

CURRICULUM VITAE

Name and Surname: Osman Tayyar Arlı

Academic Title: Assistant Professor

Work Address:

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Foreign Languages Known (Score and Year): English, C1 Advanced, 2022

Certificates Received: ☐ TÜBİTAK 2237-B Proje Eğitimi Etkinliklerini Destekleme Programı Akademik Proje Yazma Eğitimi

Area of Expertise: Catalysis and Catalytic Processes
Chemical Engineering and Technology
Engineering and Technology
Process and Reactor Design

Degree	Department/Program	University	Year
Doctorate	KİMYA (DR)	Burdur Mehmet Akif Ersoy University	2026
Master's Degree	BİYO FİZİK (YL) (TEZLİ)	İstanbul University	2021
Bachelor's Degree	KİMYA MÜHENDİSLİĞİ BÖLÜMÜ	İstanbul University	2018

Master's Thesis Title (abstract attached) and Thesis Supervisor(s):

Sisplatin yüklü, miseler yapıda kazein nanopartiküllerin sentezi, karakterizasyonu ve in vitro uygulamaları

Doctoral Thesis/Proficiency Study/Medical Specialization Thesis Title (abstract attached) and Supervisor(s):

Kobalt ftalosiyanın içeren mezogözenekli silika ve organosilika heterojen katalizörlerin hazırlanması, karakterizasyonu ve benzil alkol oksidasyonundaki katalitik aktivitelerinin incelenmesi

Position Title	Workplace	Year
Assistant Professor	Biruni University	2026-Continues

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

A1. Gök H. Z., Arlı O. T., Çoban K., Gök Y., "Photooxygenation of naphthols catalyzed by cationic zinc phthalocyanine immobilized on mesoporous SBA-15", *Polyhedron*, vol. 298, 2026.

A2. Arlı O. T., Gök H. Z., "Alkoxysilane-assisted immobilization of cobalt phthalocyanine on mesoporous MCM-41: Thermal and photocatalytic oxidation of benzylic alcohols", *Polyhedron*, vol. 297, 2026.

A3. Gök Y., Arlı O. T., İnan E. B., Karasulu C., Gök H. Z., "Water-Soluble Cationic Cobalt Phthalocyanine Immobilized on SBA-15 as a Recyclable Catalyst for Selective Oxidation of Benzylic Alcohols", *Applied Organometallic Chemistry*, vol. 40, no. 8, 2026.

A4. Gök H. Z., Arlı O. T., Gök Y., "A Novel Mesoporous SBA-15 Supported Bifunctional Heterogeneous Catalyst for Base-Free Transfer Hydrogenation Reaction of Ketones", *Applied Organometallic Chemistry*, vol. 39, no. 3, 2025.

- A5.** Gök Y., Arlı O. T., Gök H. Z., Erdem R., "Preparation of Mesoporous Silica Nanostructure Functionalized With Hydrobenzoin Substituted Phthalocyanine and Its Catalytic Performance in Benzyl Alcohol Oxidation", *Applied Organometallic Chemistry*, vol. 39, no. 3, 2025.
- A6.** Gök Y., Gök H. Z., Arlı O. T., Türkaslan T., "Synthesis, characterization, and drug release properties of enzyme-responsive oxamide-bridged mesoporous organosilica nanoparticles", *Turkish Journal of Chemistry*, vol. 49, no. 4, 2025.
- A7.** Gök Y., Arlı O. T., Gök H. Z., Türkaslan T., "Rational synthesis of pH-responsive mesoporous organosilica nanoparticles functionalized with 2-aminothiophenol for controlled release of curcumin", *Journal of Porous Materials*, vol. 30, no. 6, pp. 1887-1896, 2023.
- A8.** Arlı O. T., Gök Y., Gök H. Z., "pH responsive curcumin released from urea-amine group functionalized mesoporous organosilica nanoparticles", *Turkish Journal of Chemistry*, vol. 27, no. 6, pp. 1518-1528, 2023.
- A9.** Özbey H., Arlı O. T., "'Fossa navicularis" and "septum glandis": A "flow-control chamber" for the male urethra?", *Medical Hypotheses*, vol. 140, 2020.

C. National/international books written or chapters in books:

C2. Chapters in national/international books written:

- C2.1.** Arlı O. T., Gök H. Z., "A Photocatalytic Investigation of Benzyl Alcohol Oxidation", *Contemporary Research in Natural Science and Mathematics*, All Sciences Academy, 2025.
- C2.2.** Arlı O. T., Gök Y., Gök H. Z., "Synthesis and Characterization of a Heterogeneous Catalyst Supported with Mesoporous SBA-15 and Investigation of Its Catalytic Activity in Asymmetric Transfer Hydrogen Reactions in Various Aromatic Ketones", *Innovations in Nanomaterial Synthesis and Applications: From Heavy Metal Removal to Solid Oxide Fuel Cells and Beyond*, BIDGE Publications, 2023.