Assoc. Prof. AYŞEGÜL GÜNGÖR ÇELİK

Personal Information

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International Researcher IDs
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Education

Doctorate, Ege University, Makine Mühendisliği, Turkey 2011 - 2015
Postgraduate, Ege University, Makine Mühendisliği, Turkey 2008 - 2010
Undergraduate, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Makine Mühendisliği, Turkey 2004 - 2008

Foreign Languages

English

Dissertations

Doctorate, Gaz tahrikli ısı pompalı bir kurutma sisteminin ileri ekserji ve eksergoekonomik analiz yöntemleri kullanılarak performansının değerlendirilmesi, Ege University, 2015
Postgraduate, Gaz motoru tahrikli ısı pompalı bantlı bir kurutma sisteminin performansının ekserjetik olarak değerlendirilmesi, Ege University, 2010

Academic Positions

Assistant Professor, Manisa Celal Bayar University, HASAN FERDİ TURGUTLU TEKNOLOJİ FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2021 - Present
Lecturer, Gediz University, 2010 - Present
Research Assistant, Gediz University, 2009 - Present

Academic and Administrative Experience

Manisa Celal Bayar University, 2022 - Present

Courses

Undergraduate
MAK 2112.1 Termodinamik -ll, Undergraduate, 2021-2022

MAK 2110.1 Isı Transferi, Undergraduate, 2021-2022
MEE 4275.1 Risk Management, Undergraduate, 2021-2022
MAK 4101.5 Makine Mühendisliği Projesi, Undergraduate, 2021-2022
Undergraduate Double Major
FEN 5501.1 Bilimsel Araştırma Yöntemleri ve Yayın Etiği, Undergraduate Double Major, 2021-2022

Supervised Theses

GÜNGÖR ÇELİK A., Evaporatif Soğutmalı Binary Jeotermal Enerji Santralinin Performansının Ekserji Analizi ile Değerlendirilmesi, Postgraduate, A.ŞİMŞEK(Student), 2025

Articles

I. **Thermoeconomic and Environmental Impact Analysis of a Binary Geothermal Power Plant**
Şimşek A., GÜNGÖR ÇELİK A.
Energies, vol.19, no.3, 2026 (SCI-Expanded, Scopus)

II. **Assessing the Effect of Cooling Techniques on Performance Improvement of a Binary Geothermal Power Plant by Using Exergy-Based Analysis**
Şimşek A., GÜNGÖR ÇELİK A.
Processes, vol.13, no.10, 2025 (SCI-Expanded, Scopus)

III. **Energy, Exergy Analysis and Sustainability Assessment of a Thermal Power Plant Operating in Various Environmental Conditions Using Real Operational Data**
GÜNGÖR ÇELİK A., Aydemir U.
Sustainability (Switzerland), vol.17, no.4, 2025 (SCI-Expanded, SSCI, Scopus)

IV. **Advanced Exergy Assessment of an Air Source Heat Pump Unit**
Celik A.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.13, no.1, pp.15-22, 2024 (TRDizin)

V. **Assessment of exergy-based performance and sustainability indicators of a sewage water source heat pump system**
Celik A., Hepbaşlı A.
INTERNATIONAL JOURNAL OF EXERGY, vol.43, no.4, 2024 (SCI-Expanded, Scopus)

VI. **Avoidable thermodynamic inefficiencies evaluation of a sewage water source heat pump system**
Celik A., Hepbaşlı A.
INTERNATIONAL JOURNAL OF EXERGY, vol.40, no.4, pp.414-428, 2023 (SCI-Expanded, Scopus)

VII. **Experimental Performance Evaluation of an Asynchronous Engine in Milking Machine**
Celik A.
Muş Alparslan Üniversitesi Fen Bilimler Dergisi, vol.10, no.1, pp.943-946, 2022 (TRDizin)

VIII. **Advanced exergoeconomic analysis of a gas engine heat pump (GEHP) for food drying processes**
Gungor A., Tsatsaronis G., GÜNERHAN H., Hepbaşlı A.
ENERGY CONVERSION AND MANAGEMENT, vol.91, pp.132-139, 2015 (SCI-Expanded, Scopus)

IX. **Enhanced exergy analyses of a gas engine heat pump (GEHP) dryer for medicinal and aromatic plants**
Gungor A., Hepbaşlı A., GÜNERHAN H.
INTERNATIONAL JOURNAL OF EXERGY, vol.18, no.1, pp.1-21, 2015 (SCI-Expanded, Scopus)

X. **Splitting the exergy destruction into avoidable and unavoidable parts of a gas engine heat pump (GEHP) for food drying processes based on experimental values**
Gungor A., Erbay Z., Hepbaşlı A., GÜNERHAN H.
ENERGY CONVERSION AND MANAGEMENT, vol.73, pp.309-316, 2013 (SCI-Expanded, Scopus)

XI. **Exergoeconomic (Thermoeconomic) Analysis and Performance Assessment of a Gas Engine-Driven**

Heat Pump Drying System Based on Experimental Data
Gungor A., Erbay Z., Hepbaşlı A.
DRYING TECHNOLOGY, vol.30, no.1, pp.52-62, 2012 (SCI-Expanded, Scopus)

XII. **Exergoeconomic analyses of a gas engine driven heat pump drier and food drying process**
Gungor A., Erbay Z., Hepbaşlı A.
APPLIED ENERGY, vol.88, no.8, pp.2677-2684, 2011 (SCI-Expanded, Scopus)

XIII. **Exergetic analysis and evaluation of a new application of gas engine heat pumps (GEHPs) for food drying processes**
Gungor A., Erbay Z., Hepbaşlı A.
APPLIED ENERGY, vol.88, no.3, pp.882-891, 2011 (SCI-Expanded, Scopus)

Papers Presented at Peer-Reviewed Scientific Conferences

I. **Exergy- based sustainability analyses of a wastewater source heat pump system**
GÜNGÖR ÇELİK A., HEPBAŞLI A.
19th International Conference on Sustainable Energy Technologies – SET 2022, İstanbul, Turkey, 16 August 2022, (Full Text)

II. **GAZ TAHRİKLİ ISI POMPALARININ KURUTMADA KULLANIMININ DENEYSEL İNCELENMESİ**
GÜNGÖR ÇELİK A., GÜNERHAN H., HEPBAŞLI A.
11. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Turkey, 12 April 2013, (Full Text)

Funded Projects

GÜNGÖR ÇELİK A., Fidan U., TUBITAK Project, Güneş Paneli Temizleme Mekanizması İmalatı ve Performansının Değerlendirilmesi, 2022 - 2023
GÜNGÖR ÇELİK A., AYDIN M., İLMAN M. M., ÇAŞKA S., Project Supported by Higher Education Institutions, Hava Kaynaklı Bir Isı Pompası Sisteminin Tasarımı ve Performansının İleri Ekserji Analizi İle Değerlendirilmesi, 2022 - 2023

Metrics

Publication: 15
Citation (WoS): 272
Citation (Scopus): 280
H-Index (WoS): 6
H-Index (Scopus): 5