

Assoc. Prof. CANAN KANDİLLİ

Personal Information

Email: canan.kandilli@usak.edu.tr

Web: <https://avesis.usak.edu.tr/canan.kandilli>

International Researcher IDs

ORCID: 0000-0001-7159-4174

ScopusID: 24080359600

Yoksis Researcher ID: 148396

Education Information

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Enerji (Dr), Turkey 2003 - 2007

Postgraduate, Dokuz Eylul University, Eğitim Bilimleri Enstitüsü, Fizik Öğretmenliği (YI) (Tezli), Turkey 1999 - 2002

Undergraduate, Dokuz Eylul University, Buca Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 1995 - 1999

Foreign Languages

English, B2 Upper Intermediate

Academic Titles / Tasks

Associate Professor, Usak University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2014 - Continues

Assistant Professor, Usak University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2008 - 2014

Research Assistant, Usak University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2007 - 2008

Academic and Administrative Experience

Usak University, 2009 - Continues

Usak University, 2009 - Continues

Usak University, 2011 - 2014

Courses

Bileşik Isı-Güç Sistemleri, Doctorate, 2017 - 2018

Enerji Yönetimi, Undergraduate, 2017 - 2018

Yenilenebilir Enerji Kaynaklarının Enerji ve Ekserji Analizi, Postgraduate, 2017 - 2018

Bitirme Projesi, Undergraduate, 2017 - 2018

Atık Isı Geri Kazanımı, Doctorate, 2017 - 2018

Makine Proje, Undergraduate, 2017 - 2018

İleri Güneş Enerjisi Uygulamaları, Postgraduate, 2017 - 2018

Güneş Enerjili Kurutma Sistemleri, Doctorate, 2017 - 2018

Bilimsel Araştırma Teknikleri ve Yayın Etiği, Postgraduate, 2017 - 2018

Fizik, Undergraduate, 2017 - 2018

Isı ve Kütle Geçişi, Undergraduate, 2017 - 2018

Yenilenebilir Enerji Kaynakları, Undergraduate, 2017 - 2018

Uygulamalı Enerji Dönüşümleri, Undergraduate, 2017 - 2018

Güneş Enerjisinin Temelleri, Postgraduate, 2017 - 2018

Yenilenebilir Enerji Sistemlerinde Optimizasyon, Doctorate, 2017 - 2018

Yapılarda ve Sanayide Enerji Verimliliği, Postgraduate, 2017 - 2018

Advising Theses

CANAN K., Silisyum esaslı güneş panellerinin geri dönüşümü ve tekrar kullanımının ekonomik ve çevresel etkilerinin incelenmesi, Postgraduate, İ.TOKGÖZ(Student), 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An Experimental and Numerical Study on the Optimum Flow Rate of a Photovoltaic Thermal System Integrated with Phase Change Materials**
KANDİLLİ C., Mertoglu B.
Journal of Engineering Thermophysics, vol.31, no.3, pp.458-476, 2022 (SCI-Expanded)
- II. **Thermophysical properties of natural zeolite plates enhanced with aluminum granule for thermal management of Photovoltaic Thermal Systems (PVTs)**
KANDİLLİ C., AÇIKBAŞ Y., Uzel M.
Journal of Energy Storage, vol.50, 2022 (SCI-Expanded)
- III. **Prediction of the effect of temperature on electric power in photovoltaic thermal systems based on natural zeolite plates**
Metlek S., KANDİLLİ C., Kayaalp K.
International Journal of Energy Research, vol.46, no.5, pp.6370-6382, 2022 (SCI-Expanded)
- IV. **Investigation of thermophysical properties of natural zeolite plates enhanced with graphite powder for thermal management of PV thermal systems**
KANDİLLİ C., AÇIKBAŞ Y., Uzel M.
Journal of Cleaner Production, vol.318, 2021 (SCI-Expanded)
- V. **Exergoeconomic analysis of photovoltaic thermal systems based on phase change materials and natural zeolites for thermal management**
KANDİLLİ C., Uzel M.
Journal of Thermal Analysis and Calorimetry, vol.145, no.3, pp.1373-1384, 2021 (SCI-Expanded)
- VI. **Experimental and economical performance investigation of V-trough concentrator with different reflectance characteristic in photovoltaic applications**
Ustaoglu A., KANDİLLİ C., Cakmak M., Torlaklı H.
Journal of Cleaner Production, vol.272, 2020 (SCI-Expanded)
- VII. **Energy, exergy, and economical analyses of a photovoltaic thermal system integrated with the natural zeolites for heat management**
KANDİLLİ C.
International Journal of Energy Research, vol.43, no.9, pp.4670-4685, 2019 (SCI-Expanded)
- VIII. **Performance analysis of a concentrated solar energy for lighting-power generation combined system based on spectral beam splitting**
KANDİLLİ C., Külahlı G.
Renewable Energy, vol.101, pp.713-727, 2017 (SCI-Expanded)
- IX. **Evaluation of the performance of a hydrogen enriched combustion system for ceramic sector**

