

## Res. Asst. BURCU ÖKMEN ALTAŞ

### Personal Information

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### International Researcher IDs

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

ScopusID: 58549109200

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, 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 Titles / Tasks

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

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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, no.12, pp.15533-15547, 2024 (SCI-Expanded)
- II. **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)
- 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., Kalaycioğlu G. D., Aydoğan N.  
15. Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Turkey, 4 - 07 September 2023, pp.379-381
- II. **Biyouyumlu ve Biyobozunur Janus Yapılı Hibrit Taşıyıcıların Tasarımı ve Karakterizasyonu**  
Ökmen Altaş B., Kolay F., Kalaycioğlu G. D., Aydoğan N.  
15. Ulusal Kimya Mühendisliği Kongresi , Çanakkale, Turkey, 4 - 07 September 2023, pp.1001-1003
- III. **Development of Polymer/Lipid Based Janus Structures for Combined Therapy Applications**  
Ökmen Altaş B., Kalaycioğlu G. D., Aydoğan N.  
17th International Nanoscience and Nanotechnology Conference, 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., Sürmelioglu B., Aydoğan N., Kalaycioğlu G. D.  
17th International Nanoscience and Nanotechnology Conference, 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., Kalaycioğlu G. D., Aydoğan N.  
26th International Biomedical Science and Technology Symposium, Ankara, Turkey, 25 - 27 November 2022, pp.38
- VI. **Investigation of the Biophysical Interaction of Gold Nanoparticles of Different Geometries with Model Cell Membrane**  
Kalaycioğlu 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**  
Kalaycioğlu G. D., Yüksel D., Ökmen Altaş B., Aydoğan N.  
16th Nanoscience and Nanotechnology Conference, Ankara, Turkey, 5 - 08 September 2022, pp.210
- VIII. **Investigation of the Biophysical Interaction of Gold Nanoparticles of Different Geometries with**

### **Model Cell Membranes**

Kalayciođlu G. D., Ökmen Altaş B., Aydođan N.

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

### **IX. Interfacial properties and Surface Aggregates of Redox-Active Surfactant**

Kalayciođlu G. D., Yüksel D., Ökmen Altaş B., Aydođan 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**

Kalayciođlu G. D., Yüksel D., Ökmen Altaş B., Aydođan N.

15. Ulusal Kimya Mühendisliđi Kongresi, Konya, Turkey, 10 - 12 June 2021

### **Metrics**

Publication: 15

### **Non Academic Experience**

Botek Ar-Ge Kimya A.Ş.