

Dr. Öğr. Üyesi Merve ÖZTÜRK KIRKAR

Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: C-4590-2019

ScopusID: 56046955000

Yoksis Araştırmacı ID: 265215

Eğitim Bilgileri

Doktora, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, Türkiye 2017 - 2023

Yüksek Lisans, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği, Türkiye 2014 - 2017

Lisans, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği, Türkiye 2011 - 2014

Lisans, Uludağ Üniversitesi, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, Türkiye 2009 - 2011

Yaptığı Tezler

Doktora, Experimental and Theoretical Investigation of Renewable Hydrogen Production and Blending into Natural Gas for Applications, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2023

Yüksek Lisans, Panjur Kanatlı Isı Değiştiricilerinin Optimizasyonu, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2017

Araştırma Alanları

Enerji, Diğer Yenilenebilir Enerji Sistemleri, Alternatif Enerji Kaynakları, Hidrojen teknolojileri ve yakıt hücreleri, Termodinamik

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2023 - Devam Ediyor

Araştırma Görevlisi Dr., Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2023 - Devam Ediyor

Araştırma Görevlisi, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2017 - 2023

Verdiği Dersler

Thermodynamics II, Lisans, 2023 - 2024

Thermodynamics I, Lisans, 2023 - 2024

SCI, SSCI VE AHCI İNDEKSİNERİNE GİREN DERGİLERDE YAYINLANAN 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. **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)
- V. **System development and assessment for green hydrogen generation and blending with natural gas**
Ozturk M., Dincer İ.
ENERGY, cilt.261, ss.125233, 2022 (SCI-Expanded)
- VI. **Utilization of waste heat from cement plant to generate hydrogen and blend it with natural gas**
ÖZTÜRK M., DİNCER İ.
International Journal of Hydrogen Energy, cilt.47, ss.20695-20704, 2022 (SCI-Expanded)
- VII. **A comprehensive review on power-to-gas with hydrogen options for cleaner applications**
ÖZTÜRK M., DİNCER İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.46, sa.62, ss.31511-31522, 2021 (SCI-Expanded)
- VIII. **Investigation of Hydrogen and Methane Production from Flue Gas Released from the Steel Industry**
ÖZTÜRK M., Dincer İ.
ENERGY & FUELS, cilt.35, sa.15, ss.12718-12724, 2021 (SCI-Expanded)
- IX. **Effective use of hydrogen sulfide and natural gas resources available in the Black Sea for hydrogen economy**
ÖZTÜRK M., MİDİLLİ A., DİNCER İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.46, sa.18, ss.10697-10707, 2021 (SCI-Expanded)
- X. **An integrated system for clean hydrogen production from municipal solid wastes**
ÖZTÜRK M., DİNCER İ.
International Journal of Hydrogen Energy, cilt.46, ss.6251-6261, 2021 (SCI-Expanded)
- XI. **An integrated system for ammonia production from renewable hydrogen: A case study**
ÖZTÜRK M., DİNCER İ.
International Journal of Hydrogen Energy, cilt.46, ss.5918-5925, 2021 (SCI-Expanded)
- XII. **Development of a combined flash and binary geothermal system integrated with hydrogen production for blending into natural gas in daily applications**
ÖZTÜRK M., DİNCER İ.
Energy Conversion and Management, cilt.227, 2021 (SCI-Expanded)
- XIII. **Development of renewable energy system integrated with hydrogen and natural gas subsystems for cleaner combustion**
ÖZTÜRK M., DİNCER İ.
JOURNAL OF NATURAL GAS SCIENCE AND ENGINEERING, cilt.83, 2020 (SCI-Expanded)
- XIV. **Life cycle assessment of hydrogen-based electricity generation in place of conventional fuels for residential buildings**
ÖZTÜRK M., DİNCER İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.45, sa.50, ss.26536-26544, 2020 (SCI-Expanded)
- XV. **An efficient waste management system with municipal solid waste incineration plant**
ÖZTÜRK M., Dincer İ.
GREENHOUSE GASES-SCIENCE AND TECHNOLOGY, cilt.10, sa.4, ss.855-864, 2020 (SCI-Expanded)

- XVI. **Thermodynamic modeling of a solar energy based combined cycle with rock bed heat storage system**
ÖZTÜRK M., DİNCER İ., JAVANI N.
Solar Energy, cilt.200, ss.51-60, 2020 (SCI-Expanded)
- XVII. **Exergoeconomic analysis of a solar assisted tea drying system**
ÖZTÜRK M., DİNCER İ.
Drying Technology, cilt.38, ss.655-662, 2020 (SCI-Expanded)
- XVIII. **Comparative environmental impact assessment of various fuels and solar heat for a combined cycle**
ÖZTÜRK M., DİNCER İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.44, sa.10, ss.5043-5053, 2019 (SCI-Expanded)
- XIX. **Exergy analysis of tea drying in a continuous vibro-fluidised bed dryer**
ÖZTÜRK M., DİNCER İ.
INTERNATIONAL JOURNAL OF EXERGY, cilt.30, sa.4, ss.376-391, 2019 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Investigation of The Effect of Radiant Panel Positions and Water Temperature on Thermal Comfort**
Oruç O., Öztürk M.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, cilt.25, sa.1, ss.177-187, 2022 (ESCI)
- II. **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)
- III. **Investigation of Coolant Temperature Effect on Thermal Comfort in Wall Mounted Radiant Cooling Systems**
ÖZTÜRK M., Oruc O.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, cilt.22, sa.2, ss.461-468, 2019 (ESCI)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Environmental Impact Investigation of Using Hydrogen Sulfide and Waste-Based Hydrogen in Blending with Black Sea Natural Gas**
Öztürk M., Dincer İ.
11th Global Conference on Global Warming 2023 (GCGW-2023), İstanbul, Türkiye, 14 - 16 Haziran 2023, ss.1-3
- II. **Investigation of An Integrated System for Methanol Production by Carbon Capture from Ocean Water**
Öztürk M., Dincer İ.
The Seventh International Hydrogen Technologies Congress (IHTEC-2023), Elazığ, Türkiye, 10 - 12 Mayıs 2023, ss.1-3
- III. **A Brief Analysis of Green Hydrogen Production, Storage and Use in Natural Gas for a Sustainable Community**
Öztürk M., Dincer I.
The 2nd World Energy Storage Conference (WESC-2022), İstanbul, Türkiye, 18 - 21 Aralık 2022, ss.1-3
- IV. **An Application and Evaluation of Blending Biogas and Hydrogen into the Natural Gas for Combustion Applications**
Öztürk M., Dincer I.
23rd World Hydrogen Energy Conference (WHEC-2022), İstanbul, Türkiye, 26 - 30 Haziran 2022, ss.1035-1037
- V. **Blending Renewable Hydrogen with Black Sea Natural Gas: A Case Study**
Öztürk M., Dincer İ.
13th International Exergy, Energy and Environment Symposium (IEEES-13), Makkah, Suudi Arabistan, 14 - 17 Mart

