

Özlem ÖZBEK

Ph.D. Candidate – Research and Teaching Assistant
Thesis Supervisor: Prof. Kutlu ÜLGEN
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CONTACT DETAILS

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EDUCATION

2019 – Ph.D. in Chemical Engineering, Boğaziçi University
2016 – 2019 M.Sc. in Chemical Engineering, Boğaziçi University
2011 – 2016 B.Sc. in Chemical Engineering, Boğaziçi University (Honour Degree)

PROFESSIONAL EXPERIENCES

2018 – Research and Teaching Assistant, Boğaziçi University,
Department of Chemical Engineering,

RESEARCH INTERESTS

Nanotechnology in drug delivery
Functional nanomaterials and targeted drug delivery
Uptake of nanocarriers by yeast cell
Live cell imaging
Biotechnology

COURSES ASSISTED

ChE 201 Physicochemical Systems I
ChE 222 Introduction to Biosystems
ChE 232 Fluid Mechanics
ChE 203 Physicochemical Systems Laboratory
ChE 334 Mass Transfer Operations
ChE 353 Chemical & Biochemical Processes
ChE 383 Probability and Statistics in Chemical Engineering
ChE 302 Chemical Engineering Laboratory
ChE 401 Chemical Engineering & Biotechnology Laboratory
ChE 427 Bioreaction Engineering
ChE 441 Hydrogen Technologies
ChE 463 Bioprocess Design
ChE 488 Introduction to Nanoscience and Nanotechnology
ChE 622 Statistical Thermodynamics
ChE 637 Advanced Mass Transfer
ChE 579/700 Graduate Seminar

PUBLICATIONS

- Ozbek, O., O. Ulgen, K., & Ileri Ercan, N. (2021). The Toxicity of Polystyrene-Based Nanoparticles in *Saccharomyces cerevisiae* Is Associated with Nanoparticle Charge and Uptake Mechanism. *Chemical Research in Toxicology*.
<https://doi.org/10.1021/acs.chemrestox.0c00468>

CONFERENCES AND PRESENTATIONS

- O. Ozbek, N. Ileri Ercan, K. Ulgen, “*A study on the effects of polystyrene latex nanoparticles on Saccharomyces Cerevisiae*”, 23rd International Congress of Chemical and Process Engineering CHISA 2018, 25-29 August 2018, Prague/Czech Republic (Poster Presentation)
- O. Ozbek, N. Ileri Ercan, K. O. Ulgen, “*Synthesis of Liposome-Polymeric Nanoparticle Hybrid Systems for Therapeutic Applications*”, 19th International Conference on Systems Biology ICSB 2018, 28 October-1 November 2018, Lyon/France (Poster Presentation)