

Res. Asst. PhD AYŞE GÜL

Personal Information

Email: ayse.gul@agu.edu.tr

Web: <https://avesis.agu.edu.tr/ayse.gul>

International Researcher IDs

ORCID: 0000-0002-2305-6408

Yoksis Researcher ID: 57538

Education Information

Post Doctorate, Hacettepe University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, Turkey 2023 - 2024

Doctorate, Eskişehir Technical University, Faculty Of Engineering, Department Of Environmental Engineering, Turkey 2014 - 2020

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Environmental Engineering, Turkey 2011 - 2014

Research Areas

Environmental Engineering, Civil Engineering

Academic Titles / Tasks

Research Assistant PhD, Abdullah Gul University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2019 - Continues

Courses

EXPLORING PROFESSION , Undergraduate, 2022 - 2023

AGU WAYS, Undergraduate, 2022 - 2023

Water and Wastewater Treatment Engineering, Undergraduate, 2022 - 2023, 2021 - 2022

Clean Water and Sanitation, Undergraduate, 2021 - 2022

Sustainability, Undergraduate, 2021 - 2022

Responsible Consumption and Production, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Carbon dioxide absorption using monoethanolamine, piperazine and n-metil-2-pirolidon solvents under counter current regime in packed column reactor**
Gül A., Barış M., Tezcan Un U.
International Journal of Greenhouse Gas Control, vol.131, pp.1-8, 2024 (SCI-Expanded)
- II. **The different impacts of g-C₃N₄ nanosheets on PVDF and PSF ultrafiltration membranes for Remazol black 5 dye rejection**
ŞENOL ARSLAN D., GÜL A., Dizge N., Ocakoglu K., UZAL N.
Journal of Applied Polymer Science, vol.140, no.41, 2023 (SCI-Expanded)

- III. **Ni-Zn Metal-organic framework based membranes for rejection of Pb(II) ions**
Şenol Arslan D., Gül A., Uzal N., Yavuz E.
INORGANIC CHEMISTRY COMMUNICATION, vol.145, no.7, pp.1-23, 2022 (SCI-Expanded)

Articles Published in Other Journals

- I. **Carbon Dioxide Absorption Using Different Solvents (MEA, NaOH, KOH and Mg(OH)₂) in Bubble Column Reactor**
Gül A., Tezcan Un U.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.12, no.2, pp.418-427, 2023 (Peer-Reviewed Journal)
- II. **Optimization of carbon dioxide absorption in a continuous bubble column reactor using response surface methodology**
Gül A., Derakhshandeh M., Un U. T.
ENVIRONMENTAL QUALITY MANAGEMENT, vol.33, no.1, pp.79-93, 2023 (Scopus)
- III. **Fabrication of Gd₂O₃/PSF Membranes via Aqueous Phase Inversion Method**
Gül A., Şenol Arslan D., Uzal N.
Hittite Journal of Science and Engineering, vol.9, no.3, pp.177-181, 2022 (Peer-Reviewed Journal)
- IV. **Effect of Temperature and Gas Flow Rate on CO₂ Capture**
Gül A., Tezcan Un U.
European Journal of Sustainable Development Research, vol.6, no.2, pp.1-5, 2022 (Peer-Reviewed Journal)
- V. **REMOVAL OF ANTIBIOTIC WASTES BY ADSORPTION METHOD**
GÜL A., TEZCAN ÜN Ü.
International Journal of Advances in Science Engineering and Technology, vol.6, no.4, 2018 (Peer-Reviewed Journal)
- VI. **OPTIMIZATION OF ELECTROCOAGULATION PARAMETERS FOR PRE-TREATMENT OF INDUSTRIAL METAL CUTTING WASTEWATER**
TEZCAN ÜN Ü., GÜL A., ÖCAL S. E.
Canadian International Journal of Science and Technology, pp.120-127, 2017 (Peer-Reviewed Journal)
- VII. **REMOVAL OF PHENOL BY ADSORPTION**
TEZCAN ÜN Ü., GÜL A.
International Journal of Advances in Science Engineering and Technology, vol.5, no.2, pp.38-40, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **AN OVERVIEW OF PACKAGING WASTE COLLECTION AND SEPARATION PROCESS FOR BODRUM – TURKEY CASE STUDY**
Gül A., Canıgüroğlu H.
7. Ulusal Çevre Kongresi, Ankara, Turkey, 16 - 18 December 2022, pp.55-61
- II. **REMOVAL OF PB (II) ION FROM WASTEWATER BY USING NI-ZN METAL-ORGANIC FRAMEWORK EMBEDDED POLYMERIC MEMBRANES**
Şenol Arslan D., Gül A., Uzal N.
BİLTEK-VI 6. INTERNATIONAL CONGRESS ON CURRENT DEVELOPMENTS IN SCIENCE AND TECHNOLOGY , Malatya, Turkey, 16 September - 18 October 2022, pp.512-519
- III. **THE INFLUENCE OF THE TMC CONCENTRATION ON THE PERFORMANCE OF PSF/PEI/ Gd₂O₃ MEMBRANE FOR DYE REJECTION**
Gül A., Şenol Arslan D., Uzal N.
BİLTEK-VI 6. INTERNATIONAL CONGRESS ON CURRENT DEVELOPMENTS IN SCIENCE AND TECHNOLOGY , Malatya, Turkey, 16 - 18 September 2022, pp.503-510

