

## Lect. ESRA BAYIR

### Personal Information

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### International Researcher IDs

ScholarID: OTvPIH0AAAAJ

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### Education Information

Postgraduate, Erciyes University, Mühendislik Fakültesi, Enerji Sistemleri Mühendisliği, Turkey 2019 - 2023

Undergraduate Double Major, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, Turkey 2016 - 2019

Undergraduate, Erciyes University, Mühendislik Fakültesi, Enerji Sistemleri Mühendisliği, Turkey 2014 - 2019

### Dissertations

Postgraduate, Hibrit yenilenebilir enerji sisteminin Karabük ilinde kullanım kapasitesinin incelenmesi, Erciyes University, Fen Bilimleri Enstitüsü, 2023

### Academic Titles / Tasks

Lecturer, Hacettepe University, Hacettepe Aso 1. Osb Myo, Elektrik Ve Enerji Bölümü, 2024 - Continues

### Courses

ENERJİ EKONOMİSİ, Associate Degree, 2023 - 2024

ENERJİ DÖNÜŞTÜRME SİSTEMLERİ, Associate Degree, 2023 - 2024

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

#### I. Evaluation of capacity of hybrid energy systems to decrease the environmental pollution

Bayır E., Açikel H. H.

FUEL, vol.328, pp.1-10, 2022 (SCI-Expanded)

#### II. Experimental study of the wind turbine airfoil with the local flexibility at different locations for more energy output

Koca K., Genç M. S., Bayır E., Soğuksu F. K.

ENERGY, vol.239, pp.1-13, 2022 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Hydrogen Production using a Hybrid System Built with Renewable Energy Resources in Yenice**  
Bayır E., Açikel H. H.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, no.11(4), pp.1244-1260, 2023 (Peer-Reviewed Journal)
- II. **ELEKTRİK MOTORLARINDA ENERJİ SINIFLARI ARASI TÜKETİM FARKLILIKLARI VE VERİMLİLİK ARTIRICI METOTLAR**  
Keleşoğlu A., Kocaoglu S., Yöntem M., Çağlar S., Aydın İ. N., Bayır E., Yılmaz C., Demirel E. Y., Unver U.  
Soma Meslek Yüksekokulu Teknik Bilimler Dergisi, vol.1, no.35, pp.1-15, 2023 (Peer-Reviewed Journal)
- III. **Innovative Wire Conveyor Drive System in Industrial Infrared Furnaces**  
Bayır E., Keleşoğlu A.  
Orclever Proceedings of Research and Development, vol.1, no.1, pp.1-7, 2022 (Peer-Reviewed Journal)

## Supported Projects

Bayır E., Genç M. S., TUBITAK Project, YENİLENEBİLİR ENERJİ KAYNAKLARININ KIRSAL ALANLARDA VERİMLİ KULLANIMI İÇİN ZEKİ SULAMA SİSTEMİ, 2018 - 2019

## Patent

Bayır E., Genç M. S., Genç G., ELEKTRONİK KONTROLLÜ MEKANİK VALF, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2021 005814 , Standard Registration, 2024

Bayır E., Genç G., Genç M. S., SOLUNUM CİHAZININ VALF BOBİNİ TASARIMI, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2021 014642 , Standard Registration, 2023

## Metrics

Publication: 5