



## **Yrd. Doç. Dr. Ceyhun Yılmaz**

Afyon Kocatepe Üniversitesi  
Teknoloji Fakültesi  
Makina Mühendisliği Bölümü  
Tel: 0506 3162201, 0272 228 14 46  
Faks: 0272 228 14 49  
Email: ceyhunyilmaz16@gmail.com

### **Öğrenim Durumu**

Derece	Alan	Üniversite	Yıl
Lisans	Makina Mühendisliği (İngilizce)	Gaziantep Üniversitesi	2009
Y. Lisans	Makina Mühendisliği (İngilizce)	Gaziantep Üniversitesi	2011
Doktora	Makina Mühendisliği (İngilizce)	Gaziantep Üniversitesi	2015

### **Akademik Unvanlar ve Çalışma Tecrübesi**

Unvan	Alan	Üniversite	Yıl
Araş. Gör.	Makina Mühendisliği	Gaziantep Üniversitesi	2010-2016
Yrd. Doç. Dr.	Makina Mühendisliği	Afyon Kocatepe Üniversitesi	2017

### **Bitirilen Tezler**

1. Yılmaz, C., “Thermodynamic and economic analysis of geothermal energy use in hydrogen production and liquefaction”, University of Gaziantep, 2011.
2. Yılmaz, C., “Thermoeconomic design and optimization of geothermal energy use in hydrogen production and liquefaction”, University of Gaziantep, 2015.

### **Projeler**

1. Bursiyer. TÜBİTAK, 113M207. “Jeotermal Enerjinin Hidrojen Üretimi ve Sıvılaştırılmasında Kullanımının Termoekonomik Analizi, Optimizasyonu ve Yaşam Döngü Maliyet Analizi”, 2013- 2015. (Doktora tezi)
2. Bursiyer. TÜBİTAK, 108M226. “Jeotermal Enerjinin Hidrojen Üretimi ve Sıvılaştırılmasında Kullanımının Termodinamik ve Ekonomik Analizi”, 2008-2010. (Yüksek Lisans tezi)

## **Bilimsel Kuruluşlara Üyelikler**

Türk Isı Bilimi ve Tekniği Derneği  
American Society of Mechanical Engineers, ASME

## **Hakemlik Yapılan Dergiler**

1. International Journal of Exergy
2. International Journal of Hydrogen Energy
3. Energy Conversion and Management
4. Energy

## **Araştırma Alanları**

Termodinamik  
Enerji verimliliği  
İçten yanmalı motorlar  
Yenilenebilir enerji kaynakları  
Jeotermal enerji  
Hidrojen üretimi ve sıvılaştırması

## **Lisans ve lisansüstü eğitimde asistanlık yaptığı dersler**

### ***Lisans Dersleri***

Termodinamik (Thermodynamics)  
Isı Transferi (Heat Transfer)  
Isıtma, Soğutma ve Havalandırma (Heating Ventilating and Air-Conditioning)  
İçten Yanmalı Motorlar (Internal Combustion Engines)  
Enerji Yönetimi (Energy Management)  
Isıl Güç Mühendisliği (Thermal Power Engineering)  
Soğutma (Refrigeration)

### ***Lisansüstü Dersler***

İleri Termodinamik (Advanced Thermodynamics)  
İleri İçten Yanmalı Motorlar (Advanced Internal Combustion Engines)

## **Atıflar**

*Web of Science'a göre*  
Toplam atıf sayısı (Temmuz 2016) = 81+  
h-index = 5

## Yayınlar

### SCI kapsamında uluslararası hakemli dergilerde yayınlanan makaleler

1. Yılmaz C. Thermoeconomic modeling and optimization of a hydrogen production system using geothermal energy. *Geothermics*. DOI: 10.1016/j.geothermics.2016.08.008.
2. Kanoglu M, Yılmaz C, Abusoglu A. “Geothermal Energy Use in Absorption Precooling for Claude Hydrogen Liquefaction Cycle” *International Journal of Hydrogen Energy*, DOI: 10.1016/j.ijhydene.2016.04.068.
3. Yılmaz C, Kanoglu M, Abusoglu A. “Exergetic Cost Evaluation of Hydrogen Production Powered by Combined Flash-Binary Geothermal Power Plant” *International Journal of Hydrogen Energy*,40, 14021-14030 (2015).
4. Yılmaz C, Kanoglu M, Abusoglu A. “Thermoeconomic Cost Evaluation of Hydrogen Production Driven by Binary Geothermal Power Plant” *Geothermics* 57, 18–25 (2015).
5. Yılmaz C, Kanoglu M. “Thermodynamic evaluation of geothermal energy powered hydrogen production by PEM water electrolysis” *Energy* 69, 592-602 (2014).
6. Yılmaz C, Kanoglu M, Bolatturk A, Gadalla M. “Economics of hydrogen production and liquefaction by geothermal energy” *International Journal of Hydrogen Energy* 37(2), 2058-2069 (2012).
7. Kanoglu M, Bolatturk A, Yılmaz C. “Thermodynamic Analysis of Models Used In Hydrogen Production By Geothermal Energy” *International Journal of Hydrogen Energy* 35, 8783-8791 (2010).

