

## Asst. Prof. GÜL GÜLENAY HACIOSMANOĞLU

### Personal Information

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### International Researcher IDs

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### Education

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Environmental Engineering (Eng), Turkey 2013 - 2019

Undergraduate, Marmara University, Faculty of Engineering, Environmental Engineering, Turkey 2012 - 2017

Postgraduate, Bogazici University, Institute Of Environmental Sciences, Department Of Environmental Technology, Turkey 2005 - 2010

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Food Engineering, Turkey 1999 - 2004

### Biography

Gül Gülenay Haciosmanoğlu is a Assist. Prof. in Environmental Engineering Department at Marmara University. She received her first B.S. degree in Food Engineering from Middle East Technical University and her second B.S. degree in Environmental Engineering from Marmara University. She completed her M.S. degree in Environmental Technology at Bogaziçi University and her Ph.D. degree in Environmental Engineering at Marmara University. Her research interests focus on environmental organic chemistry, analysis and treatment of emerging contaminants (including endocrine disruptors and pharmaceutically active compounds), adsorption and advanced oxidation processes. In the academic year 2021-2022, she studied as a visiting post-doctoral researcher at the University of Seville, Spain, with the scholarship from TUBITAK.

### Foreign Languages

French, B2 Upper Intermediate

English, C2 Mastery

### Dissertations

Doctorate, Adsorption of Endocrine Disrupting Compounds by Magnetic Nanoparticles, Marmara Üniversitesi, Faculty of Engineering, Environmental Engineering, 2019

Postgraduate, Pretreatment of Wastewater Sludge by Pulsed Electric Field Application at Different pH Conditions, Boğaziçi Üniversitesi, Çevre Bilimleri Enstitüsü, Çevre Teknolojisi Anabilim Dalı, 2010

## Research Areas

Environmental Engineering, Environmental Technology, Waste Water Collection and Treatment, Water Supply and Treatment

## Academic Positions

Research Assistant PhD, Marmara University, Faculty of Engineering, Environmental Engineering, 2012 - Continues  
Research Assistant, Necmettin Erbakan University, Faculty Of Engineering-Architecture, Department Of Environmental Engineering, 2011 - 2012

## Journal articles indexed in SCI, SSCI, and AHCI

- I. **Olive industry liquid waste from trash to metal adsorbent for wastewater purification**  
Ishraydeh I., Hamed O., Deghles A., Jodeh S., Azzaoui K., Hasan A., Assali M., Jaseer A., Mansour W., HACIOSMANOĞLU G. G., et al.  
BMC Chemistry, vol.18, no.1, 2024 (SCI-Expanded)
- II. **Cellulose based polyurethane with amino acid functionality: Design, synthesis, computational study and application in wastewater purification**  
Rub H. A., Deghles A., Hamed O., Azzaoui K., Hammouti B., Taleb M., Berisha A., Dagdag O., Mansour W., Haciosmanoğlu G. G., et al.  
International Journal of Biological Macromolecules, vol.239, 2023 (SCI-Expanded)
- III. **Olive Industry Solid Waste-Based Biosorbent: Synthesis and Application in Wastewater Purification**  
Salahat A., Hamed O., Deghles A., Azzaoui K., Qrareya H., Assali M., Mansour W., Jodeh S., Haciosmanoğlu G. G., Can Z. S., et al.  
Polymers, vol.15, no.4, pp.797-816, 2023 (SCI-Expanded)
- IV. **Adsorption of Fluoroquinolone Antibiotics from Water and Wastewater by Colemanite**  
HACIOSMANOĞLU G. G., Arenas M., Mejías C., Martín J., Santos J. L., Aparicio I., Alonso E.  
International Journal of Environmental Research and Public Health, vol.20, no.3, 2023 (SCI-Expanded)
- V. **Antibiotic adsorption by natural and modified clay minerals as designer adsorbents for wastewater treatment: A comprehensive review**  
Haciosmanoglu G. G., Mejias C., Martin J., Santos J. L., Aparicio I., Alonso E.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.317, 2022 (SCI-Expanded)
- VI. **Efficient removal of methyl orange from aqueous solutions using ulexite**  
HACIOSMANOĞLU G. G., GENÇ S., CAN Z. S.  
ENVIRONMENTAL TECHNOLOGY & INNOVATION, vol.22, 2021 (SCI-Expanded)
- VII. **Adsorptive removal of bisphenol A from aqueous solutions using phosphonated levan**  
Haciosmanoğlu G. G., Doğruel T., Genç S., Oner E. T., Can Z. S.  
JOURNAL OF HAZARDOUS MATERIALS, vol.374, pp.43-49, 2019 (SCI-Expanded)
- VIII. **Halomonas smyrnensis as a cell factory for co-production of PHB and levan**  
Tohme S., Haciosmanoğlu G. G., Eroğlu M. S., Kasavi C., Genç S., Can Z. S., Oner E. T.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.118, pp.1238-1246, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Copper Removal From Ammoniacal Spent Etchant by Using Magnetic Nanoparticles**  
Yassin O. A., Can Z. S., Genç S., Toksoy Öner E., Haciosmanoğlu G. G.  
Environmental Research and Technology, vol.1, pp.38-42, 2018 (Peer-Reviewed Journal)

## Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Pharmaceuticals removal by adsorption with functionalized cellulose based foam**  
Kalule S., Can Z. S., Haciosmanoğlu G. G., Şam S., Deghles A., Hamed O. A.  
İTÜ 2nd INTERNATIONAL GRADUATE RESEARCH SYMPOSIUM IGRS'23, İstanbul, Turkey, 16 - 18 May 2023,  
(Unpublished)
- II. **EVALUATION OF HEAVY METAL SORPTION CAPACITIES OF CELLULOSE BASED ADSORBENTS WITH IONIC FUNCTIONAL GROUPS – AQUEOUS COBALT (II) ION REMOVAL –**  
Hashi A. A., Erdoğan B., Kuzucu Y., Şam S., Haciosmanoğlu G. G., Deghles A., Hamed O. A., Can Z. S.  
IWA DIPCON 2022, İstanbul, Turkey, 24 - 28 October 2022, no.92, pp.217-223, (Full Text)
- III. **Study on Adsorption Performance of MIL-101(Cr) for Ibuprofen Uptake from Aqueous Media**  
Faisal M., Engel H. B., Haciosmanoğlu G. G., Şam S., Kiran Yıldırım B., Genç S., Can Z. S.  
1 st International Conference on Advances in Engineering, Architecture, Science and Technology, Turkey, 15 - 17  
December 2021, (Summary Text)
- IV. **Synthesis and Characterization of Magnetic Metal Organic Framework (MOF) for Methyl Orange Removal from Aqueous Solutions**  
KARAKAYA B., KIRAN YILDIRIM B., CAN Z. S., HACIOSMANOĞLU G. G., ŞAM S., GENÇ S.  
1 st International Conference on Advances in Engineering, Architecture, Science and Technology, Turkey, 15 - 17  
December 2021, (Summary Text)
- V. **Adsorption of EE2 and BPA by Phosphonated Levan: A Comparative Study**  
Haciosmanoğlu G. G., Doğruel T., Genç S., Toksoy Öner E., Can Z. S.  
11th Micropol & Ecohazard Conference 2019, Seoul, South Korea, 20 - 24 October 2019, vol.1, no.1, pp.233-234,  
(Summary Text)
- VI. **Dual Production of Levan and PHB by Halomonas smyrnensis**  
Tohme S., Haciosmanoğlu G. G., Eroğlu M. S., Kasavi C., Genç S., Can Z. S., Toksoy Öner E.  
12th International Congress of Extremophiles, Naples, Italy, 16 - 20 September 2018, pp.164, (Summary Text)
- VII. **Removal of Nonylphenol and Octylphenol from Aqueous Solutions by a Novel Nano-Composite (ZVI/Fullerene)**  
Haciosmanoğlu G. G., Yücesoy Özkan Z., Can Z. S., Genç S., Erdim E., Soyer E., Pehlivanoğlu Mantaş E.  
3rd Ewas International Conference, Levkas, Greece, 27 - 30 June 2018, vol.2, pp.654, (Full Text)
- VIII. **Use of Chitosan Coated Magnetic Nanoparticles as an Adsorbent for Bisphenol A**  
Haciosmanoğlu G. G., Genç S., Can Z. S.  
NANOTR-13, 13th Nanoscience and Nanotechnology Conference, Antalya, Turkey, 22 - 25 October 2017, (Summary  
Text)
- IX. **Removal of Industrial Xenoestrogens by using Zero Valent Iron Nanoparticles**  
Haciosmanoğlu G. G., Yücesoy Özkan Z., Soyer E., Genç S., Can Z. S., Erdim E.  
International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 8 - 10 May 2017, (Summary  
Text)
- X. **Levan Sulfate as a Heparin mimetic Bioactive Glycan for TissueEngineering Applications**  
Erginer M., Coşkun B., Rende D., Baysal N., Ozışık R., Morova T., Bucak S., HACIOSMANOĞLU G. G., EROĞLU M. S.,  
AĞIRBAŞLI M. A., et al.  
NICE 2016, 16 - 19 October 2016, (Summary Text)
- XI. **Copper Removal from Ammoniacal Spent Etchant Using Magnetic Nanoparticles**  
YASSİN O. A., HACIOSMANOĞLU G. G., GENÇ S., TOKSOY ÖNER E., CAN Z. S.  
EurAsia Waste Management Symposium, 2 - 04 May 2016, (Full Text)

