

Res. Asst. Meltem YURDAKUL

Personal Information

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International Researcher IDs

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Education

Postgraduate, Yildiz Technical University, Clean Energy Technologies Institute, Turkey 2025 - Present

Undergraduate, Izmir Institute Of Technology, Faculty of Engineering, Chemical Engineering, Turkey 2018 - 2023

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Quality Management, ISO 9001:2015 Quality Management System Basic Training, Turkish Standards Institution, 2023

Dissertations

Postgraduate, Hidrojen Üretimi Amacıyla TiO₂/MoS₂ Fotokatalizörlerin Sentezlenmesi ve Yeşillik İndeksinin Hesaplanması, Yildiz Technical University, Clean Energy Technologies Institute, İleri Enerji Teknolojileri Anabilim Dalı, 2025

Research Areas

Avesis Research Areas: Chemical Engineering and Technology, Electrochemical Processes, Catalysis and Catalytic Processes

WoS Research Areas: Engineering Chemical, Energy & Fuels, Electrochemistry

Scopus Research Areas: General Chemical Engineering, General Energy, Electrochemistry

Academic Positions

Research Assistant, Yildiz Technical University, Clean Energy Technologies Institute, 2025 - Present

Articles

- I. -Solar-driven natural seawater splitting with TiO₂ coated 2D nanosheet MoS₂ photocatalyst for

hydrogen production

Yurdakul M., Yildirim B., Kantürk Figen A.

International Journal of Hydrogen Energy, vol.236, 2026 (SCI-Expanded, Scopus)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Design and application of boron-based photocatalysts toward sustainable hydrogen production**
Yurdakul M., Kantürk Figen A.
CleanTech Hydrogen and PV Breakthroughs, Antalya, Turkey, 13 - 16 November 2025, pp.25, (Summary Text)
- II. **DEVELOPMENT OF IrO_x ELECTROCATALYSTS WITH GLYCINE MODIFIED ADAMS FUSION METHOD**
Yurdakul M., Figen H. E., Özdemir O. K.
World Energy Storage Conference (WESC-2025), İstanbul, Turkey, 7 - 10 December 2025, pp.327-330, (Full Text)
- III. **SOLAR DRIVEN GREEN HYDROGEN PRODUCTION: TiO₂@MoS₂ NANOCOMPOSITE SYNTHESIS AND PERFORMANCE**
Yurdakul M., Yildirim B., Kantürk Figen A.
9th International Hydrogen Technologies Congress, İzmir, Turkey, 25 - 28 May 2025, pp.478-481, (Full Text)

Funded Projects

KANTÜRK FİGEN A., YURDAKUL M., Project Supported by Higher Education Institutions, BAP MSc, Hidrojen Üretimi Amacıyla TiO₂MoS₂ Fotokatalizörlerin Sentezlenmesi ve Yeşillik İndeksinin Hesaplanması, 2025 - Present

Figen H. E., Özdemir O. K., Energy and Natural Resources Ministry, 250 kW PEM Katalizörlerin Hazırlanması, 2024 - 2026

Metrics

Publication: 4

Congress and Symposium Activities

The 5th World Energy Storage Conference, Attendee, İstanbul, Turkey, 2025

CleanTech2025: Hydrogen and PV Breakthroughs Congress, Attendee, Antalya, Turkey, 2025

9th International Hydrogen Technologies Congress, Attendee, İzmir, Turkey, 2025