

Res. Asst. BURCU ÖKMEN ALTAŞ

Personal Information

Office Phone: [+90 312 297 6071](tel:+903122976071)

Email: burcu.okmen@hacettepe.edu.tr

Other Email: okmenburcu@gmail.com

Web: <https://avesis.hacettepe.edu.tr/burcu.okmen>



International Researcher IDs

ORCID: 0000-0003-0664-2592

Yoksis Researcher ID: 345756

Education Information

Doctorate, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey

2022 - Continues

Postgraduate, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü,
Turkey 2019 - 2022

Undergraduate, Ankara University, Faculty Of Engineering, Department Of Chemistry
Engineering, Turkey 2013 - 2018

Foreign Languages

French, A1 Beginner

English, B2 Upper Intermediate

Dissertations

Postgraduate, BEYİN TÜMÖRÜ TEDAVİSİNDE ANTİKANSER İLAÇLARININ NAZAL YOLLA AKTARIMI İÇİN LİPİT TEMELLİ TAŞIYICILARIN GELİŞTİRİLMESİ, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2022

Research Areas

Chemical Engineering and Technology, Biotechnology, Chemical Technologies, Process and Reactor Design, Basic Operations and Thermodynamics, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Tadpole-Like Anisotropic Polymer/Lipid Janus Nanoparticles for Nose-to-Brain Drug Delivery:

- Importance of Geometry, Elasticity on Mucus-Penetration Ability.**
 ÖKMEN ALTAŞ B., KALAYCIOĞLU G. D., Lifshiz-Simon S., Talmon Y., AYDOĞAN N.
 Molecular pharmaceutics, vol.21, no.2, pp.633-650, 2024 (SCI-Expanded)
- II. Multi-Stimuli-Responsive Tadpole-like Polymer/Lipid Janus Microrobots for Advanced Smart Material Applications**
 Ökmen Altaş B., Goktas C., Topcu G., Aydogan N.
 ACS APPLIED MATERIALS & INTERFACES, vol.16, pp.15533-15547, 2024 (SCI-Expanded)
- III. Biophysical interaction of gold nanoparticles with model biological membranes: Investigation of the effect of geometry on cellular uptake and photothermal performance**
 Kalaycioglu G. D., Ökmen Altaş B., Aydogan N.
 Colloids and Surfaces A: Physicochemical and Engineering Aspects, vol.676, 2023 (SCI-Expanded)
- IV. The effect of the gold nanoparticles and gold nano-clusters on the behavior of natural lung surfactant**
 Ozcan V. P., Ökmen Altaş B., Kalaycioglu G. D., Ergul E., Aydogan N.
 Journal of Molecular Liquids, vol.387, 2023 (SCI-Expanded)
- V. Interfacial properties and aggregates of novel redox-active surfactant to synthesize silver nanoparticles at the air/water interface**
 KALAYCIOĞLU G. D., Yuksel D., ÖKMEN B., AYDOĞAN N.
 Colloids and Surfaces A: Physicochemical and Engineering Aspects, vol.624, 2021 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. Kombine Tedavide Kullanılmak Üzere Polimer/Lipit Temelli Anizotropik Mikro/Nano Yapıların Geliştirilmesi**
 Ökmen Altaş B., Kalaycioglu G. D., Aydogan N.
 15. Ulusal Kimya Mühendisliği Kongresi (UKMK 2023) , Çanakkale, Turkey, 4 - 07 September 2023, pp.379-381
- II. Biyoyumlu ve Biyobozunur Janus Yapılı Hibrit Taşıyıcıların Tasarımı ve Karakterizasyonu**
 Ökmen Altaş B., Kolay F., Kalaycioğlu G. D., Aydoğan N.
 15. Ulusal Kimya Mühendisliği Kongresi (UKMK 2023) , Çanakkale, Turkey, 4 - 07 September 2023, pp.1001-1003
- III. Development of Polymer/Lipid Based Janus Structures for Combined Therapy Applications**
 Ökmen Altaş B., Kalaycioglu G. D., Aydogan N.
 17th International Nanoscience and Nanotechnology Conference (NANOTR-17) , İzmir, Turkey, 27 - 29 August 2023, pp.116
- IV. Layer-by-Layer Coated Custom-Made 2D Printed Contact Lenses as Personalized Dual-Drug Delivery Systems for the Treatment of Ocular Diseases**
 Ökmen Altaş B., Sürmelioğlu B., Aydoğan N., Kalaycioglu G. D.
 17th International Nanoscience and Nanotechnology Conference (NANOTR-17), İzmir, Turkey, 27 March - 29 August 2023, pp.239
- V. Anisotropic Polymer/Lipid Micro/Nano Structures for Simultaneous Encapsulation and Delivery of Hydrophilic/Hydrophobic Drug-like Molecules**
 Ökmen Altaş B., Kalaycioglu G. D., Aydogan N.
 26th International Biomedical Science and Technology Symposium (BIOMED 2022) , Ankara, Turkey, 25 - 27 November 2022, pp.38
- VI. Investigation of the Biophysical Interaction of Gold Nanoparticles of Different Geometries with Model Cell Membrane**
 Kalaycioglu G. D., Ökmen Altaş B., Aydoğan N.
 36th Conference of Colloids and Interface Science Society, Hania, Greece, 5 - 10 September 2022, pp.275
- VII. Interfacial Properties and Aggregates of Novel Redox-Active Surfactant at the Air/Water Interface**
 Kalaycioglu G. D., Yuksel D., Ökmen Altaş B., Aydogan N.
 16th Nanoscience and Nanotechnology Conference (NanoTR), Ankara, Turkey, 5 - 08 September 2022, pp.210

- VIII. **Investigation of the Biophysical Interaction of Gold Nanoparticles of Different Geometries with Model Cell Membranes**
Kalaycioglu G. D., Ökmen Altaş B., Aydoğan N.
16th Nanoscience and Nanotechnology Conference (NanoTR), Ankara, Turkey, 5 - 09 September 2022, pp.314
- IX. **Interfacial properties and Surface Aggregates of Redox-Active Surfactant**
Kalaycioglu G. D., Yüksel D., Ökmen Altaş B., Aydoğan N.
35th Conference of the European Colloid & Interface Society, Athens, Greece, 5 - 10 September 2021, pp.142
- X. **Hava/Su Arayüzünde Redoks-Aktif Nano/Mikro Yapıların Kendi Kendine Kümeleşerek Oluşturulması**
Kalaycioglu G. D., Yüksel D., Ökmen Altaş B., Aydoğan N.
15. Ulusal Kimya Mühendisliği Kongresi (UKMK), Konya, Turkey, 10 - 12 June 2021

Metrics

Publication: 15

Non Academic Experience

Botek Ar-Ge Kimya A.Ş.