

Asst. Prof. GÜLGÜN AYLAZ

Personal Information

Email: gulgun@cumhuriyet.edu.tr

Web: <https://avesis.cumhuriyet.edu.tr/4164>

International Researcher IDs

ORCID: 0000-0003-0900-035X

Publons / Web Of Science ResearcherID: CET-8398-2022

Yoksis Researcher ID: 34260

Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp A.B.D., Turkey 2017 - 2022

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp A.B.D., Turkey 2014 - 2016

Undergraduate, Ataturk University, Ziraat Fakültesi, Gıda Mühendisliği, Turkey 2007 - 2011

Undergraduate, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2006 - 2010

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Endokrin Bozucu Hormonlara Özgü Gravimetrik Nanosensörün Hazırlanması ve Moleküler Modellenmesi, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp A.B.D., 2022

Postgraduate, LDI-MS ANALİZLERİ İÇİN ETKİN VE SEÇİCİ YENİ HEDEF YÜZEYLERİN GELİŞTİRİLMESİ, Hacettepe University, Fen Bilimleri Enstitüsü, 2016

Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği, 2023 - Continues

Research Assistant PhD, Sivas Cumhuriyet University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği, 2014 - 2023

Research Assistant, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp A.B.D., 2015 - 2022

Courses

Biyomedikal Uygulamalarda Nanoteknoloji, Postgraduate, 2023 - 2024

Doğrusal Cebir, Undergraduate, 2023 - 2024

Mühendisler İçin Sayısal Yöntemler, Undergraduate, 2022 - 2023

Nanoteknolojik Spor Ekipmanlarının Üretimi, Undergraduate, 2022 - 2023

Diferansiyel Denklemler, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Development of a molecularly imprinted polymer on silanized graphene oxide for the detection of 17-estradiol in wastewater**
Mughal Z. u. N., AYLAZ G., Shaikh H., Memon S., ANDAÇ A. M.
Water Environment Research, vol.96, no.3, 2024 (SCI-Expanded)
- II. **Molecularly Designed Ion-Imprinted Nanoparticles for Real-Time Sensing of Cu(II) Ions Using Quartz Crystal Microbalance**
Aydogan N., Aylaz G., Bakhshpour M., Tugsuz T., Andaç A. M.
BIOMIMETICS (BASEL), vol.7, no.191, pp.1-17, 2022 (SCI-Expanded)
- III. **Molecularly imprinted composite discs for transferrin recognition**
AYLAZ G., Zenger O., Baydemir Pesint G., Andac M.
SEPARATION SCIENCE AND TECHNOLOGY, vol.57, no.9, pp.1359-1375, 2022 (SCI-Expanded)
- IV. **Affinity Recognition Based Gravimetric Nanosensor for Equilin Detection**
AYLAZ G., Andac M.
CHEMOSENSORS, vol.10, no.5, 2022 (SCI-Expanded)
- V. **Recognition of human hemoglobin with macromolecularly imprinted polymeric nanoparticles using non-covalent interactions**
AYLAZ G., Andac M., DENİZLİ A., DUMAN M.
JOURNAL OF MOLECULAR RECOGNITION, vol.34, no.12, 2021 (SCI-Expanded)
- VI. **Recent developments on magnetic molecular imprinted polymers (MMIPs) for sensing, capturing, and monitoring pharmaceutical and agricultural pollutants**
AYLAZ G., Kuhn J., Lau E. C. H. T., Yeung C., Roy V. A. L., DUMAN M., Yiu H. H. P.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.96, no.5, pp.1151-1160, 2021 (SCI-Expanded)
- VII. **Study on Cost-Efficient Carbon Aerogel to Remove Antibiotics from Water Resources**
AYLAZ G., Okan M., DUMAN M., AYDIN H. M.
ACS OMEGA, vol.5, no.27, pp.16635-16644, 2020 (SCI-Expanded)
- VIII. **Selective binding of antibiotics using magnetic molecular imprint polymer (MMIP) networks prepared from vinyl-functionalized magnetic nanoparticles**
Kuhn J., AYLAZ G., Sari E., Marco M., Yiu H. H. P., DUMAN M.
JOURNAL OF HAZARDOUS MATERIALS, vol.387, 2020 (SCI-Expanded)

