Res. Asst. MERT ÖKTEN

Personal Information

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International Researcher IDs
ORCID: 0000-0003-0077-4471
Publons / Web Of Science ResearcherID: AAZ-8328-2020
Yoksis Researcher ID: 317340

Education

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2020 - Present
Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2018 - 2020
Undergraduate, Erciyes University, Mühendislik Fakültesi, Turkey 2011 - 2016

Foreign Languages

English

Dissertations

Postgraduate, Hibrit nano akışkanın plakalı ve eş merkezli boru ısı değiştiricisindeki performansının deneysel incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, 2020

Academic Positions

Research Assistant, Manisa Celal Bayar University, 2020 - Present

Articles

I. **Evaluation of a divided manifold design for water-cooled PVT collectors: A combined CFD and experimental study**
İlaslaner İ., VARİYENLİ H. İ., Tuncer A. D., SÖZEN A., ÖKTEN M., Gültekin Y., Khanlari A.
Applied Thermal Engineering, vol.303, 2026 (SCI-Expanded, Scopus)

II. **Economic and financial approaches to spent nuclear fuel, radioactive waste, and decommissioning: an international review and implications for Türkiye**
Kilic S. S., Yigit S., Sobahi N. M., VARİYENLİ H. İ., ÖKTEN M., Kamislioglu M.
Kerntechnik, vol.91, no.4, pp.490-505, 2026 (SCI-Expanded, Scopus)

III. **JBO-OSN: A Synaptic Bio-Inspired Optimization Approach for Floatovoltaic Hybrid Energy Systems in The Tuz Gölü (Salt Lake) Region**
ÖKTEN M.
Academic Platform journal of engineering and smart systems (Online), vol.14, no.1, pp.36-45, 2026 (TRDizin)

IV. **Design and Optimization of the Turkish Green Supergrid: Multi-Commodity Network Planning from Altai to the Danube**
ÖKTEN M.
Engineering Perspective, vol.6, no.1, pp.106-113, 2026 (Scopus)

V. **OTEC-Assisted Mariculture Integrated with Symbiotic Anemone–Zooxanthellae Systems: A Numerical Investigation for Sustainable Coastal Applications**
ÖKTEN M.
International Journal of Thermodynamics, vol.29, no.1, pp.61-68, 2026 (ESCI, Scopus)

VI. **Water–Energy–Food Nexus and Circular Economy Analysis of Melon (Cucumis melo L.) and Grape (Vitis vinifera L.) Value Chains: A Life Cycle, Water Footprint, and Exergy Assessment with Turkish Case Studies**
ÖKTEN M.
Clean Energy and Sustainability, vol.4, no.3, 2026 (Scopus)

VII. **Exergy-based four-dimensional sustainability assessment of energy systems integrating entropy, economy and environment: a case study of Türkiye**
ÖKTEN M.
International Journal of Exergy, vol.51, no.1, pp.14-29, 2026 (SCI-Expanded, Scopus)

VIII. **Photovoltaic and biogas based renewable energy applications in livestock farms in Karaman province**
YILMAZER M., ÖZEN Y. S., VARIYENLI H. I., ÖKTEN M.
Mediterranean Agricultural Sciences, vol.38, no.2, pp.75-83, 2025 (TRDizin)

IX. **Urban rail systems sustainability and green transformation: the use of renewable energy in Ankara, İstanbul, and İzmir**
ÖKTEN M.
Journal of innovative engineering and natural science (Online), vol.5, no.2, pp.663-674, 2025 (TRDizin)

X. **Performance Analysis of Methane-Hydrogen Mixture in Combined Type Gas Burners**
ÖKTEN M., VARIYENLI H. I., KARYEYEN S., Göktekin K.
Politeknik Dergisi, vol.28, no.3, pp.969-977, 2025 (ESCI, TRDizin)

XI. **Usability of pre-mixed methane-hydrogen mixture in hermetic type combined power systems: An experimental and numerical evaluation in terms of emissions and energy efficiency**
Ökten M., VARİYENLİ H. İ., KARYEYEN S.
International Journal of Hydrogen Energy, vol.120, pp.225-237, 2025 (SCI-Expanded, Scopus)

XII. **Reducing Carbon Footprint in Ankara: The Use of Biodiesel Produced from Waste Oils in Public Transportation**
Kapıkıran O. F., VARIYENLI H. I., ÖKTEN M., KILIÇ S. S.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.13, no.1, pp.219-230, 2025 (TRDizin)

XIII. **Design of a Coal Drying System with Solar-Assisted Heat Pump and Waste Heat Utilisation**
Ökten M.
International Journal of Thermodynamics, vol.26, no.2, pp.65-71, 2023 (ESCI, Scopus)

XIV. **A real-time simulation environment architecture for autonomous vehicle design Otonom araç tasarimi için gerçek zamanli benzetim ortami mimarisi**
ÖZÇEVİK Y., SOLMAZ Ö., BAYSAL E., Ökten M.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.38, no.3, pp.1867-1878, 2023 (SCI-Expanded, Scopus, TRDizin)

XV. **Numerical Investigation and Machine Learning-Based Prediction of the Effect of Using Ring Turbulators on Heat Transfer Characteristics in a Counterflow Heat Exchanger**
SOLMAZ Ö., BAYSAL E., Ökten M.
Recent Innovations in Chemical Engineering, vol.16, no.5, pp.362-378, 2023 (Scopus)

XVI. **Numerical investigation of the effect of using counter-flow turbulators on pressure change in inner tube heat exchangers İç içe borulu isı değiştiricide zıt akışta türbülatör kullanımının basınç değişimine etkisinin sayısal olarak incelenmesi**

BAYSAL E., SOLMAZ Ö., Ökten M., Başeski Y.
El-Cezeri Journal of Science and Engineering, vol.8, no.2, pp.817-826, 2021 (Scopus, TRDizin)

Funded Projects

ÖKTEN M., VARİYENLİ H. İ., Project Supported by Higher Education Institutions, Hermetik Tip Birleşik Gaz Yakıcı Cihazlarda Hidrojen Yakıtının Kullanılabilirliğinin Sayısal ve Deneysel Araştırılması, 2022 - Continues
ÖZÇEVİK Y., BAYSAL E., ÖKTEN M., SOLMAZ Ö., Project Supported by Higher Education Institutions, Trafik Levhalarını Tanıyarak Yönlendirilebilen Otonom Araç Tasarımı ve İmalatı, 2021 - 2022

Metrics

Publication: 16
Citation (WoS): 5
Citation (Scopus): 18
H-Index (WoS): 1
H-Index (Scopus): 3

Non Academic Experience

İdealist Mühendislik, Proje Mühendisi
Tekno Akıllı Eğitim Kurumları A.Ş., Yenilenebilir Enerji Teknolojileri Öğretmeni