Articles Published in Other Journals

- I. **Evaluation of annual performance of a photovoltaic thermal system integrated with natural zeolites**
KANDİLLİ C., Uzel M.
Research on Engineering Structures and Materials, vol.6, no.4, pp.363-374, 2020 (Scopus)
- II. **Optimisation design and operation parameters of a photovoltaic thermal system integrated with natural zeolite**
KANDİLLİ C., Mertoglu B.
International Journal of Hydromechatronics, vol.3, no.2, pp.128-139, 2020 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **DOĞAL ZEOLİT PLAKASI İLE BÜTÜNLEŞTİRİLMİŞ FOTOVOLTAİK TERMAL SİSTEMİN (PVT) DENEYSEL OLARAK PERFORMANSININ İNCELENMESİ**
KANDİLLİ C., Uzel M.
ULUSLARARASI KATILIMLI 23. ISI BİLİMİ VE TEKNİĞİ KONGRESİ, Gaziantep, Turkey, 8 - 10 September 2021
- II. **Analysis of Optimum Flow Rate of a Photovoltaic Thermal System (PVT) Integrated with Phase Change Materials (PCM)**
KANDİLLİ C., Mertoğlu B.
TUBA World Conference on Energy Science and Technology (TUBA WCEST-2021), Turkey, 08 August 2021
- III. **FAZ DEĞİŞTİREN MALZEMELER ve DOĞAL ZEOLİTLERLE BÜTÜNLEŞTİRİLMİŞ FOTOVOLTAİK TERMAL (PVT) SİSTEMLERİN EKSERGOEKONOMİK ANALİZİ**
KANDİLLİ C., Uzel M.
22. Congress of Thermal Science and Technology, Turkey, 11 - 14 September 2019
- IV. **An Experimental Evaluation of Temperature Effect on Performance of PV-CPV System**
USTAOĞLU A., Özbey U., KANDİLLİ C.
ICFD2018-Fifteenth International Conference on Flow Dynamics, Sendai, Japan, 7 - 09 November 2018, vol.15, pp.114-115
- V. **FAZ DEĞİŞTİREN MALZEMELERLE BÜTÜNLEŞTİRİLEN FOTOVOLTAİK TERMAL SİSTEMLERİN (PVT) TERMODİNAMİK VE EKONOMİK PERFORMANSININ İNCELENMESİ**
KANDİLLİ C.
TESKON 2017, Turkey, 19 - 22 April 2017
- VI. **Annual Performance of a Photovoltaic Thermal System Integrated with Phase Change Materials**
KANDİLLİ C.
8. International Ege Energy Symposium, 11 - 13 May 2016
- VII. **Exergoeconomic Analysis of a Waste Heat Recovery System for Ceramic Industry**
Çağlayan H., YILDIZ A., KANDİLLİ C.
8th International Ege Energy Symposium, 11 - 13 May 2016, pp.253-360
- VIII. **Application and Thermodynamic Analysis of a Hydrogen Enriched Combustion System for Ceramic Sector**
ŞAHİN M., KANDİLLİ C., Ayna O. M.
7th International Ege Energy Symposium (IEESE7), 18 - 20 June 2014
- IX. **Investigation of Spectrally Decomposed Concentrated Solar Energy Systems**
KANDİLLİ C., Külahlı G.
1st International Conference on Renewable Energy Research and Applications (ICRERA), 11 - 14 November 2012
- X. **A comparative study on the energetic and exergetic performance of a photovoltaic thermal (PVT)**

system

Külahlı G., KANDİLLİ C.

6. International Ege Energy Symposium Exhibition, 28 - 30 June 2012

Supported Projects

Duru A., Metlek S., Kandilli C., Türker İ., Dikici A., TUBITAK Project, Günüşığı Aydınlatma Işık Borusu ve Fotovoltaik (Pv) Güneş Panelleri ile Desteklenmiş Sistem Kullanımının Etlik Piliç ve Yumurtacı Tavuk Yetiştiriciliğinde Performans, Ürün Kalitesi, Davranış, Ekonomiklik ve Karbon Ayak İzi Üzerindeki Etkilerinin Değerlendirilmesi, 2024 - 2027

Metrics

Publication: 21

Citation (Scopus): 108

H-Index (Scopus): 5