

## Assoc. Prof. YILDIZ KALINCI

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: P-3244-2019

ScopusID: 23477781600

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### Education Information

Post Doctorate, Ontario Tech University, Mühendislik Fakültesi, Makine Mühendisliği, Canada  
2015 - 2016

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Termodinamik (Dr), Turkey 2007 - 2011

Postgraduate, Dokuz Eylül University, Fen Bilimleri Enstitüsü, Enerji (YI) (Tezli), Turkey 2003  
- 2006

Undergraduate, Dokuz Eylül University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü,  
Turkey 1988 - 1993

### Dissertations

Doctorate, Biyokütle Esaslı Hidrojen Üretim Sistemlerinin Eksergoekonomik Analizi ve Yaşam Döngüsü  
Değerlendirilmesi, Ege University, Fen Bilimleri Enstitüsü, Termodinamik (Dr), 2011

Postgraduate, Dikili'de Jeotermal Bölgesel Isıtma Sisteminin Araştırılması, Dokuz Eylül University, Fen Bilimleri Enstitüsü,  
Enerji (YI) (Tezli), 2006

### Research Areas

Mechanical Engineering, Energy, Thermodynamics

### Academic Titles / Tasks

Expert, Akdeniz University, Teknik Bilimler Meslek Yüksekokulu, Teknik Programlar Bölümü, 1996 - 1997

### Academic and Administrative Experience

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Dokuz Eylül University, İzmir Meslek Yüksekokulu, İnşaat Bölümü, 2019 - Continues  
Program Koordinatörü, Dokuz Eylül University, İzmir Meslek Yüksekokulu, İnşaat Bölümü, 1999 - 2008

## Courses

Genel Termodinamik, Postgraduate, 2021 - 2022  
ISITMA SİSTEMLERİ 1, Associate Degree, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014, 2012 - 2013  
SIHHİ TESİSAT 2, Associate Degree, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014, 2012 - 2013  
TERMODİNAMİK II, Undergraduate, 2016 - 2017  
TESİSATTA BİLGİSAYAR DESTEKLİ ÇİZİM, Associate Degree, 2014 - 2015, 2013 - 2014, 2012 - 2013  
SIHHİ TESİSAT 1, Associate Degree, 2014 - 2015, 2013 - 2014, 2012 - 2013  
ISITMA SİSTEMLERİ 2, Associate Degree, 2014 - 2015, 2013 - 2014, 2012 - 2013  
YENİLENEBİLİR ENERJİ UYGULAMALARI, Associate Degree, 2014 - 2015, 2012 - 2013  
TERMODİNAMİK, Associate Degree, 2012 - 2013, 2011 - 2012

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Thermodynamic analysis of a supercritical CO<sub>2</sub> Brayton cycle integrated with solid oxide fuel cell**  
Beygul S., KALINCI Y.  
International Journal of Hydrogen Energy, vol.67, pp.933-941, 2024 (SCI-Expanded)
- II. **Analysis and performance assessment of NH<sub>3</sub> and H-2 fed SOFC with proton-conducting electrolyte**  
KALINCI Y., Dincer I.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.11, pp.5795-5807, 2018 (SCI-Expanded)
- III. **Energy and exergy analyses of a hybrid hydrogen energy system: A case study for Bozcaada**  
KALINCI Y., Dincer I., HEPBAŞLI A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.4, pp.2492-2503, 2017 (SCI-Expanded)
- IV. **Techno-economic analysis of a stand-alone hybrid renewable energy system with hydrogen production and storage options**  
KALINCI Y., HEPBAŞLI A., Dincer I.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.24, pp.7652-7664, 2015 (SCI-Expanded)
- V. **Alternative energy scenarios for Bozcaada island, Turkey**  
KALINCI Y.  
Renewable and Sustainable Energy Reviews, vol.45, pp.468-480, 2015 (SCI-Expanded)
- VI. **Performance assessment of hydrogen production from a solar-assisted biomass gasification system**  
KALINCI Y., HEPBAŞLI A., Dincer I.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.38, no.14, pp.6120-6129, 2013 (SCI-Expanded)
- VII. **Exergoeconomic analysis and performance assessment of hydrogen and power production using different gasification systems**  
KALINCI Y., HEPBAŞLI A., Dincer I.  
FUEL, vol.102, pp.187-198, 2012 (SCI-Expanded)
- VIII. **Exergoeconomic analysis of hydrogen production from biomass gasification**  
KALINCI Y., HEPBAŞLI A., Dincer I.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.37, no.21, pp.16402-16411, 2012 (SCI-Expanded)
- IX. **Life cycle assessment of hydrogen production from biomass gasification systems**  
KALINCI Y., HEPBAŞLI A., Dincer I.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.37, no.19, pp.14026-14039, 2012 (SCI-Expanded)
- X. **Comparative exergetic performance analysis of hydrogen production from oil palm wastes and some other biomasses**

