

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

ScholarID: EI0Lg3cAAAAJ

ORCID: 0000-0003-0664-2592

Publons / Web Of Science ResearcherID: DYM-7811-2022

ScopusID: 58549109200

Yoksis Researcher ID: 345756

Education

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, Development of lipid based carriers for the nasal delivery of anticancer drugs in the treatment of brain tumor, 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 Positions

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

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Preparation and investigation of Janus structured micro/nano carriers: Release kinetics of multiple drugs**
Ökmen Altaş B., Kolay F., Kalaycioglu G. D., Aydoğan N.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.105, pp.106631, 2025 (SCI-Expanded)
- II. **Multi-Stimuli-Responsive Tadpole-like Polymer/Lipid Janus Microrobots for Advanced Smart Material Applications.**
Ökmen Altaş B., Goktas C., Topcu G., Aydoğan N.
ACS APPLIED MATERIALS & INTERFACES, vol.16, no.12, pp.15533-15547, 2024 (SCI-Expanded)
- III. **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)
- IV. **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., Aydoğan N.
Colloids and Surfaces A: Physicochemical and Engineering Aspects, vol.676, 2023 (SCI-Expanded)
- V. **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., Aydoğan N.
Journal of Molecular Liquids, vol.387, 2023 (SCI-Expanded)
- VI. **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)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **The Role of Geometry and Elasticity in Mucus-Penetrating Particles for Nose-to-Brain Drug Delivery**
Ökmen Altaş B., Kalaycioğlu G. D., Aydoğan N.
IX. Polymer Science and Technology Congress with International Participation, Ankara, Turkey, 16 - 18 September 2024, pp.1-2, (Summary Text)
- II. **Design and Development of Advanced Dual-Actuated Hybrid Micro Robot**
Göktaş C., Ökmen Altaş B., Topcu G., Aydoğan N.
IX. Polymer Science and Technology Congress with International Participation, Ankara, Turkey, 16 - 18 September 2024, pp.1-2, (Summary Text)
- III. **Polymeric Hybrid Micro-Structures Based on Superparamagnetic Nanoparticles for Biomedical and Environmental Applications**
Topcu G., Ökmen Altaş B., Göktaş C., Aydoğan N.
IX. Polymer Science and Technology Congress with International Participation, Ankara, Turkey, 16 - 18 September 2024, pp.1-2, (Summary Text)
- IV. **Investigation of Nanostructures as Synergistic Therapy Agents: Release Kinetics of Multiple Drugs**
Ökmen Altaş B., Kolay F., Kalaycioglu G. D., Aydoğan N.
IX. Polymer Science and Technology Congress with International Participation, Ankara, Turkey, 16 - 18 September 2024, pp.1-2, (Summary Text)
- V. **Antioxidant Activity and Hemocompatibility of Coenzyme Q10-Loaded Ultra-Small Lipid Nanoparticles**
Kalaycioglu G. D., Ökmen Altaş B., Aydoğan N.
38th Conference of the European Colloid & Interface Society, Kobenhavn, Denmark, 1 - 06 September 2024, (Unpublished)
- VI. **Kombine Tedavide Kullanılmak Üzere Polimer/Lipit Temelli Anizotropik Mikro/Nano Yapıların**

Geliştirilmesi

Ökmen Altaş B., Kalaycıoğlu G. D., Aydoğan N.

15. Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Turkey, 4 - 07 September 2023, pp.379-381, (Full Text)

VII. Biyouyumlu ve Biyobozunur Janus Yapılı Hibrit Taşıyıcıların Tasarımı ve Karakterizasyonu

Ökmen Altaş B., Kolay F., Kalaycıoğlu G. D., Aydoğan N.

15. Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Turkey, 4 - 07 September 2023, pp.1001-1003, (Full Text)

VIII. Development of Polymer/Lipid Based Janus Structures for Combined Therapy Applications

Ökmen Altaş B., Kalaycıoğlu G. D., Aydoğan N.

17th International Nanoscience and Nanotechnology Conference, İzmir, Turkey, 27 - 29 August 2023, pp.116, (Summary Text)

IX. 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., Sürmelioglu B., Aydoğan N., Kalaycıoğlu G. D.

17th International Nanoscience and Nanotechnology Conference, İzmir, Turkey, 27 March - 29 August 2023, pp.239, (Summary Text)

X. Anisotropic Polymer/Lipid Micro/Nano Structures for Simultaneous Encapsulation and Delivery of Hydrophilic/Hydrophobic Drug-like Molecules

Ökmen Altaş B., Kalaycıoğlu G. D., Aydoğan N.

26th International Biomedical Science and Technology Symposium, Ankara, Turkey, 25 - 27 November 2022, pp.38, (Summary Text)

XI. Investigation of the Biophysical Interaction of Gold Nanoparticles of Different Geometries with Model Cell Membrane

Kalaycıoğlu G. D., Ökmen Altaş B., Aydoğan N.

36th Conference of Colloids and Interface Science Society, Hania, Greece, 5 - 10 September 2022, pp.275, (Summary Text)

XII. Investigation of the Biophysical Interaction of Gold Nanoparticles of Different Geometries with Model Cell Membranes

Kalaycıoğlu G. D., Ökmen Altaş B., Aydoğan N.

16th Nanoscience and Nanotechnology Conference, Ankara, Turkey, 5 - 09 September 2022, pp.314, (Summary Text)

XIII. Interfacial Properties and Aggregates of Novel Redox-Active Surfactant at the Air/Water Interface

Kalaycıoğlu G. D., Yüksel D., Ökmen Altaş B., Aydoğan N.

16th Nanoscience and Nanotechnology Conference, Ankara, Turkey, 5 - 08 September 2022, pp.210, (Summary Text)

XIV. Interfacial properties and Surface Aggregates of Redox-Active Surfactant

Kalaycıoğlu 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, (Summary Text)

XV. Hava/Su Arayüzünde Redoks-Aktif Nano/Mikro Yapıların Kendi Kendine Kümeleşerek Oluşturulması

Kalaycıoğlu G. D., Yüksel D., Ökmen Altaş B., Aydoğan N.

15. Ulusal Kimya Mühendisliği Kongresi, Konya, Turkey, 10 - 12 June 2021, (Summary Text)

Funded Projects

Aydoğan N., Ökmen Altaş B., TUBITAK Project, Çoklu Uyaranlara Duyarlı Janus Mikrorobot Hazırlanması, 2024 - 2027

Metrics

Publication: 21

Citation (Scopus): 22

H-Index (Scopus): 3

Non Academic Experience

Botek Ar-Ge Kimya A.Ş., Araştırma ve Geliştirme Mühendisi