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
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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., Yildirim 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., Kurkcuoglu 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, CO2, and C2-C4 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