- KALINCI Y., Hepbasli A., Dincer I.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.36, no.17, pp.11399-11407, 2011 (SCI-Expanded)
- XI. **Exergoeconomic analysis of hydrogen production from plasma gasification of sewage sludge using specific exergy cost method**  
KALINCI Y., Hepbasli A., Dincer I.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.36, no.17, pp.11408-11417, 2011 (SCI-Expanded)
- XII. **Exergetic performance assessment of gasification and pyrolysis processes of pre-treated wood board wastes**  
KALINCI Y., Hepbasli A., Dincer I.  
INTERNATIONAL JOURNAL OF EXERGY, vol.8, no.1, pp.99-112, 2011 (SCI-Expanded)
- XIII. **Efficiency assessment of an integrated gasifier/boiler system for hydrogen production with different biomass types**  
KALINCI Y., Hepbasli A., Dincer I.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.10, pp.4991-5000, 2010 (SCI-Expanded)
- XIV. **Biomass-based hydrogen production: A review and analysis**  
KALINCI Y., Hepbasli A., Dincer I.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.34, no.21, pp.8799-8817, 2009 (SCI-Expanded)
- XV. **A review of heat pump water heating systems**  
Hepbasli A., KALINCI Y.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.13, pp.1211-1229, 2009 (SCI-Expanded)
- XVI. **Performance assessment of a geothermally heated building**  
KALINCI Y., Balta M. T., Hepbasli A.  
ENERGY POLICY, vol.37, no.4, pp.1502-1508, 2009 (SCI-Expanded)
- XVII. **Evaluating a low exergy heating system from the power plant through the heat pump to the building envelope**  
Balta M. T., KALINCI Y., Hepbasli A.  
ENERGY AND BUILDINGS, vol.40, no.10, pp.1799-1804, 2008 (SCI-Expanded)
- XVIII. **Determination of optimum pipe diameter along with energetic and exergetic evaluation of geothermal district heating systems: Modeling and application**  
KALINCI Y., Hepbasli A., Tavman I.  
ENERGY AND BUILDINGS, vol.40, no.5, pp.742-755, 2008 (SCI-Expanded)

## **Books & Book Chapters**

### **I. Waste Energy Management**

KALINCI Y., Dincer I.

in: Comprehensive Energy Systems, Ibrahim Dincer, Editor, Elsevier Inc., pp.91-133, 2018

### **II. Exergetic Performance Assessment of a Binary Geothermal Power Plant**

KALINCI Y., HEPBAŞLI A., DİNÇER İ.

in: Progress in Exergy Energy and the Environment, Ibrahim Dincer; Adnan Midilli; Haydar Küçük, Editor, Springer International Publishing, pp.23-32, 2014

## **Refereed Congress / Symposium Publications in Proceedings**

### **I. Analysis and Performance Assessment of NH<sub>3</sub> and H<sub>2</sub> fed SOFC with Proton-Conducting Electrolyte**

KALINCI Y., Dincer I.

9 th International Exergy, Energy and Environment Symposium, (IEEES-9), 14 - 17 May 2017

### **II. BOZCAADA HİBRİTLİ HİDROJEN ENERJİ SİSTEMİNİN ENERJİ VE EKSERJİ ANALİZİ**

KALINCI Y., Ibrahim D., HEPBAŞLI A.

Ulusal Hidrojen Teknolojileri Kongresi, İstanbul, Turkey, 20 - 23 December 2015

- III. **Economic assessment of a renewable energy system for hydrogen and electricity production on the Bozcaada island**  
KALINCI Y., HEPBAŞLI A., DİNÇER İ.  
The 13th International Conference on Clean Energy (ICCE-2014), İstanbul, Turkey, 8 - 12 June 2014, pp.1521-1530
- IV. **Exergetic performance assessment of a binary geothermal power plant**  
KALINCI Y., HEPBAŞLI A., DİNÇER İ.  
The Sixth International Exergy, Energy and Environment Symposium (IEEES6), Rize, Turkey, 1 - 04 July 2013, pp.827-837
- V. **PERFORMANCE INVESTIGATION OF GEOTHERMAL DISTRICT HEATING SYSTEMS**  
KALINCI Y., Tavman I., HEPBAŞLI A.  
ICHMT International Symposium on Sustainable Energy in Buildings and Urban Areas, Kusadasi, Turkey, 1 - 06 July 2012
- VI. **Exergoeconomic analysis of hydrogen production from biomass gasification**  
KALINCI Y., HEPBAŞLI A., DİNÇER İ.  
International Conference on Hydrogen Production (ICH2P -11), SELANİK, Greece, 19 - 22 June 2011
- VII. **Exergoeconomic analysis of hydrogen production from plasma gasification of sewage sludge using specific exergy cost SPECOC method**  
KALINCI Y., HEPBAŞLI A., DİNÇER İ.  
International Conference on Hydrogen Production with Emphasis on Storage and Safety (ICH2P-2010), İstanbul, Turkey, 16 - 18 June 2010, pp.73-89
- VIII. **Comparative exergetic performance analysis of hydrogen production from oil palm wastes and some other biomasses**  
KALINCI Y., HEPBAŞLI A., DİNÇER İ.  
International Conference on Hydrogen Production with Emphasis on Storage and Safety (ICH2P-2010), İstanbul, Turkey, 16 - 18 June 2010, pp.402-411
- IX. **Exergetic performance comparison of gasification and pyrolysis processes**  
KALINCI Y., HEPBAŞLI A., DİNÇER İ.  
Global Conference on Global Warming-2009 (GCGW-2009), İstanbul, Turkey, 5 - 09 July 2009, pp.928-940
- X. **Exergetic assessment of an integrated gasifier boiler system for hydrogen production with different biomass types**  
KALINCI Y., HEPBAŞLI A., DİNÇER İ.  
International Conference on Hydrogen Production-2009 (ICH2P-09), Oshawa, Canada, 3 - 06 May 2009, pp.294-307

## Scientific Refereeing

TÜBİTAK International Bilateral Joint Cooperation Program Project, Korean National Research Foundation, NRF Bilateral Joint Cooperation Program, Inje Universitesi, South Korea, October 2021

TÜBİTAK International Bilateral Joint Cooperation Program Project, Korean National Research Foundation, NRF Bilateral Joint Cooperation Program, South Korea, October 2021

TÜBİTAK International Bilateral Joint Cooperation Program Project, Ministry of Innovative Development of the Republic of Uzbekistan, MID Uzbekistan Bilateral Joint Cooperation Program, Özbekistan Fizik Teknik Enstitüsü, Uzbekistan, October 2021

## Metrics

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