

**Dr. Öğr. Üyesi Fatih
SORGULU**

Kişisel Bilgiler

Web: <https://linktr.ee/fatih.sorgulu>

Posta Adresi: Makine

Mühendisliği Bölümü, Yıldız,

Beşiktaş, İstanbul

Uluslararası Araştırmacı ID'leri

ScholarID: GXGTtp8AAAAJ

ORCID: 0000-0003-2734-106X

Publons / Web Of Science

ResearcherID: T-5811-2017

ScopusID: 57196219920

Yoksis Araştırmacı ID: 41432

Biyografi

Linkler:

Eğitim Bilgileri

2016 - 2023	Doktora, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği/Enerji Doktora Programı, Türkiye
2014 - 2016	Yüksek Lisans, Yalova Üniversitesi, Mühendislik Fakültesi, Enerji Sistemleri Mühendisliği , Türkiye
2007 - 2013	Lisans, Erciyes Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği , Türkiye

Yaptığı Tezler

2023	Entegre Sistemler Kullanılarak Yeşil Hidrojen Üretimi ve Doğal Gaz ile Karıştırılması üzerine Deneysel ve Modelleme Çalışmaları, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği/Enerji Doktora Programı , Doktora
2016	Polimer Elektrolit Membranlı Yakıt Hücresi için Model Geliştirilmesi ve COMSOL Programı ile Simülasyonu, Yalova Üniversitesi, Mühendislik Fakültesi , Enerji Sistemleri Mühendisliği , Yüksek Lisans

Araştırma Alanları

Makina Mühendisliği, Enerji, Alternatif Enerji Kaynakları, Enerji depolama teknolojileri, Güneş Enerjisi, Hidrojen teknolojileri ve yakıt hücreleri, Rüzgar Enerjisi, Termodinamik, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Effect of burner head geometry on flame dispersion in gas stoves with hydrogen and natural gas blends**
SORGULU F., ÖZTÜRK M., JAVANI N., DİNCER İ.
Process Safety and Environmental Protection, cilt.183, ss.1135-1151, 2024 (SCI-Expanded)
- II. **Experimental investigation of various burner heads in residential gas stoves tested with hydrogen and natural gas blends**
ÖZTÜRK M., SORGULU F., JAVANI N., DİNCER İ.
International Journal of Hydrogen Energy, cilt.53, ss.1344-1349, 2024 (SCI-Expanded)
- III. **Experimental investigation for combustion performance of hydrogen and natural gas fuel blends**
SORGULU F., ÖZTÜRK M., JAVANI N., DİNCER İ.
International Journal of Hydrogen Energy, cilt.48, sa.88, ss.34476-34485, 2023 (SCI-Expanded)
- IV. **Development of an integrated thermochemical cycle-based hydrogen production and effective utilization**
SORGULU F., DİNCER İ.
International Journal of Hydrogen Energy, cilt.48, sa.71, ss.27502-27512, 2023 (SCI-Expanded)
- V. **An experimental study on the environmental impact of hydrogen and natural gas blend burning**
Öztürk M., Sorgulu F., Javani N., Dincer I.
Chemosphere, cilt.329, 2023 (SCI-Expanded)
- VI. **A solar energy driven thermochemical cycle based integrated system for hydrogen production**
Sorgulu F., Dincer İ.
Energy, cilt.269, 2023 (SCI-Expanded)
- VII. **Development and performance assessment of a calcium-iron bromide cycle-based hydrogen production integrated system**
SORGULU F., DİNCER İ.
Energy Conversion and Management, cilt.277, 2023 (SCI-Expanded)
- VIII. **Thermoeconomic and impact assessments of trigeneration systems with various fuels**
Sorgulu F., Dincer İ.
FUEL, cilt.317, 2022 (SCI-Expanded)
- IX. **Development and assessment of renewable hydrogen production and natural gas blending systems for use in different locations**
Sorgulu F., Dincer İ.
ENERGY SCIENCE & ENGINEERING, cilt.10, sa.5, ss.1739-1751, 2022 (SCI-Expanded)
- X. **Analysis and techno-economic assessment of renewable hydrogen production and blending into natural gas for better sustainability**
SORGULU F., DİNCER İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.47, sa.46, ss.19977-19988, 2022 (SCI-Expanded)
- XI. **A new experimentally developed integrated organic Rankine cycle plant**
Sorgulu F., Akgul M. B., Cebeci E., Yilmaz T. O., Dincer I.
APPLIED THERMAL ENGINEERING, cilt.187, 2021 (SCI-Expanded)
- XII. **Development and assessment of a biomass-based cogeneration system with desalination**
SORGULU F., DİNCER İ.
APPLIED THERMAL ENGINEERING, cilt.185, 2021 (SCI-Expanded)
- XIII. **Development of a hythane based cogeneration system integrated with gasification and landfill subsystems**
SORGULU F., DİNCER İ.
Energy, cilt.215, 2021 (SCI-Expanded)

