

Res. Asst. UMUTCAN OLMUŐ

Personal Information

Email: uolmus@cu.edu.tr

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

International Researcher IDs

ORCID: 0000-0002-5799-1840

Publons / Web Of Science ResearcherID: I-9854-2018

Yoksis Researcher ID: 262200

Education Information

Doctorate, Cukurova University, Makina Mühendisliđi, Makine Mühendisliđi, Turkey 2019 - Continues

Postgraduate, Cukurova University, Makina Mühendisliđi, Makine Mühendisliđi, Turkey 2016 - 2019

Undergraduate, Cukurova University, Mühendislik Mimarlık Fakültesi, Makine Mühendisliđi , Turkey 2009 - 2015

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Postgraduate, Analysis of desiccant air-conditioning system with PVT, Cukurova University, Makina Mühendisliđi, Makine Mühendisliđi, 2019

Research Areas

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

Academic Titles / Tasks

Research Assistant, Cukurova University, Mühendislik Fakültesi, Makina Müh., 2018 - Continues

Research Assistant, Iskenderun Technical University, Faculty Of Engineering And Natural Sciences, Department Of Energy Systems Engineering, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- Performance evaluation of different types of indirect evaporative coolers: A CFD-based comparative study**
GÜZELEL Y. E., OLMUŐ U., BÜYÜKALACA O.
Journal of Building Engineering, vol.96, 2024 (SCI-Expanded)

- II. **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)
- III. **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)
- IV. **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)
- V. **New multiple regression and machine learning models of rotary desiccant wheel for unbalanced flow conditions**
GÜZELEL Y. E., OLMUŞ U., ÇERÇİ K. N., BÜYÜKALACA O.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.134, 2022 (SCI-Expanded)
- VI. **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)
- VII. **Comprehensive modelling of rotary desiccant wheel with different multiple regression and machine learning methods for balanced flow**
GÜZELEL Y. E., OLMUŞ U., ÇERÇİ 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)

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.
Int. Conference on Engineering, Natural and Applied Science 2021, Osmaniye, Turkey, 24 - 26 November 2021, pp.133
- 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. **Dairesel Silindir Etrafındaki Akış Yapısının Kontrü İçin Hibrit Control Elementi**
PINAR E., DURHASAN T., ÖZKAN G. M., OLMUŞ U., AKILLI H., ŞAHİN B.
7th International Symposium on Innovative Technologies in Engineering and Science, Turkey, 22 - 24 November 2019, vol.2, pp.905-915
- IV. **Experimental Investigation of Flow Structures Around side-by-side Yawed Cylinders in Shallow Water**
KÜTÜK E., OLMUŞ U., DURHASAN T., AKILLI H.
7th International Symposium on Innovative Technologies in Engineering and Science, Turkey, 22 - 24 November

2019, vol.2, pp.1138-1151

- V. **DAİRESEL SİLİNDİRİN YAKIN ARD İZİNİN DELİKLİ İKİ PLAKA YARDIMI İLE KONTROL EDİLMESİ**
PINAR E., DURHASAN T., OLMUŞ U., ÖZKAN G. M., AKILLI H., ŞAHİN B.
International Symposium on Advanced Engineering Technologies, Kahramanmaraş, Turkey, 2 - 04 May 2019, vol.1, pp.1422-1512
- VI. **Control of the Flow Structure of a Circular Cylinder Using Concentrically Installed Perforated Cylinder and Splitter Plate**
PINAR E., YENİÇUN A., ÖZKAN G. M., DURHASAN T., OLMUŞ U., AKILLI H., ŞAHİN B.
6th International Symposium on Innovative Technologies in Engineering and Science, Antalya, Turkey, 9 - 11 November 2018, pp.761-777
- VII. **Dairesel Silindirin Etrafındaki Akışın Delikli Plaka Yardımı ile Kontrol Edilmesi**
PINAR E., DURHASAN T., ÖZKAN G. M., OLMUŞ U., ÇETİN a., AKILLI H., ŞAHİN B.
Science and Research Congress Cyprus, 4 - 06 September 2018
- VIII. **Flow structure in the annular region of perforated shroud**
DURHASAN T., PINAR E., ÖZKAN G. M., OLMUŞ U., AKILLI H., ŞAHİN B.
Mediterranean Natural Sciences and Engineering Congress, 19 - 22 October 2017

Metrics

Publication: 16