Articles Published in Other Journals

- I. **Current publication activity on nanoplastics & microplastics: a bibliometric analysis**
Aylaz G., Konar N. M.
Sustainable Water Resources Management, vol.10, no.95, pp.1-12, 2024 (Peer-Reviewed Journal)
- II. **Investigation of Interactions Between Tetracycline Antibiotics and Bromelain Enzyme Using Docking Tools**
Aylaz G.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.4, pp.2986-2996, 2023 (Peer-Reviewed Journal)
- III. **Hypericin-Loaded Chitosan Nanoparticles for Enhanced Photodynamic Therapy in A549 Lung Cancer Cells**
Taşkonak B., Aylaz G., Andaç A. M., Güven E., Perçin Demirçelik I., Kılıç Süloğlu A.
BIONANOSCIENCE, vol.1, no.1, pp.1-13, 2023 (ESCI)
- IV. **Nanoplastiklerin Toksik Etkisi**
Mughal Z. u. N., AYLAZ G., ANDAÇ A. M.
Artıbilim: Adana Alparslan Türkeş Bilim ve Teknoloji Üniversitesi Fen Bilimleri Dergisi, 2022 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Development of Gravimetric Nanosensor for Equilin Detection**
Aylaz G., Andaç A. M.
4th International Environmental Chemistry Congress (EnviroChem), Antalya, Turkey, 30 October - 02 November 2022, pp.1
- II. **Preparation and Characterization of Hypericin-Loaded Chitosan Nanoparticles**
Taşkonak B., Aylaz G., Andaç M., Güven E., Ozkahraman B., Perçin I., Kılıç Süloğlu A.
9 th International Conference on Materials Science and Nanotechnology for Next Generation, Ankara, Turkey, 22 - 24 September 2022, pp.180
- III. **Investigation of Enhanced Uptake of Hypericin with Chitosan Nanoparticles in Lung Cancer**
Taşkonak B., Aylaz G., Andaç M., Güven E., Özkahraman B., Perçin I., Sanin S., Kılıç Süloğlu A.
2nd International Multidisciplinary Cancer Research Congress , Giresun, Turkey, 21 - 24 July 2022, pp.33-34
- IV. **Molecular Modeling of Endocrine Disrupting Chemicals and Amino Acids**
AYLAZ G., ANDAÇ A. M.
3rd EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, Turkey, 04 November 2021, pp.13
- V. **Detection of antibiotics using molecularly imprinted magnetic nanoparticles**
AYLAZ G., Kuhn J., Yiu H., DUMAN M.
6th Nano Today Conference, 16 - 20 June 2019
- VI. **Detection of Erythromycin Using Magnetic Core-Shell Nanoparticles**
Aylaz G., Çelikbiçak Ö., Duman M.
20. Annual Linz Winter Workshop, Linz, Austria, 05 February 2018, pp.1
- VII. **Molecularly Imprinted Polymeric Nanoparticle Modified Film Based MALDI Sample Probe for Detection of Ciprofloxacin**
AYLAZ G., ÇELİKBIÇAK Ö., DUMAN M.
XIX Annual Linz Winter Workshop, Linz, Austria, 3 - 06 February 2017
- VIII. **A Novel Fiber Based MALDI Probe for Selective Detection of Ciprofloxacin**
AYLAZ G., TEVLEK A., ÇELİKBIÇAK Ö., DUMAN M.
3rd International Congress on Biosensors, Ankara, Turkey, 5 - 07 October 2016
- IX. **Farklı Ürolojik Kanser Tiplerinin İdrar Örneğinden Eş Zamanlı Kantitatif Tayini için Sentetik Belirteç Tabanlı Ped Sisteminin Geliştirilmesi**
AYLAZ G., OKAN M., SÜLEK S., SARİ E.
1.Karadeniz Üroloji Sempozyumu, 3 - 04 June 2016
- X. **Preparation of Molecularly Imprinted Nanoparticle for the Selective Determination of Hemoglobin with UV Vis Spectrophotometer**
AYLAZ G., ÇİÇEK Ç., ANDAÇ ÖZDİL A. M., DUMAN M.
26th Anniversary World Congress on Biosensors, Gothenburg, Sweden, 24 - 27 May 2016

Supported Projects

Aylaz G., Andaç A. M., TUBITAK Project, SARS-CoV-2 Mutant Pseudo-Virüslerin Yönlendirilmiş Plastik Viral Reseptörlerle Kütle Duyarlı Sensör Sisteminde Tespit Edilmesi, 2022 - 2024

Aylaz G., Kılıç Süloğlu A., Güven E., Andaç A. M., Project Supported by Other Official Institutions, Hiperisin Yüklü Kitosan Nanopartiküllerin A549 Akciğer Kanseri Hücrelerinde Etkilerinin Araştırılması, 2019 - 2021

Metrics

Publication: 22

Citation (WoS): 137

Citation (Scopus): 110

H-Index (WoS): 6

H-Index (Scopus): 6