### Diğer uluslararası hakemli dergilerde yayınlanan makaleler

1. Kanoglu M, Yılmaz C, Abusoglu A. “Geothermal Energy Use in Hydrogen Production” *Journal of Thermal Engineering*. Vol. 2, No. 2, pp. 699-708, April, 2016.
2. Yılmaz C, Kanoglu M, Abusoglu A. “Thermodynamic And Thermoeconomic Analyses Of Hydrogen Liquefaction Cycle Assisted By Geothermal Energy” *Strojarstvo Journal* (Article in press) ( 2015).
3. Yılmaz C, Kanoglu M, Abusoglu A. “Thermoeconomic Optimization of Hydrogen Production by A Flash-Binary Geothermal Power Plant” *International Journal of Energy Applications and Technology*” (Article in press) (2015)

### SCI, SCI-Expanded, SSCI ve AHCI kapsamında basılmış diğer yayınlar (bildiri, vaka takdimi, editöre not... vb.)

1. Kanoglu M, Yılmaz C, “Thermal Design of Alkaline Water Electrolysis Assisted by Combined Flash Binary Geothermal Power Plant” *Proceedings of the ASME, Volume 6A Energy*, doi:10.1115/IMECE2013-62671.

### Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (*Proceedings*) basılan bildiriler

1. Yılmaz C, Kanoglu M, “Thermoeconomic Optimization of an Integrated System with Absorption Cooling, Geothermal Binary, and Claude Cycles” *Conference on Advances in Mechanical Engineering Istanbul 2016 – ICAME2016*. 11-13 May 2016, Yıldız Technical University, Istanbul, Turkey.
2. Çetin T.H, Öztürkmen B, Yılmaz C, Kanoğlu M, “Performance Analysis and Comparison of Gas Liquefaction Cycles” *Conference on Advances in Mechanical Engineering Istanbul 2016 – ICAME2016*. 11-13 May 2016, Yıldız Technical University, Istanbul, Turkey.
3. Yılmaz C, Kanoglu M, “Thermodynamic and Economic Investigation of Geothermal Powered Absorption Cooling System for Buildings” *The 8th Mediterranean Congress of Heating Ventilation and Air-Conditioning*

(Climamed 2015), 9-11 September 2015, Paris, France.

