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Publons / Web Of Science ResearcherID: R-2401-2018

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Biography

Ace. Prof. Dr. Bilsay PASTAKKAYA began his graduate education in 1999 at Bursa Uludağ University Mechanical Engineering Department and he completed graduate education by being awarded the degree of Master of Science (Msc) in 2003 and Doctor of Philosophy (PhD.) in 2012 at Uludağ University Graduate School of Natural and Applied Sciences - Mechanical Engineering Department. It was the first years of the new millennium that he first acquainted with Renewable Energy at his undergraduate education and he carry on his graduate and post-doctoral researches and projects at the same topic. He experimentally studied on ground sourced heat pump systems in MSc thesis and solar cooling and heating in PhD. Dr. Pastakkaya actualized international researches in doctorate. He was invited by Prof. Yogi Goswami from University of south Florida and performed a study on alternative solar cooling systems in 2010. In 2011, he made a research on a new trigeneration applications in University of Stuttgart and as a visiting fellow in 2015; he got a chance to study in University of Nottingham with Prof. Saffa Riffat, within the scope of his post-doctoral researches on sustainable buildings and eco-houses. He also participated in many national and international projects as a project manager, research fellow research specialist and advisor. He first began his academic career in Bursa Uludağ University Orhangazi Vocational College and Yalova Vocational College in 2005. Dr. Pastakkaya is the Head of Mechanical & Metal Technology Department in Bursa Uludağ University OYAC Vocational College and continues his researches particularly on Industrial Energy Applications, Renewable Energy Systems and Sustainable Buildings, national and international scale.

Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Makine Mühendisliği (Dr), Turkey 2005 - 2012

Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Makine Mühendisliği (YI) (Tezli), Turkey 2003 - 2005

Dissertations

Doctorate, Bir konutun ısıtılması ve soğutulmasında güneş enerjisi kaynaklı absorpsiyonlu sistemlerin kullanılması, Bursa

Research Areas

Mechanical Engineering, Energy, Conventional Energy Systems and Their Technology, Renewable Energy Systems, Alternative Energy Resources, Solar energy, Engineering and Technology

Academic Titles / Tasks

Lecturer, Bursa Uludağ University, ORHANGAZİ YENİKÖY ASİL ÇELİK MYO, MAKİNE VE METAL TEKNOLOJİLERİ, 2008 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of solar powered sorption cooling and heating systems to supply hospital's thermal requirements in pandemic periods**
PASTAKKAYA B.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.18, pp.373-383, 2023 (SCI-Expanded)
- II. **Performance analysis of a geothermal heat-powered resorption cooling system: a case study for cold storage of apple fruit**
PASTAKKAYA B.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.18, pp.863-871, 2023 (SCI-Expanded)
- III. **PERFORMANCE ANALYSIS OF A RE-CIRCULATING HEAT PUMP DRYER**
YAMANKARADENİZ N., Sokmen K. F., COŞKUN S., KAYNAKLI Ö., PASTAKKAYA B.
THERMAL SCIENCE, vol.20, no.1, pp.267-277, 2016 (SCI-Expanded)
- IV. **Experimental analysis of a solar absorption system with interior energy storage**
PASTAKKAYA B., YAMANKARADENİZ N., KAYNAKLI Ö., COŞKUN S., Yamanakaradeniz R.
JOURNAL OF ENERGY IN SOUTHERN AFRICA, vol.23, no.2, pp.39-49, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Yenilenebilir Enerji Kaynaklı Isıtma Sisteminin Diyarbakır İlinde Örnek Bir Sera Uygulaması İçin Tekno-Ekonomik Analizi**
PASTAKKAYA B.
Uludağ Üniversitesi Ziraat Fakültesi Dergisi, vol.31, no.1, pp.9-22, 2017 (Peer-Reviewed Journal)
- II. **ISI POMPASI DESTEKLİ KURUTMA SİSTEMLERİNDE BY PASS ORANININ KURUTMA PERFORMANSINA ETKİSİNİN DENEYSEL ANALİZİ**
YAMANKARADENİZ N., COŞKUN S., PASTAKKAYA B., CAN M.
Uludağ Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.17, no.2, pp.17-36, 2012 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Tarımsal Soğutma Uygulamalarında Yenilenebilir Enerji Kaynaklı Resorbsiyonlu Soğutma Sistemleri**
ÜNLÜ K., PASTAKKAYA B.
3rd International Congress of Agriculture and Environment (ICAE), Antalya, Turkey, 16 - 18 November 2017, pp.114-120
- II. **Biyogaz ile Çalışan Resorbsiyonlu Trijenerasyon Sistemleri**

PASTAKKAYA B., ÜNLÜ K.

