Asitliğinin Belirlenmesi**  
GÜMÜŞ H., EREN E., SARIHAN A.  
III. Fiziksel Kimya Günleri, Turkey, 12 - 15 July 2012
10. **Experimental and Spectroscopic Studies on 2 Thiophen 2 YL 1H Benzimidazole**  
EREN B., ÜNAL A., SARIHAN A.  
7th Eurasian Meeting on Heterocyclic Chemistry, 17 - 21 June 2012
11. **Naproxen Sepiolite N Sepiolite Composite Characterization**  
TABAK A., HASİME P., EREN B., ÇAĞLAR B., AFŞİN B., SARIHAN A.  
Euroclay 2011, European Clay Conference, 26 June - 01 July 2011
12. **Veratril Alkol ve Veratril Aldehit in Voltametik Olarak Yan Yana Analizlenebilirliği**  
SARIHAN A., ŞENER Ş., TÜRKDEMİR M. H.  
5. Ulusal Analitik Kimya Kongresi, Turkey, 21 - 25 June 2010
13. **Oksalik Asit in Voltametik Davranışının İncelenmesi**  
ŞENER Ş., SARIHAN A., TÜRKDEMİR M. H.  
5. Ulusal Analitik Kimya Kongresi, Turkey, 21 - 25 June 2010
14. **Preparation of a Leak Proof Voltammetric Ag AgCl Reference Electrode for Aqueous HF Solutions**  
ŞENER Ş., SARIHAN A., TÜRKDEMİR M. H.  
8th International Electrochemistry Meeting in Turkey, 8 - 11 October 2009

## Academic and Administrative Experience

2022 - 2025	<b>Assistant Director of the Institute</b>	Bilecik Seyh Edebali University, Institute Of Graduate Education
2019 - 2022	<b>Head of Department</b>	Bilecik Seyh Edebali University, Meslek Yüksekokulu, Kimya Ve Kimyasal İşleme Teknolojileri

## Courses

### Postgraduate

POLYMERIC MEMBRANES AND FILTRATION PROCESSES, Postgraduate, 2022 - 2023

Green Chemistry, Postgraduate, 2022 - 2023

### Undergraduate

Fizikokimya II, Undergraduate, 2015 - 2016

Fizikokimya Laboratuvarı II, Undergraduate, 2015 - 2016

### Associate Degree

Polimer Teknolojisi, Associate Degree, 2020 - 2021, 2019 - 2020

Çevre ve Enerji, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2015 - 2016

İçme Suyu Arıtımı, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2016 - 2017

Fizikokimya, Associate Degree, 2018 - 2019

Analitik Kimya ve Laboratuvarı, Associate Degree, 2016 - 2017

Enstrümental Analiz, Associate Degree, 2016 - 2017  
Endüstriye Dayalı Mesleki Eğitim, Associate Degree, 2015 - 2016  
Genel Kimya, Associate Degree, 2015 - 2016

## Supervised Theses

SARIHAN A., Grafen katkılı polisülfon kompozit membranların kirlenme özelliklerinin incelenmesi ve kirlenme kontrolü, Postgraduate, G.GÖLGELEYEN(Student), 2023  
SARIHAN A., Elektrik iletkenliği iyileştirilmiş polianilin membranların hazırlanma koşullarının ve kirlenme özelliklerinin incelenmesi, Postgraduate, H.OĞUZ(Student), 2023

## Activities in Scientific Journals

Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, Editor, 2022 - Continues

## Peer Reviews in Scientific Publications

MEMBRANE WATER TREATMENT, SCI Journal, July 2019  
International Journal of Membrane Science and Technology, Other Indexed Journal, April 2018  
Research & Reviews: Journal of Material Sciences, Other Indexed Journal, July 2017

## Tasks In Event Organizations

Özan K., Işık M., Balbay Ş., Alanyalıoğlu M., Sarihan A., Savaş A. F., Samav Y., Akgören Palabıyık G., Kaplan M., Tozoğlu F., et al., 1. Endüstriyel Sürdürülebilirlik ve Yeşil Dönüşüm Çalıştayı, Workshop Organization, Bilecik, Turkey, Ekim 2023

## Metrics

Publication: 32  
Citation (Scopus): 420  
H-Index (Scopus): 9

## Research Areas

Water Pollution and Control, Polymer Technology, Membrane Technology, Chemistry, Conductive Polymers, Composites, Characterization of Polymers, Polymeric Films, Polymeric Materials