- XIV. **Design and analysis of a solar tower power plant integrated with thermal energy storage system for cogeneration**
Sorgulu F., Dincer İ.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.43, sa.12, ss.6151-6160, 2019 (SCI-Expanded)
- XV. **Cost evaluation of two potential nuclear power plants for hydrogen production**
Sorgulu F., Dincer İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.43, sa.23, ss.10522-10529, 2018 (SCI-Expanded)
- XVI. **A renewable source based hydrogen energy system for residential applications**
Sorgulu F., Dincer İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.43, sa.11, ss.5842-5851, 2018 (SCI-Expanded)
- XVII. **Thermodynamic analyses of a solar-based combined cycle integrated with electrolyzer for hydrogen production**
SORGULU F., DİNCER İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.43, sa.2, ss.1047-1059, 2018 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Hidrojen ve Doğal Gaz Karışımının Evsel Cihazlarda Kullanımının Deneysel ve Teorik Olarak İncelenmesi**
Sorgulu F., Öztürk M., Javani N., Dinçer İ.
Cihannüma Teknoloji Fen ve Mühendislik Bilimleri Akademi Dergisi, cilt.1, ss.23-38, 2022 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **A geothermal energy-based thermochemical cycle integrated with a cement factory for carbon capture for methane production**
SORGULU F., DİNCER İ.
Global Conference on Global Warming (GCGW-2023), İstanbul, Türkiye, 14 - 16 Haziran 2023
- II. **A Geothermal Driven Thermochemical Cycle Based Integrated System for Hydrogen Production and Effective Utilization**
SORGULU F., DİNCER İ.
The 7th International Hydrogen Technologies Congress (IHTEC-2023), 10-12 May, Elazığ, Türkiye, 10 - 12 Mayıs 2023
- III. **Assessment of Trigeneration Energy Systems with Storage Options**
SORGULU F., DİNCER İ., JAVANI N., ÖZTÜRK M.
The 2nd World Energy Storage Conference (WESC-2022), İstanbul, Türkiye, 18 - 21 Aralık 2022
- IV. **A Hybrid Sulfur-Bromine Cycle-Based Hydrogen Production and Utilization for Residential Purposes by Blending with Natural Gas**
SORGULU F., DİNCER İ.
13th International Conference on Hydrogen Production (ICH2P-22), Islamabad, Pakistan, 11 - 14 Aralık 2022
- V. **Assessment of Hydrogen and Natural Gas Blending for Use in Different Locations**
SORGULU F., DİNCER İ.
13th International Exergy, Energy and Environment Symposium (IEEES-13), Mekke, Suudi Arabistan, 14 - 17 Mart 2022
- VI. **A Solar Energy Driven Thermochemical Cycle for Hydrogen Production**
SORGULU F., DİNCER İ.
6th International Hydrogen Technologies Congress (IHTEC-2022), Çanakkale, Türkiye, 23 - 26 Ocak 2022
- VII. **PERFORMANCE ASSESSMENT OF A CALCIUM-IRON BROMIDE CYCLE BASED MULTIGENERATION SYSTEM**

SORGULU F., DİNCER İ.

23rd World Hydrogen Energy Conference: Bridging Continents by H2, WHEC 2022, İstanbul, Türkiye, 26 - 30 Haziran 2022, ss.1042-1043

VIII. Techno-Economic and Environmental Impact Assessments of Trigeneration Systems with Various Fuels

SORGULU F., DİNCER İ.

TUBA World Conference on Energy Science and Technology, August 8-12, 2021, Online, Türkiye, 8 - 12 Ağustos 2021

IX. Analysis of an Ocean and Wind Energy Based Pumped Hydro Storage System

SORGULU F., DİNCER İ.

World Energy Strategies Congress and Exhibition 2019 (WESCE'19), 26 - 28 Ağustos 2019

X. Exergetic Assessment of a Combined Cycle Integrated with Gasification, Anaerobic Digestion, and Distillation Units

Sorgulu F., Dincer İ.

11th International Exergy, Energy and Environment Symposium (IEEES-11), July 14-18, 2019, Chennai, India, Chennai, Hindistan, 14 - 18 Temmuz 2019

XI. Analyses of an Ocean Current and Wind Energy Based Hydrogen Production and Desalination

SORGULU F., DİNCER İ.

