

## **Res. Asst. Aysa Güvensoy Morkoyun**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: ABC-9916-2020

ScopusID: 57220598883

Yoksis Researcher ID: 268526

### **Education Information**

Doctorate, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, Turkey 2019 - Continues

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey 2016 - 2018

Undergraduate Double Major, Istanbul Technical University, Fen-Edebiyat, Moleküler Biyoloji Ve Genetik, Turkey 2013 - 2018

Undergraduate, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, Turkey 2011 - 2016

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Postgraduate, Fabrication of Amino Acid Functionalized CNT/Polyamide Thin Film Nanocomposite Desalination Membranes, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 2018

### **Research Areas**

Chemical Engineering and Technology, Membrane Technology, Nanomaterials, Biological Modelling

### **Academic Titles / Tasks**

Research Assistant, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 2017 - Continues

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

- I. Desalination Potential of Aquaporin-Inspired Functionalization of Carbon Nanotubes: Bridging Between Simulation and Experiment

- Güvensoy Morkoyun A., Velioglu S., Ahunbay M. G., Ersolmaz Ş. B.  
ACS APPLIED MATERIALS & INTERFACES, vol.14, no.24, pp.28174-28185, 2022 (SCI-Expanded)
- II. Paper Carbon nanotubes integrated into polyamide membranes by support pre-infiltration improve the desalination performance  
Güvensoy Morkoyun A., Kürklü Kocaoğlu S., Yıldırım C., Velioglu S., Karahan H. E., Bae T., Tantekin-Ersolmaz S. B. CARBON, vol.185, pp.546-557, 2021 (SCI-Expanded)
- III. Computational assessment of thermostability in miRNA:CNT system using molecular dynamics simulations  
Güvensoy Morkoyun A., Kurkcuglu O.  
BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS, vol.1865, no.2, 2021 (SCI-Expanded)

## Supported Projects

Ersolmaz Ş. B., Ahunbay M. G., TÜBİTAK International Bilateral Joint Cooperation Program Project, Nanocomposite membranes of novel high-free volume polymers for separation of helium, nitrogen, CO<sub>2</sub>, and C<sub>2</sub>-C<sub>4</sub> hydrocarbons from natural gas/biogas, 2021 - 2024

Ersolmaz Ş. B., Güvensoy A., Project Supported by Higher Education Institutions, Amino asit fonksiyonelleştirilmiş karbon nanotüp katkılı ince film nanokompozit membran üretimi, 2017 - 2019

Ersolmaz Ş. B., Oral Ç., Sirkecioğlu A., Ahunbay M. G., TUBITAK Project, Yüksek Bor Ayırma Kapasitesine Sahip Yeni Nesil Ince Film Nanokompozit Desalinasyon Membranı Üretimi, 2015 - 2018

## Scientific Research / Working Group Memberships

Membrane Materials And Separations , Istanbul Technical University, Turkey, <http://memasep.itu.edu.tr/index.php>, 2016  
- Continues

## Metrics

Publication: 5

## Congress and Symposium Activities

Lindau Nobel Laureate Meetings, Attendee, Ulm, Germany, 2022  
Euromembrane 2018, Attendee, Valencia, Spain, 2018  
12. Ulusal Kimya Mühendisliği Kongresi, Attendee, İzmir, Turkey, 2016