- IV. **Recovery of Caustic from Mercerization Process Wastewaters using Membrane Processes**
Gül A., Uzal N., Özcan Ö., Şahinkaya E.
6th MEMTEK International Symposium on Membrane Technologies and Applications, İstanbul, Turkey, 18 - 20 December 2019
- V. **EFFECT OF TEMPERATURE AND GAS FLOW RATE ON CO₂ CAPTURE**
GÜL A., TEZCAN ÜN Ü.
International Conference on Energy, Environment and Storage of Energy, 19 - 21 November 2020
- VI. **Removal of Antibiotic Wastes by Adsorption Method**
TEZCAN ÜN Ü., ÖCAL S. E., GÜL A.
International Conference on Environment and Natural Science, 21 - 22 August 2018
- VII. **Comparasion Of Performance Of CO₂ Absorption Using Amines: A Review**
GÜL A., TEZCAN ÜN Ü.
International Research Conference on Civil, Architectural and Environmental Engineering (IRCCAEE-17), 17-18 May 2017, Istanbul, Turkey, 17 - 18 May 2017
- VIII. **Removal of Phenol By Adsorption**
TEZCAN ÜN Ü., GÜL A.
International Conference on Environment and Natural Science, 22 - 23 March 2017
- IX. **Single Stage Electrocoagulation of Industrial Cutting Oil Wastewater Using Iron Plate Electrodes**
TEZCAN ÜN Ü., GÜL A.
Proceedings of Academics World 52nd International Conference, Los-Angeles, Chile, 21 - 22 November 2016, pp.133-136
- X. **Biogas Product By Vegetable Fruit – Waste: Case Study, Ankara Turkey**
GÜL A., AKIN B.
International Environmental Science Symposium Of Van (IESSV), Van, Turkey, 4 - 07 June 2014

Supported Projects

Gül A., Tezcan Ün Ü., Şimşek Uygun B., Project Supported by Higher Education Institutions, ELEKTRO-FENTON YÖNTEMİ İLE ATIKSULARDAN PESTİSİT GİDERİMİ, 2022 - 2023

Gül A., Tezcan Ün Ü., Project Supported by Higher Education Institutions, Baca Gazından Karbondioksitin Sorpsiyon Yöntemiyle Giderilmesi, 2017 - 2019

Gül A., Tezcan Ün Ü., Ateş F., Onay Ö., Project Supported by Higher Education Institutions, TİCARİ AKTİF KARBON KULLANILARAK TETRASİKLİN GİDERİMİ, 2017 - 2018

Gül A., Tezcan Ün Ü., Project Supported by Higher Education Institutions, Metal İşleme Atıksuyunun Elektrokimyasal Arıtımı, 2015 - 2016

Activities in Scientific Journals

INTERNATIONAL JOURNAL OF SUSTAINABLE DEVELOPMENT RESEARCH, Editor, 2023 - Continues

Metrics

Publication: 20
Citation (WoS): 5
Citation (Scopus): 2
H-Index (Scopus): 1