4. Yilmaz C, Kanoglu M, Abusoglu A, "Thermoeconomic Optimization of Hydrogen Production by a Flash-Binary Geothermal Power Plant" International Conference on Advanced Technology & Sciences (ICAT'15), 4-7 August 2015, Antalya, Turkey.
5. Yilmaz C, Kanoglu M, Abusoglu A, "Geothermal Energy Use in Hydrogen Production" International Conference on Advances in Mechanical Engineering (ICAME-2015). İstanbul, Turkey.
6. Yilmaz C, Kanoglu M, Abusoglu A, "Thermoeconomic Optimization of Hydrogen Production and Liquefaction by Geothermal Power" 7th International Exergy, Energy and Environment Symposium (IEEES'7-2015), UVHC, ENSIAME, Valenciennes, France (April 27-30, 2015).
7. Yilmaz C, Kanoglu M, Abusoglu A, "Thermoeconomic Assessment of a Geothermal Powered Hydrogen Gas Liquefaction System", Energy Technologies Conference ENTECH'14, 22-24 December 2014, Istanbul, Turkey.
8. Yilmaz C, Kanoglu M, Abusoglu A, "Thermoeconomic Assessment of a Geothermal Powered Hydrogen Production System", 2nd International Congress on Energy Efficiency and Energy Related Materials (ENEFM2014), October 16-19, 2014, Oludeniz, Turkey.
9. Yilmaz C, Kanoglu M, Abusoglu A, "Jeotermal Güç Kullanan Bir Alkali Elektroliz Ünitesinden Hidrojen Üretiminin Termodinamik Analizi", 11<sup>th</sup> International HVAC+R Technology Symposium, Proceedings: p. 231-239, May 8-10, 2014, Istanbul, Turkey.
10. Yilmaz C, Kanoglu M, Abusoglu A, "Thermoeconomic Cost Evaluation of Hydrogen Production Driven by Binary Geothermal Power Plant", The Second International Conference on Sustainable Systems and the Environment (ISSE 2014), February 12-13, 2014, American University of Sharjah, Sharjah, UAE.
11. Kanoglu M, Yilmaz C, "Thermal Design of Alkaline Water Electrolysis Assisted by Combined Flash Binary Geothermal Power Plant", Proceedings of the ASME, 2013 International Mechanical Engineering Congress & Exposition (IMECE 2013), November 13-21, 2013, San Diego, California, USA.
12. Yilmaz C, Kanoglu M, "Thermodynamic Performance Analysis of Hydrogen Production by PEM Water Electrolysis Powered by Geothermal Energy", The 2<sup>nd</sup> International Conference on Water, Energy and the Environment, Sep. 21-24, 2013, Kusadasi, Turkey.
13. Yilmaz C, Demir S, Abusoglu A, "A Comparison of Exergoeconomic Methodologies for a Binary Geothermal Power Plant" Global Conference on Global Warming-2012 (GCGW-12), 8-12 July 2012, İstanbul, Turkey.
14. Yilmaz C, Kanoglu M, "Energy and exergy analysis of hydrogen production by PEM water electrolysis powered by geothermal energy", 6<sup>th</sup> International Ege Energy Symposium & Exhibition, IESE-12, June 28-30, 2012, Izmir, Turkey.
15. Kanoglu M., Yilmaz C., Bolatturk A. "Economics of Hydrogen Production and Liquefaction by Geothermal Energy", 10th International Conference on Clean Energy (ICCE-2010), September 15-17, 2010, Famagusta, N. Cyprus.
16. Kanoglu M., Yilmaz C., Bolatturk A. "Thermodynamic Analysis of Models Used in Hydrogen Production by Geothermal Energy", 5th International Ege Energy Symposium and Exhibition (IESE-5), June 27-30, 2010, Denizli/Turkey.
17. Kanoglu M., Yilmaz C., Bolatturk A. "Hydrogen Production and Liquefaction by Geothermal Heat and Power", International Conference on Hydrogen Production With Emphasis on Storage and Safety - ICH2P 2010, June 16 -18, Istanbul Technical University, Istanbul, Turkey.

#### **Ulusal hakemli dergilerde yayınlanan makaleler**

1. Yilmaz C, Kanoglu M, Abusoglu A. "Jeotermal Destekli Amonyak Su Absorpsiyonlu Soğutma Sisteminin Bilgisayar Ortamında Modellenmesi", TTMD, Cilt 90, Mart-Nisan, 27-33 (2015)

#### **Ulusal bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler**

1. Yilmaz C, Kanoglu M, Abusoglu A, Jeotermal Enerji ile Hidrojen Sıvılaştırma Sisteminin Termoekonomik Analiz ve Optimizasyonu, 20. Ulusal Isı Bilimi Ve Tekniği Kongresi, 2-5 Eylül 2015 (ULIBTK'15), Balıkesir.
2. Yilmaz C, Kanoglu M, Abusoglu A, Jeotermal Destekli Hidrojen Sıvılaştırma Çevriminin Termodinamik Ve

Termoekonomik Analizi, 12. Ulusal Tesisat Mühendisliği Kongresi Ve Sodex, 8-11 Nisan 2015, İzmir.

3. Yilmaz C, Kanoglu M, Abusoglu A, Jeotermal Destekli Amonyak Su Absorpsiyonlu Soğutma Sisteminin Bilgisayar Ortamında Modellenmesi, 2. Ulusal İklimlendirme Soğutma Eğitimi Sempozyumu ve Sergisi, 23-25 Ekim 2014, Balıkesir.
4. Yilmaz C, Kanoglu M, Bolatturk A, Jeotermal Enerji ile Hidrojen Üretilmesi ve Sıvılaştırılması, Tesisat Kongresi TESKON 2011, 13-16 Nisan, 2011, İzmir.