2022, ss.95

- VI. **Utilization of Waste Heat from Cement Plant to Produce Hydrogen and Blend it with Natural Gas**
Öztürk M., Dincer İ.
The Sixth International Hydrogen Technologies Congress (IHTEC-2022), Çanakkale, Türkiye, 23 - 26 Ocak 2022, ss.52-54
- VII. **Analysis of an Integrated System for Ammonia Production from Renewable Hydrogen in Istanbul**
Öztürk M., Dincer İ.
4th International Hydrogen Technologies Congress, Edirne, Türkiye, 20 - 23 Haziran 2019, ss.1-4
- VIII. **ANALYSIS OF HYDROGEN PRODUCTION FROM MUNICIPAL SOLID WASTE GASIFICATION**
ÖZTÜRK M., DİNCER İ.
10th International Conference on Hydrogen Production (ICH2P-2019), 15 - 17 Mayıs 2019
- IX. **ANALYSIS OF WASTE MANAGEMENT WITH MUNICIPAL SOLID WASTE INCINERATION PLANT**
ÖZTÜRK M., DİNCER İ.
8th Global Conference on Global Warming (GCGW-2019), 22 - 25 Nisan 2019
- X. **Life Cycle Assessment of Hydrogen-based Electricity Generation in place of Conventional Fuels for Residential Buildings**
ÖZTÜRK M., DİNCER İ.
4th International Conference on Recycling and Reuse, 24 - 26 Ekim 2018
- XI. **Energy and Exergy Analysis of the Three-Stage Tea Drying Process**
ÖZTÜRK M., DİNCER İ.
10th International Exergy, Energy and Environment Symposium (IEEES-10), Katowice, Polonya, 01 Temmuz 2018
- XII. **COMPARATIVE EVALUATION OF EMISSIONS ARISING FROM THE USE OF VARIOUS FUELS IN A COMBINED CYCLE**
ÖZTÜRK M., DİNCER İ.
7th GLOBAL CONFERENCE on GLOBAL WARMING, 24 - 28 Haziran 2018
- XIII. **Thermodynamic Modeling of a Solar Based Combined Cycle with Rock Bed Heat Storage System**
ÖZTÜRK M., DİNCER İ., JAVANI N.
14. International Conference on Energy Storage, 25 - 28 Nisan 2018
- XIV. **REVIEW OF LITERATURE STUDY FOR LOUVERED FIN HEAT EXCHANGERS**
ÖZTÜRK M., PINARBAŞI A.
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING, 25 Nisan - 28 Aralık 2017, ss.871-886
- XV. **Fundamental basis and application of cold-room project design: A case study of frigoship**
ÖZTÜRK M., GOKTEPE E., Celen A., Çebi A., DALKILIÇ A. S., WONGWISES S.
ASME 2013 Heat Transfer Summer Conference, HT 2013 Collocated with the ASME 2013 7th International Conference on Energy Sustainability and the ASME 2013 11th International Conference on Fuel Cell Science, Engineering and Technology, Minneapolis, MN, Amerika Birleşik Devletleri, 14 - 19 Temmuz 2013, cilt.1

Desteklenen Projeler

DİNCER İ., FİGEN H. E., KANTÜRK FİGEN A., ERDEMİR D., BİÇER Y., AYDIN M. İ., COŞKUNER FİLİZ B., JAVANI N., BOYNUEĞRİ A. R., SORGULU F., et al., Yükseköğretim Kurumları Destekli Proje, Temiz Hidrojen Enerji Teknolojilerinin Geliştirilmesi, 2023 - Devam Ediyor

DİNCER İ., JAVANI N., ÖZTÜRK M., SORGULU F., Yükseköğretim Kurumları Destekli Proje, Farklı geometrilere sahip ocak başlıklarının doğal gaz hidrojen karışımının yanma performansına etkisi, 2022 - 2023

DİNCER İ., JAVANI N., SORGULU F., ÖZTÜRK M., Yükseköğretim Kurumları Destekli Proje, Doğal gazın hidrojen ilavesiyle ocaklardaki yanma performansının deneysel incelenmesi, 2022 - 2022

Dincer İ., Javani N., Sorgulu F., Öztürk M., Enerji ve Tabii Kaynaklar Bakanlığı, Yenilenebilir Gaz Üretimi, 2020 - 2022

Metrikler

Yayın: 38

Atıf (WoS): 369

Atıf (Scopus): 428

H-İndeks (WoS): 10

H-İndeks (Scopus): 12