

## Res. Asst. GÜLAY ARSLAN ÇENE

### Personal Information

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### International Researcher IDs

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### Biography

Gülay Arslan is a research assistant at Marmara University Environmental Engineering Department in Istanbul, Turkey. She received her Bachelor's degree in Environmental Engineering from Istanbul University in 2012. She completed her M.S. degree in Environmental Engineering from Marmara University in 2016. As of October 6, She is a visiting scholar at Duke University and she is currently a Ph.D. candidate in the Department of Environmental Engineering at Marmara University, Turkey. Her current research interests include membrane processes, ion exchange, adsorption.

### Education Information

Doctorate, Marmara University, Faculty of Engineering, Environmental Engineering, Turkey 2016 - Continues

Postgraduate, Marmara University, Faculty of Engineering, Environmental Engineering, Turkey 2013 - 2016

Undergraduate, Istanbul University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, Turkey 2008 - 2012

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Postgraduate, Ammonium Ion Removal In Segregated Fluidized Beds: Effects of Flow Rate and Number of Segregated Layers, Marmara Üniversitesi, Faculty of Engineering, Environmental Engineering, 2016

### Research Areas

Environmental Engineering, Water Pollution and Control, Water Supply and Treatment

### Academic Titles / Tasks

Research Assistant, Marmara University, Faculty of Engineering, Environmental Engineering, 2012 - Continues

Researcher, Duke University, M hendislik Fak ltesi, İnřaat ve  evre M hendislięi B l m  , 2021 - 2022

Researcher, Duke University, M hendislik Fak ltesi, İnřaat ve  evre M hendislięi B l m , 2019 - 2020

## Books & Book Chapters

- I. **Comparison of K-means and Fuzzy C-means Clustering Algorithms on Water Quality Parameters: Case Study of Ergene Basin for 17 Stations**  
Arslan  ene G., Parim C.,  ene E.  
in: Current Debates on Natural and Engineering Sciences 9, Hikmet Y.  oęun, İřhak Parlar, Hasan  zmuř, Editor, Bilgin K lt r Sanat Yayınları, Ankara, pp.145-159, 2023

## Refereed Congress / Symposium Publications in Proceedings

- I. **Comparison of K - Means and Fuzzy C - Means Clustering Algorithms on Water Quality Parameter: Case Study of Ergene Basin of 17 Stations**  
Arslan  ene G., Parim C.,  ene E.  
3.Uluslararası M hendislik ve Doęa Bilimleri  alıřmaları Kongresi' (ICENSS-2023), Ankara, Turkey, 24 - 25 May 2023, pp.1-2
- II. **Preparation of Calcium Carbonate Nanoparticles: Adsorption and Desorption Behaviour of Organic Matter**  
Zolfagharian P., ARSLAN G., YİęİT HUNCE S., SOYER E.  
3rd EWaS International Conference on "Insights on Water-Energy-Food-Nexus", Greece, 27 - 30 June 2018, vol.2, pp.655
- III. **Removal of Dissolved Organics from Water: Effect of Calcium Carbonate Particles on Membrane Fouling. 10th Eastern European Young Water Professionals Conference**  
Arslan G., Soyer E., Zolfagharian P., Yięit H nce S.  
10th Eastern European Young Water Professionals Conference, Zagreb, Croatia, 7 - 12 May 2018, pp.187-188
- IV. **Ammonium Ion Exchange in Fluidized Bed Reactors: Effects of Expansion Ratio and Layer Composition**  
ARSLAN G., SOYER E.  
9th Eastern European Young Water Professionals Conference, Budapest, Hungary, 23 - 27 May 2017
- V. **Ion Exchange Assisted Membrane Filtration using Clinoptilolite Powders.**  
Arslan G., Soyer E.  
International Porous and Powder Materials Symposium and Exhibition.PPM2015, İzmir, Turkey, 15 - 18 September 2015

## Supported Projects

Arslan  ene G., Project Supported by Higher Education Institutions, MICRO/NANO ADSORBENT ASSISTED MEMBRANE FILTRATION FOR THE REMOVAL OF ORGANIC MATTER, 2022 - 2023

Arslan  ene G., Project Supported by Higher Education Institutions, Tabakalařmıř Akıřkan Yataklı Reakt rlerde Amonyum İyonu Giderimi Akıřkanlařma Hızı ve Tabaka Sayısı Etkisi, 2014 - 2016

## Metrics

Publication: 6

**Non Academic Experience**

Duke University  
Duke University