2nd ASM International Workshop of Composting and Biogas Technologies (IWCB), Antalya, Turkey, 16 - 18 November 2017, pp.30-37

- III. **Örnek Bir Sera İçin Toprak Kaynaklı Isı Pompası Sistemi ile Isıtma Uygulamasının Tekno-Ekonomik Analizi**
PASTAKKAYA B., ÜNLÜ K.
3rd International Congress of Agriculture and Environment (ICAE), Antalya, Turkey, 16 - 18 November 2017, pp.103-113
- IV. **Adana İli İçin Örnek Bir Yapıda Güneş Enerjisi Kaynaklı Absorbsiyonlu Isı Pompası Sistemi İle Soğutma-Isıtma Uygulamasının İncelenmesi**
PASTAKKAYA B., ÜNLÜ K.
2nd International Mediterranean Science and Engineering Congress, Adana, Turkey, 25 - 27 October 2017, vol.1, pp.1098-1105
- V. **Yenilenebilir Enerji Kaynaklı Resorbsiyonlu Soğutma Sistemleri**
PASTAKKAYA B., ÜNLÜ K., YASLIOĞLU E., GÜRBÜZ O., GÜRBÜZ İ. B., KILIÇ İ.
2nd International Mediterranean Science and Engineering Congress, Adana, Turkey, 25 - 27 October 2017, vol.1, pp.520-525
- VI. **Güneş Enerjisi Kaynaklı Resorbsiyonlu Soğutma Sistemleri ile Soğuk Depo Uygulamaları**
PASTAKKAYA B., ÜNLÜ K., YASLIOĞLU E., GÜRBÜZ O., GÜRBÜZ İ. B., KILIÇ İ.
International Congress of the New Approaches and Technologies for Sustainable Development, Isparta, Turkey, 21 September - 24 October 2017, vol.1, pp.182-189
- VII. **TARIMSAL ÜRÜNLER İÇİN SOĞUK DEPO UYGULAMALARINDA YENİLENEBİLİR ENERJİ KAYNAKLI RESORBSİYONLU SOĞUTMA SİSTEMİ İLE SOĞUTMA MALİYETLERİNİN DÜŞÜRÜLMESİ**
PASTAKKAYA B., ÜNLÜ K., GÜRBÜZ O., YASLIOĞLU E., GÜRBÜZ İ. B., KILIÇ İ.
V. Uluslararası Gıda Ar-Ge Proje Pazarı, İzmir, Turkey, 25 May 2017
- VIII. **Reduction In The Cost Of Cooling In Cold Storage For Agricultural Products With Renewable Powered Resorption Cooling System**
PASTAKKAYA B., ÜNLÜ K., GÜRBÜZ O., YASLIOĞLU E., KILIÇ İ., GÜRBÜZ İ. B.
V.International Food R D Brokerage Event, İzmir, Turkey, 25 May 2017
- IX. **Cooling Applications with Renewable Energy Powered Resorption Systems**
PASTAKKAYA B., CÜCE E., PINAR MERT C.
14th International Conference on Sustainable Energy Technologies, Nottingham, United Kingdom, 25 - 27 August 2015, vol.1, pp.58-64
- X. **Makine Teknolojileri Laboratuvarı**
SEREN N., PASTAKKAYA B., ÜNLÜ K.
Uludağ Üniversitesi Bilgilendirme ve AR-GE Günleri, Turkey, 11 - 13 November 2014
- XI. **Nem Alıcı ve Reküperatör Tip Isı Pompası Destekli Kurutma Sistemlerinin Performanslarının İncelenmesi**
YAMANKARADENİZ N., COŞKUN S., PASTAKKAYA B., KAYNAKLI Ö.
İKSES'2012 Ulusal İklimlendirme Soğutma Eğitimi Sempozyumu, Balıkesir, Turkey, 5 - 07 September 2012
- XII. **Dahili Enerji Depolamalı Absorbsiyonlu Isı Pompası ile Isıtma ve Soğutma Uygulaması**
PASTAKKAYA B., YAMANKARADENİZ N., COŞKUN S., YAMANKARADENİZ R.
İKSES'12 Ulusal İklimlendirme Soğutma Eğitimi Sempozyumu, Balıkesir, Turkey, 5 - 07 September 2012, pp.163-175
- XIII. **Binaların Soğutulmasında Güneş Enerjisi Kaynaklı Absorbsiyonlu Isı Pompasının Deneysel İncelenmesi**
PASTAKKAYA B., YAMANKARADENİZ N., COŞKUN S.
İklim 2011 Ulusal iklimlendirme Kongresi, Antalya, Turkey, 18 - 20 November 2011
- XIV. **Güneş Enerjisi Kaynaklı Soğutma Isıtma Teknolojileri Laboratuvarı**
YAMANKARADENİZ R., PASTAKKAYA B., YAMANKARADENİZ N., COŞKUN S., KAYNAKLI Ö.
Uludağ Üniversitesi 1.Bilgilendirme ve AR-GE Günleri, Bursa, Turkey, 15 - 16 November 2011

XV. Bursa ili için güneş enerjisi kaynaklı soğutma sisteminin deneysel analizi

PASTAKKAYA B., YAMANKARADENİZ N., COŞKUN S., KAYNAKLI Ö.

Uludağ Üniversitesi 1. Bilgilendirme ve AR-GE Günleri, Bursa, Turkey, 15 - 16 November 2011

Supported Projects

Pastakkaya B., Ünlü K., Gürbüz O., Yashoğlu E., Gürbüz İ. B., Kılıç İ., Yamankaradeniz R., Project Supported by Higher Education Institutions, Reducing Operational Cost of Agricultural Cooling Applications Using Resorption System in Orhangazi Region, Bursa, Türkiye SOLARES, 2013 - 2016

Metrics

Publication: 22

Citation (WoS): 17

Citation (Scopus): 16

H-Index (WoS): 2

H-Index (Scopus): 2