

## **Res. Asst. BİLGE TUNÇEL**

### **Personal Information**

**Email:** btuncel@ankara.edu.tr

**Web:** <https://avesis.ankara.edu.tr/btuncel>

### **International Researcher IDs**

ORCID: 0000-0002-6856-0384

ScopusID: 57202423686

Yoksis Researcher ID: 304955

### **Education Information**

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Physics, Turkey 2019 - Continues

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Physics, Turkey 2016 - 2019

Undergraduate Minor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 2011 - 2016

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey 2009 - 2015

### **Foreign Languages**

English, C2 Mastery

### **Dissertations**

Postgraduate, INVESTIGATING THE PERFORMANCES OF PHOTOVOLTAIC MODULES/SYSTEMS FOR CENTRAL ANATOLIA USING A THERMAL MODELLING APPROACH, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Physics, 2019

### **Research Areas**

Mechanical Engineering, Energy

### **Academic Titles / Tasks**

Research Assistant, Ankara University, Mühendislik Fakültesi, Enerji Mühendisliği Bölümü, 2019 - Continues

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

1. SiO<sub>2</sub>/WO<sub>3</sub>/ZnO based self-cleaning coatings for solar cells

KÖYSÜREN Ö., Dhoska K., Koyşuren H. N., Markja I., YAĞLIKÇI S., TUNÇEL B., Bebi E.

Journal of Sol-Gel Science and Technology, vol.110, no.1, pp.183-203, 2024 (SCI-Expanded)

**II. Thermal and fluid dynamic optimization of a CPV-T receiver for solar co-generation applications: Numerical modelling and experimental validation**

Santos D., Azgin A., Castro J., Kizildag D., Rigola J., TUNÇEL B., TURAN R., Preßmair R., Felsberger R., Buchroithner A. Renewable Energy, vol.211, pp.87-99, 2023 (SCI-Expanded)

**III. Beyond 3rd generation solar cells and the full spectrum project. Recent advances and new emerging solar cells**

AKINOĞLU B. G., Tuncel B., Badescu V.

SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.46, 2021 (SCI-Expanded)

**IV. Dynamic thermal modelling of PV performance and effect of heat capacity on the module temperature**

Tuncel B., Ozden T., Balog R. S., Akinoglu B. G.

CASE STUDIES IN THERMAL ENGINEERING, vol.22, 2020 (SCI-Expanded)

## **Refereed Congress / Symposium Publications in Proceedings**

**I. Thermal Modeling and Verification of PV Module Temperature and Energy Yield Using Outdoor Measurements for Ankara, Turkey**

Tuncel B., Ozden T., AKINOĞLU B. G., Balog R. S.

International Conference on Photovoltaic Technologies (PVCon), Ankara, Turkey, 4 - 06 July 2018

## **Supported Projects**

Köysüren Ö., Köysüren H. N., Yağlıkçı S., Tunçel B., TÜBİTAK International Bilateral Joint Cooperation Program Project, Güneş Hücreleri İçin Kendi Kendini Temizleyen Kaplamaların Hazırlanması, 2023 - 2024

Tunçel B., Other International Funding Programs, Economic COgeneration by Efficiently CONcentrated SUNlight, 2020 - 2023

## **Metrics**

Publication: 5

Citation (WoS): 28

Citation (Scopus): 43

H-Index (WoS): 2

H-Index (Scopus): 3