



Assistant Professor Ceyhun Yilmaz

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Technology Faculty
Mechanical Engineering Department
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Education status

Degree	Alan	Üniversite	Yıl
bachelor science	Mechanical Engineering (English)	Gaziantep Üniversitesi	2009
Master science	Mechanical Engineering (English)	Gaziantep Üniversitesi	2011
Ph.D.	Mechanical Engineering (English)	Gaziantep Üniversitesi	2015

Academic Titles and Work Experience

Title	Alan	Üniversite	Yıl
Res. Ass.	Mechanical Engineering	University of Gaziantep	2010-2016
Ass. Prof. Dr.	Mechanical Engineering	Afyon Kocatepe University	2017

Completed Theses

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

Projects

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)

Memberships in Scientific Organizations

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

Refereed Journals

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

Research Areas

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)

Citations

Web of Science'a göre

Toplam atıf sayısı (November 2017) = 151+

h-index = 7

Publications

SCI kapsamında uluslararası hakemli dergilerde yayınlanan makaleler

1. Yilmaz, C. (2017). Thermodynamic and economic investigation of geothermal powered absorption cooling system for buildings. *Geothermics*, 70, 239-248.
2. Yilmaz C. Thermoeconomic modeling and optimization of a hydrogen production system using geothermal energy. *Geothermics*. DOI: 10.1016/j.geothermics.2016.08.008.
3. Kanoglu M, Yilmaz 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.
4. Yilmaz 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).
5. Yilmaz C, Kanoglu M, Abusoglu A. "Thermoeconomic Cost Evaluation of Hydrogen Production Driven by Binary Geothermal Power Plant" *Geothermics* 57, 18–25 (2015).
6. Yilmaz C, Kanoglu M. "Thermodynamic evaluation of geothermal energy powered hydrogen production by PEM water electrolysis" *Energy* 69, 592-602 (2014).
7. Yilmaz 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).
8. Kanoglu M, Bolatturk A, Yilmaz 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, Yilmaz C, Abusoglu A. "Geothermal Energy Use in Hydrogen Production" *Journal of Thermal Engineering*. Vol. 2, No. 2, pp. 699-708, April, 2016.
2. Yilmaz C, Kanoglu M, Abusoglu A. "Thermodynamic And Thermoeconomic Analyses Of Hydrogen Liquefaction Cycle Assisted By Geothermal Energy" *Strojarstvo Journal* (Article in press) (2015).
3. Yilmaz 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, Yilmaz 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. Yilmaz 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, Yildiz 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, Yildiz 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. Yılmaz 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. Yılmaz C, Kanoglu M, Abusoglu A, “Geothermal Energy Use in Hydrogen Production” International Conference on Advances in Mechanical Engineering (ICAME-2015). İstanbul, Turkey.
6. Yılmaz 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. Yılmaz 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. Yılmaz 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. Yılmaz C, Kanoglu M, Abusoglu A, “Jeotermal Güç Kullanan Bir Alkali Elektroliz Ünitesinden Hidrojen Üretiminin Termodinamik Analizi”, 11th International HVAC+R Technology Symposium, Proceedings: p. 231-239, May 8-10, 2014, Istanbul, Turkey.
10. Yılmaz 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, Yılmaz 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. Yılmaz C, Kanoglu M, “Thermodynamic Performance Analysis of Hydrogen Production by PEM Water Electrolysis Powered by Geothermal Energy”, The 2nd International Conference on Water, Energy and the Environment, Sep. 21-24, 2013, Kusadasi, Turkey.
13. Yılmaz 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. Yılmaz C, Kanoglu M, “Energy and exergy analysis of hydrogen production by PEM water electrolysis powered by geothermal energy”, 6th International Ege Energy Symposium & Exhibition, IESE-12, June 28-30, 2012, Izmir, Turkey.
15. Kanoglu M., Yılmaz 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., Yılmaz C., Bolatturk A. “Thermodynamic Analysis of Models Used in Hydrogen Production by Geothermal Energy”, 5th International Ege Energy Symposium and Exhibition (IEESE-5), June 27-30, 2010, Denizli/Turkey.
17. Kanoglu M., Yılmaz 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. Yılmaz 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. Yılmaz C, Kanoglu M, Abusoglu A, Jeotermal Enerji ile Hidrojen Sıvılaştırma Sisteminin Termoekonomik Analiz ve Optimizasyonu, 20. Ulusal Isı Bilimi Ve Tekniđi Kongresi, 2-5 Eylül 2015 (ULIBTK'15), Balıkesir.
2. Yılmaz C, Kanoglu M, Abusoglu A, Jeotermal Destekli Hidrojen Sıvılaştırma Çevriminin Termodinamik Ve Termoekonomik Analizi, 12. Ulusal Tesisat Mühendisliđi Kongresi Ve Sodex, 8-11 Nisan 2015, İzmir.
3. Yılmaz C, Kanoglu M, Abusoglu A, Jeotermal Destekli Amonyak Su Absorpsiyonlu Sođutma Sisteminin Bilgisayar Ortamında Modellenmesi, 2. Ulusal İklimlendirme Sođutma Eđitimi Sempozyumu ve Sergisi, 23-25 Ekim 2014, Balıkesir.
4. Yılmaz C, Kanoglu M, Bolatturk A, Jeotermal Enerji ile Hidrojen Üretilmesi ve Sıvılaştırılması, Tesisat Kongresi TESKON 2011, 13-16 Nisan, 2011, İzmir.