## Funded Projects

Haciosmanoğlu G. G., Can Z. S., Semerci N., Genç S., Kiran Yıldırım B., TUBITAK Project, Developing an adsorption system using boron minerals for the removal of emerging pollutants, 2023 - 2025

Semerci N., Çallı B., Can Z. S., Haciosmanoğlu G. G., TUBITAK Project, Yenilikçi, enerji-pozitif atıksu arıtma prosesinin makro ve mikro organik kirletici giderim performansı, 2021 - 2024

Can Z. S., Haciosmanoğlu G. G., Other International Funding Programs, Cellulose Based Foam with Ionic Functionalities: Synthesis and Application in Wastewater Purification, 2021 - 2023

Haciosmanoğlu G. G., Can Z. S., Genç S., Toksoy Öner E., Project Supported by Higher Education Institutions, Farklı Biyosorbentler ile Sucul Ortamlardan Bisfenol A Giderimi, 2018 - 2020

Haciosmanoğlu G. G., Can Z. S., Project Supported by Higher Education Institutions, Manyetik Nanoparçacıklar Kullanılarak Endokrin Bozucu Maddelerin Adsorpsiyon Yoluyla Giderilmesi, 2017 - 2019

Haciosmanoğlu G. G., Can Z. S., Genç S., Toksoy Öner E., Project Supported by Higher Education Institutions, Levan Biyopolimeri ile Kaplanmış Manyetik Nanoparçacık Sentezlenmesi ve Cu II Adsorpsiyon Özelliklerinin İncelenmesi, 2013 - 2017

Haciosmanoğlu G. G., Can Z. S., Bakoğlu R., Project Supported by Higher Education Institutions, Üniversitelerin Sürdürülebilir Geleceğinin İnşası için PESTLE Analizi, 2015 - 2016

Can Z. S., Erdim E., Yücesoy Özkan Z., Pehlivanoğlu Mantaş E., Soyer E., Genç S., TUBITAK Project, Removal of nonylphenol and octylphenol by zero valent iron nanoparticles (nZVI) and nZVI/fullerene nanocomposite, 2014 - 2016

## Peer Reviews in Scientific Publications

BIOCHAR, Journal Indexed in SCI-E, August 2023

CHEMOSPHERE CHEMISTRY, BIOLOGY AND TOXICOLOGY AS RELATED TO ENVIRONMENTAL PROBLEMS, Journal Indexed in SCI-E, February 2023

CHEMOSPHERE CHEMISTRY, BIOLOGY AND TOXICOLOGY AS RELATED TO ENVIRONMENTAL PROBLEMS, Journal Indexed in SCI-E, November 2022

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, Journal Indexed in SCI-E, May 2020

## Metrics

Publication: 22

Citation (WoS): 57

Citation (Scopus): 192

H-Index (WoS): 5

H-Index (Scopus): 5

## Scholarships

TÜBİTAK 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TUBITAK, 2021 - 2022