

Res. Asst. YUNUS EMRE GÜZELEL

Personal Information

Email: yeguzelel@cu.edu.tr

Web: <https://avesis.cu.edu.tr/yeguzelel>

International Researcher IDs

ORCID: 0000-0002-7122-0241

Publons / Web Of Science ResearcherID: AAE-3057-2022

Yoksis Researcher ID: 291141

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 analysis and comparison of different serpentine-based photovoltaic-thermal collectors**
OLMUŞ U., GÜZELEL Y. E., ÇERÇİ K. N., BÜYÜKALACA O.
Renewable Energy, vol.241, 2025 (SCI-Expanded)
- II. **Performance evaluation of different types of indirect evaporative coolers: A CFD-based comparative study**
GÜZELEL Y. E., OLMUŞ U., BÜYÜKALACA O.
Journal of Building Engineering, vol.96, 2024 (SCI-Expanded)
- III. **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)
- IV. **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)
- V. **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)

- VI. **New multiple regression and machine learning models of rotary desiccant wheel for unbalanced flow conditions**

GÜZELEL Y. E., OLMUŞ U., CERÇİ K. N., BÜYÜKALACA O.

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.134, 2022 (SCI-Expanded)

- VII. **Performance assessment of a desiccant air-conditioning system combined with dew-point indirect evaporative cooler and PV/T**

OLMUŞ U., Guzelel Y. E., PINAR E., ÖZBEK A., BÜYÜKALACA O.

SOLAR ENERGY, vol.231, pp.566-577, 2022 (SCI-Expanded)

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

GÜZELEL Y. E., OLMUŞ U., CERÇİ 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, vol.9, pp.988-997, 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: 13

Citation (WoS): 105

Citation (Scopus): 116

H-Index (WoS): 6

H-Index (Scopus): 6