

## **Personal Information**

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## **International Researcher IDs**

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## **Education Information**

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 2019 - Continues

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 2016 - 2019

Undergraduate, Cukurova University, Mühendislik Fakültesi, Makina Müh., Turkey 2009 - 2015

## **Dissertations**

Postgraduate, Analysis of desiccant air-conditioning system with dew-point evaporative cooling, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, 2019

## **Research Areas**

Mechanical Engineering, Alternative Energy Resources, Solar energy, Thermodynamics, Heating, Refrigerating and Air Conditioning, Thermal Systems, Engineering and Technology

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

- I. **Numerical investigation and ANN modeling of performance for hexagonal boron Nitride-water nanofluid PVT collectors**  
Büyükalaca O., Olmuş U., Güzelel Y. E., Çerçi K. N.  
Thermal Science and Engineering Progress, vol.43, no.101997, pp.1-18, 2023 (SCI-Expanded)
- II. **Seasonal analysis of a desiccant air-conditioning system supported by water-cooled PV/T units**  
Olmuş U., Güzelel Y. E., Büyükalaca O.  
ENERGY AND BUILDINGS, vol.2023, no.291, pp.1-14, 2023 (SCI-Expanded)
- III. **Simulation of a desiccant air-conditioning system integrated with dew-point indirect evaporative cooler for a school building**  
GÜZELEL Y. E., OLMUŞ U., BÜYÜKALACA O.  
APPLIED THERMAL ENGINEERING, vol.217, 2022 (SCI-Expanded)
- IV. **New multiple regression and machine learning models of rotary desiccant wheel for unbalanced flow conditions**  
GÜZELEL Y. E., OLMUŞ U., cerçi K. N., BÜYÜKALACA O.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.134, 2022 (SCI-Expanded)
- V. **Performance assessment of a desiccant air-conditioning system combined with dew-point indirect**

#### **evaporative cooler and PV/T**

OLMUŞ U., Güzelel Y. E., PINAR E., ÖZBEK A., BÜYÜKALACA O.  
SOLAR ENERGY, vol.231, pp.566-577, 2022 (SCI-Expanded)

#### **VI. Comprehensive modelling of rotary desiccant wheel with different multiple regression and machine learning methods for balanced flow**

GÜZELEL Y. E., OLMUŞ U., Cerci K. N., BÜYÜKALACA O.  
APPLIED THERMAL ENGINEERING, vol.199, 2021 (SCI-Expanded)

### **Articles Published in Other Journals**

#### **I. Effect of operating parameters on the performance of rotary desiccant wheel energized by PV/T collectors**

OLMUŞ U., GÜZELEL Y. E., ÇERÇİ K. N., BÜYÜKALACA O.  
Journal of Thermal Engineering, 2023 (Peer-Reviewed Journal)

#### **II. Use of the Tea Wastes in Pleurotus Cultivation as an Alternative Substrate Material in Turkey under Conventional Controlled Climate**

BAKTEMUR G., TAŞKIN H., GÜZELEL Y. E., BÜYÜKALACA O., AKILLI H.  
International Journal of Advances in Science Engineering and Technology, vol.6, no.1, pp.13-16, 2018 (Peer-Reviewed Journal)

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

#### **I. Performance Investigation of PV/T Assisted Desiccant Wheel for Different Operating Parameters**

OLMUŞ U., GÜZELEL Y. E., ÇERÇİ K. N., BÜYÜKALACA O.  
International Conference on Engineering, Natural and Applied Science 2021 (ICENAS'21), Osmaniye, Turkey, 24 - 26 November 2021

#### **II. Döner Tip Nem Alıcının Performansına Dönme Hızının Etkisi**

GÜZELEL Y. E., OLMUŞ U., ÇERÇİ K. N., BÜYÜKALACA O.  
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.623-628

#### **III. Parametric Analysis of a Desiccant Seed Drying System**

GÜZELEL Y. E., AKILLI H., HÜRDOĞAN E., BÜYÜKALACA O.  
International Advanced Researches and Engineering Congress, Osmaniye, Turkey, 16 - 18 November 2017, pp.659-666

### **Metrics**

Publication: 11