

## Res. Asst. PhD GÜLAY ARSLAN ÇENE

### Personal Information

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### International Researcher IDs

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### Biography

Gülay Arslan Çene is a research assistant in the Department of Environmental Engineering at Marmara University. She received her Bachelor's degree in Environmental Engineering from Istanbul University in 2012 and her Master's degree in Environmental Engineering from Marmara University in 2016. During 2019-2020, she was a visiting researcher at the Department of Environmental Engineering at Duke University under the Council of Higher Education (YÖK) International Research Fellowship Program for Research Assistants (YÖK-YUDAB). Her current research interests include membrane processes, ion exchange, and adsorption.

### Education Information

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

Doctorate, Micro / Nano Adsorbent Assisted Membrane Filtration for the Removal of Organic Matter, Marmara University, Faculty Of Engineering, Environmental Engineering, 2024

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, Faculty of Engineering, Civil and Environmental Engineering, 2021 - 2022  
Researcher, Duke University, Faculty of Engineering, Civil and Environmental Engineering, 2019 - 2020

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

- I. **Investigating the use of CaCO<sub>3</sub> particles synthesized in the Ca(OH)<sub>2</sub>-CO<sub>2</sub>-H<sub>2</sub>O system for organic matter removal: adsorption efficiency and recyclability**  
ARSLAN ÇENE G., SOYER E., Wiesner M. R.  
Environmental Technology (United Kingdom), 2024 (SCI-Expanded)

## 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 Çene G., Parim C., Çene E.  
in: Current Debates on Natural and Engineering Sciences 9, Hikmet Y. Çoğun, İshak Parlar, Hasan Üzmuş, Editor, Bilgin Kültür Sanat Yayınları, Ankara, pp.145-159, 2023

## Refereed Congress / Symposium Publications in Proceedings

- I. **Examining Domestic Waste Separation Behaviors in Istanbul by Using Correspondence Analysis**  
Arslan Çene G., Güneş M. Ş., Parim C., Çene E.  
5th International Conference on Recycling and Reuse (R&R 2024), İstanbul, Turkey, 5 - 06 July 2024
- II. **Efficient Utilization and Reuse of CaCO<sub>3</sub> Particles for Organic Matter Removal**  
Arslan Çene G., Soyer E.  
5th International Conference on Recycling and Reuse (R&R2024), İstanbul, Turkey, 5 - 06 July 2024
- III. **Enhanced Adsorption of Organic Matter on Powdered Activated Carbon with CaCO<sub>3</sub> Particles**  
Arslan Çene G., Soyer E.  
IWA 1st European Young Water Professionals Conference – Denmark 2024, Kobenhavn, Denmark, 16 - 19 June 2024
- IV. **Comparison of K - Means and Fuzzy C - Means Clustering Algorithms on Water Quality Parameter: Case Study of Ergene Basin of 17 Stations**  
Arslan Çene G., Parim C., Çene E.  
3.Uluslararası Mühendislik ve Doğa Bilimleri Çalışmaları Kongresi' (ICENSS-2023), Ankara, Turkey, 24 - 25 May 2023, pp.1-2
- V. **Preparation of Calcium Carbonate Nanoparticles: Adsorption and Desorption Behaviour of Organic Matter**  
Zolfagharian P., ARSLAN G., YİĞİT HUNCE S., SOYER E.  
3rd EWaS International Conference on "Insights on Water-Energy-Food-Nexus", Greece, 27 - 30 June 2018, vol.2, pp.655
- VI. **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., Yiğit Hünce S.  
10th Eastern European Young Water Professionals Conference, Zagreb, Croatia, 7 - 12 May 2018, pp.187-188
- VII. **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

VIII. **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**

Soyer E., Arslan Çene G., Bayram H., TUBITAK Project, İçmesuyu Arıtma Tesisleri Yukarı Akışlı Çamur Battaniyeli Durultucularda Organik Madde Giderimi Mekanizması Optimizasyonu, Dizayn Önerileri ve İşletiminde Karar Verme Mekanizması Geliştirilmesi, 2024 - 2026

Soyer E., Arslan Çene G., Project Supported by Higher Education Institutions, Micro/Nano Adsorbent Assisted Membrane Filtration for the Removal of Organic Matter, 2022 - 2024

Soyer E., Arslan Çene G., Project Supported by Higher Education Institutions, Tabakalaşmış Akışkan Yataklı Reaktörlerde Amonyum İyonu Giderimi Akışkanlaşma Hızı ve Tabaka Sayısı Etkisi, 2014 - 2016

Soyer E., TUBITAK Project, Su ve Atıksu Arıtımında Kullanılmak Üzere Nano Kompozit Membran Üretimi ve Nanoparçacık Geri Salımının Araştırılması, 2012 - 2015

## **Metrics**

Publication: 10