



CURRICULUM VITAE

Name and Surname: Tunç Çatal
Academic Title: Professor Dr.
Work Address: A324
Email: tcatal@biruni.edu.tr
Foreign Languages Known (Score and Year): German, B2 Upper Intermediate, 2026
English, C2 Proficiency, 2022
Area of Expertise: Engineering and Technology

Degree	Department/Program	University	Year
Post Doctorate			2010
Doctorate	Moleküler Biyoloji-Genetik ve Biyoteknoloji	Istanbul Technical University	2008
Master's Degree	Biyoloji	İstanbul University	2004
Bachelor's Degree	Biyoloji	İstanbul University	2001

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

Siçan (*Rattus norvegicus*)'larda D-galaktozamin ile oluşturulan karaciğer hasarında askorbik asit, beta-karoten, alfa-tokoferol ve selenyumun rolü

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

Effects of various carbohydrates on electricity generation in microbial fuel cell

Position Title	Workplace	Year
Academic Staff	Üsküdar University	2012-2026
Researcher		2006-2008

Roles in Projects:

- Meme Kanseri Tedavisi İçin Yeni Bir Yaklaşım: Antrakinin Bazlı Doku İskeleti ve İn Vitro Uygulamaları*, Project Supported by Other Official Institutions, Çatal T., Özkök F., Onul N. (Executive), 2026-Continues.
- Gemi Atıklarının Çevre Sağlığına Tehdidi: Biyoelektrokimyasal Hücreler Kullanılarak Çevresel Ortamdan Uzaklaştırılması ve Enerjiye Dönüştürülmesi*, TUBITAK Project, Çatal T., Akagündüz D. (Executive), 2025-2026.

Administrative Duties:

- Head of Department - Üsküdar University (2021 - 2026)
- Head of Main Science/Science Department - Üsküdar University (2018 - 2026)

3. Center Director - Üsküdar University (2017 - 2026)

Undergraduate and graduate level courses taught in the last two years (If offered, summer courses will also be added to the table):

Academic Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretical	Practical	
2025	Spring	Biyoteknolojide Güncel Konular			
2025	Spring	Microbiology			
2025	Spring	Moleküler Hücre Biyolojisi			
2025	Fall	Biyoteknolojide Güncel Konular			
2025	Fall	Microbiology			
2025	Fall	Moleküler Hücre Biyolojisi			

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

- A1.** Çatal T., Kılınç B., Kavaleuskaya A., Kul A., Enisoğlu Atalay V., "Soil-based microbial fuel cells for the detection of DDT and its derivatives: a potential bioelectrochemical sensor", *Bioelectrochemistry*, vol. 168, 2026.
- A2.** Çatal T., Atasever Arslan B., Basidine A. E., Aslantaş Z., "In silico discovery of EGFR and HER2 inhibitors from Galium odoratum phytochemicals for bladder Cancer therapy", *Results in Chemistry*, vol. 25, 2026.
- A3.** Çatal T., Onul N., Özkök F., Kocabaş A., Küçük A., "A Novel Anthraquinone Derivative as a Chemiluminescence Enhancer in Luminol Assays: Insights Into the CRET Mechanism", *Luminescence*, vol. 41, 2026.
- A4.** Çatal T., Sarıoğlu Y., Sever Kaya D., Kurt H., Kantarcı Çarşıbaşı N., Kul A., "Coupling dalapon biodegradation with electricity generation in microbial fuel cells", *Bioresourc Technology*, vol. 445, 2026.
- A5.** Çatal T., Arslan S., "Simultaneous electricity generation and removal of Sars-Cov-2 from wastewater in microbial fuel cells", *Sigma Journal of Engineering and Natural Sciences – Sigma Mühendislik ve Fen Bilimleri Dergisi*, 2026.
- A6.** Çatal T., Sezer Zhmurov Ç., Özkök F., Onul N., Kavaleuskaya A., Kılınç B., "A Novel Curcumin Compound Activity Against Sodium Arsenate Toxicity in Human Fibroblast Cell Line", *Bratislava Medical Journal*, vol. 126, 2025.

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

C1. National/international books written:

- C1.1.** Çatal T., *Mikrobiyal Elektrokimyasal Hücre Teknolojisi ve Laboratuvar Notları*, EUCHEMBIOJ Publishing Platform, İstanbul, 2026.

D. Articles published in national peer-reviewed journals:

- D1.** Çatal T., Kul A., Enisoğlu Atalay V., Kılınç B., Tarbiat S., "Investigation of antioxidant activities of Ganoderma mushroom", *Bulgarian Chemical Communications*, 2026.
- D2.** Çatal T., Kılınç B., Kavaleuskaya A., Sever Kaya D., Kurt H., "Effects of arsenate on electricity generation and microbial communities in single-chamber microbial fuel cells", *Biotech Studies*, vol. 35, 2025.