

## Res. Asst. Merve ÖZTÜRK

### Personal Information

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### International Researcher IDs

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

ScopusID: 56046955000

Yoksis Researcher ID: 265215

### Education Information

Doctorate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği, Turkey 2017 - Continues  
Postgraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği, Turkey 2014 - 2017  
Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği, Turkey 2011 - 2014  
Undergraduate, Uludağ Üniversitesi, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, Turkey 2009 - 2011

### Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Thermodynamics, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2017 - Continues

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

- I. **System development and assessment for green hydrogen generation and blending with natural gas**  
Ozturk M., Dincer I.  
ENERGY, vol.261, pp.125233, 2022 (Peer-Reviewed Journal)
- II. **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, vol.47, pp.20695-20704, 2022 (Journal Indexed in SCI)
- III. **A comprehensive review on power-to-gas with hydrogen options for cleaner applications**  
ÖZTÜRK M., DİNCER İ.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.62, pp.31511-31522, 2021 (Peer-Reviewed Journal)
- IV. **Investigation of Hydrogen and Methane Production from Flue Gas Released from the Steel Industry**  
ÖZTÜRK M., Dincer İ.  
ENERGY & FUELS, vol.35, no.15, pp.12718-12724, 2021 (Journal Indexed in SCI)
- V. **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, vol.46, no.18, pp.10697-10707, 2021 (Peer-Reviewed Journal)

- VI. **An integrated system for clean hydrogen production from municipal solid wastes**  
ÖZTÜRK M., DİNCER İ.  
International Journal of Hydrogen Energy, vol.46, pp.6251-6261, 2021 (Peer-Reviewed Journal)
- VII. **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, vol.227, 2021 (Journal Indexed in SCI)
- VIII. **An integrated system for ammonia production from renewable hydrogen: A case study**  
ÖZTÜRK M., DİNCER İ.  
International Journal of Hydrogen Energy, vol.46, pp.5918-5925, 2021 (Peer-Reviewed Journal)
- IX. **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, vol.83, 2020 (Peer-Reviewed Journal)
- X. **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, vol.45, no.50, pp.26536-26544, 2020 (Peer-Reviewed Journal)
- XI. **An efficient waste management system with municipal solid waste incineration plant**  
ÖZTÜRK M., Dincer İ.  
GREENHOUSE GASES-SCIENCE AND TECHNOLOGY, vol.10, no.4, pp.855-864, 2020 (Journal Indexed in SCI)
- XII. **Thermodynamic modeling of a solar energy based combined cycle with rock bed heat storage system**  
ÖZTÜRK M., DİNCER İ., JAVANI N.  
Solar Energy, vol.200, pp.51-60, 2020 (Peer-Reviewed Journal)
- XIII. **Exergoeconomic analysis of a solar assisted tea drying system**  
ÖZTÜRK M., DİNCER İ.  
Drying Technology, vol.38, pp.655-662, 2020 (Peer-Reviewed Journal)
- XIV. **Comparative environmental impact assessment of various fuels and solar heat for a combined cycle**  
ÖZTÜRK M., DİNCER İ.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.10, pp.5043-5053, 2019 (Peer-Reviewed Journal)
- XV. **Exergy analysis of tea drying in a continuous vibro-fluidised bed dryer**  
ÖZTÜRK M., DİNCER İ.  
INTERNATIONAL JOURNAL OF EXERGY, vol.30, no.4, pp.376-391, 2019 (Journal Indexed in SCI)

## **Articles Published in Other Journals**

- I. **Investigation of The Effect of Radiant Panel Positions and Water Temperature on Thermal Comfort**  
Oruç O., Öztürk M.  
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.25, no.1, pp.177-187, 2022 (National Refereed University Journal)
- II. **Hidrojen ve Doğal Gaz Karışımının Eysel Cihazlarda Kullanımının Deneysel ve Teorik Olarak İncelenmesi**  
Sorgulu F., Öztürk M., Javani N., Dinçer İ.  
Cihannüma Teknoloji Fen ve Mühendislik Bilimleri Akademi Dergisi, vol.1, pp.23-38, 2022 (Other Refereed National Journals)

- III. **Investigation of Coolant Temperature Effect on Thermal Comfort in Wall Mounted Radiant Cooling Systems**  
ÖZTÜRK M., Oruc O.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.22, no.2, pp.461-468, 2019 (Journal Indexed in ESCI)

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

- I. **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, Turkey, 26 - 30 June 2022, pp.1035-1037
- II. **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, Saudi Arabia, 14 - 17 March 2022, pp.95
- III. **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, Turkey, 23 - 26 January 2022, pp.52-54
- IV. **Analysis of an Integrated System for Ammonia Production from Renewable Hydrogen in Istanbul**  
Öztürk M., Dincer İ.  
4th International Hydrogen Technologies Congress, Edirne, Turkey, 20 - 23 June 2019, pp.1-4
- V. **ANALYSIS OF HYDROGEN PRODUCTION FROM MUNICIPAL SOLID WASTE GASIFICATION**  
ÖZTÜRK M., DİNCER İ.  
10th International Conference on Hydrogen Production (ICH2P-2019), 15 - 17 May 2019
- VI. **ANALYSIS OF WASTE MANAGEMENT WITH MUNICIPAL SOLID WASTE INCINERATION PLANT**  
ÖZTÜRK M., DİNCER İ.  
8th Global Conference on Global Warming (GCGW-2019), 22 - 25 April 2019
- VII. **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 October 2018
- VIII. **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, Poland, 01 July 2018
- IX. **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 June 2018
- X. **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 April 2018
- XI. **REVIEW OF LITERATURE STUDY FOR LOUVERED FIN HEAT EXCHANGERS**  
ÖZTÜRK M., PINARBAŞI A.  
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING, 25 April - 28 December 2017, pp.871-886
- XII. **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,

## Supported Projects

DİNCER İ., JAVANI N., SORGULU F., ÖZTÜRK M., Project Supported by Higher Education Institutions, Doğal gazın hidrojen ilavesiyle ocaklardaki yanma performansının deneysel incelenmesi, 2022 - Continues

DİNCER İ., JAVANI N., ÖZTÜRK M., SORGULU F., Project Supported by Higher Education Institutions, Farklı geometrilere sahip ocak başlıklarının doğal gaz hidrojen karışımının yanma performansına etkisi, 2022 - Continues

Dincer İ., Javani N., Sorgulu F., Öztürk M., Energy and Natural Resources Ministry, Yenilenebilir Gaz Üretimi, 2020 - 2022

## Metrics

Publication: 30

Citation (WoS): 140

Citation (Scopus): 194

H-Index (WoS): 8

H-Index (Scopus): 8