4th International Hydrogen Technologies Congress, Edirne, Turkey, 20 - 23 Haziran 2019

XII. Development of a Hythane Based Combined Cycle Integrated with Gasification and Anaerobic Digestion Subsystems

Sorgulu F., Dincer İ.

10th International Conference on Hydrogen Production (ICH2P-2019), Cluj-Napoca, Romania, Cluj-Napoca, Romanya, 15 - 17 Mayıs 2019

XIII. Analysis of an Ocean Current Energy Based Cogenerational System

SORGULU F., DİNCER İ.

8th Global Conference on Global Warming (GCGW-2019), 22 - 25 Nisan 2019

XIV. Exergoenvironmental Analysis of a Solar Tower Based Integrated System: Comparison with Various Fuels

SORGULU F., DİNCER İ.

7th Global Conference on Global Warming (GCGW-2018), İzmir, Türkiye, 24 - 28 Haziran 2018

XV. Thermodynamic and Economic Analyses of a Renewable Energy Based Hydrogen Production System

SORGULU F., DİNCER İ.

3. International Hydrogen Technologies Congress (IHTEC-2018), 15 - 18 Mart 2018

XVI. Design and Analysis of a Solar Tower based Integrated System with Thermal Energy Storage

SORGULU F., DİNCER İ.

14. International Conference on Energy Storage, 25 - 28 Nisan 2018, ss.1065-1070

XVII. A Renewable Energy Based and Integrated Hydrogen Energy System for Residential Applications

SORGULU F., DİNCER İ.

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

XVIII. Computational Modelling And Simulation Of Polymer Electrolyte Membrane Fuel Cell With Comsol

ÇAKMAK M. E., SORGULU F.

INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, İstanbul, Türkiye, 25 - 28 Nisan 2017, cilt.1, ss.594-596

XIX. Nuclear-based Hydrogen Production Cost Evaluation for Two Possible Nuclear Power Plants

SORGULU F., DİNCER İ.

2nd International Hydrogen Technologies Congress (IHTEC-2017), 15 - 18 Mart 2017

XX. Thermodynamic Analyses of a Solar Based Combined Cycle Integrated with Electrolyzer

SORGULU F., DİNCER İ.

2ND INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS, 21 - 23 Aralık 2016

XXI. Deneysel Ve Hesaplamalı Olarak Elde Edilen Isı Transferi Verileri Arasındaki Farklılıkların

Belirlenmesi

Soylu E., Coşkun C., SORGULU F., ÇAKMAK M. E., MERT M. S.

20. Ulusal Isı Bilimi Ve Tekniği Kongresi, Balıkesir, Türkiye, 02 Eylül 2015 - 05 Eylül 2016

XXII. Simulation of Single Phase Flow in 2 D Porous Media Implications for Water Management in PEMFCs

SORGULU F., ÇAKMAK M. E.

4th Renewable Energy Systems Winter School, Afyon, 15 - 18 Ocak 2015

XXIII. Pore Scale Simulation of Fluid Flow and Mass Transport in Energy Related Systems

SORGULU F., ÇAKMAK M. E.

Turkish - German Conference on Energy Technologies, 13 - 15 Ekim 2014

Desteklenen Projeler

2024 - Devam Ediyor	Yeşil Hidrojen Üretim Sisteminin Geliştirilmesi ve Kurulması, Yükseköğretim Kurumları Destekli Proje
2023 - Devam Ediyor	Temiz Hidrojen Enerji Teknolojilerinin Geliştirilmesi, Yükseköğretim Kurumları Destekli Proje
2024 - 2025	Hidrojen Üretimi için Yeni Termokimyasal Çevrimlerin Deneysel İncelenmesi, TÜBİTAK Projesi
2022 - 2023	Farklı geometrilere sahip ocak başlıklarının doğal gaz hidrojen karışımının yanma performansına etkisi, Yükseköğretim Kurumları Destekli Proje
2022 - 2022	Doğal gazın hidrojen ilavesiyle ocaklardaki yanma performansının deneysel incelenmesi, Yükseköğretim Kurumları Destekli Proje
2020 - 2021	Türkiye Doğalgaz Sektöründe Hidrojen Yol Haritası, Diğer Özel Kurumlarca Desteklenen Proje

Metrikler

Yayın: 41

Atıf (WoS): 196

Atıf (Scopus): 335

H-İndeks (WoS): 6

H-İndeks (Scopus): 9