

## Res. Asst. Oğuzhan Ulucak

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### Academic Titles / Tasks

Research Assistant, TED University, Faculty of Engineering, Department of Mechanical Engineering, 2020 - Continues  
Research Assistant, 2020 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A novel CFD-ANN approach for plunger valve optimization: Cost-effective performance enhancement**  
Ulucak O.  
Flow Measurement and Instrumentation, vol.97, pp.0-1, 2024 (SCI-Expanded)
- II. **Prediction of the onset of shear localization based on machine learning**  
Ulucak O., Aylı E., Akar S.  
ARTIFICIAL INTELLIGENCE FOR ENGINEERING DESIGN, ANALYSIS AND MANUFACTURING: AIEDAM, vol.37, pp.15-20, 2023 (SCI-Expanded)
- III. **Critical decision making for rehabilitation of hydroelectric power plants**  
Celebioğlu K., Aylı E., Ulucak O., Aradağ Çelebioğlu S., Westerman J.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.45, no.4, pp.10073-10106, 2023 (SCI-Expanded)
- IV. **Developing and Implementation of an Optimization Technique for Solar Chimney Power Plant With Machine Learning**  
Ulucak O., Kocak E., BAYER Ö., BELDEK U., Yapıcı E. O., Aylı E.  
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.143, no.5, 2021 (SCI-Expanded)
- V. **YAPAY SİNİR AĞLARI VE UYARLAMALI SİNİRSEL BULANIK ÇIKARIM SİSTEMİ İLE FRANCİS TİPİ TÜRBİNLER İÇİN VERİM TAHMİNLEMESİ**  
Ulucak O.  
ISI BİLİMİ VE TEKNİĞİ DERGİSİ/ JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.40, no.1, pp.87-98, 2020 (SCI-Expanded)