

## **Res. Asst. FETHİ MUSTAFA ÇİMEN**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: AGT-1751-2022

ScopusID: 57226854311

Yoksis Researcher ID: 315135

### **Education Information**

Doctorate, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, Turkey 2021 - Continues

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2018 - 2021

Undergraduate, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği Bölümü, Turkey 2013 - 2017

### **Foreign Languages**

Russian, B1 Intermediate

English, C1 Advanced

French, A1 Beginner

### **Dissertations**

Postgraduate, MODEL BİR YASSI TÜP KATI OKSİT YAKIT PILİNİN SAYISAL SİMÜLASYONU, Gazi University, Fen Bilimleri Enstitüsü, 2020

### **Research Areas**

Energy, Hydrogen Technologies and Fuel Cells , Engineering and Technology

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

- I. Effects of physical properties and operating parameters on numerically developed flat-tube solid oxide fuel cell performance

Çimen F. M., İlbas M., Yalcin S.

International Journal of Hydrogen Energy, vol.48, no.60, pp.23136-23145, 2023 (SCI-Expanded)

- II. Numerical investigation of combustion and flame characteristics for a model solid oxide fuel cell performance improvement

İlbaş M., Karyeyen S., Çimen F. M.

FUEL, vol.322, pp.1-8, 2022 (SCI-Expanded)

- III. **Three-dimensional numerical simulation and experimental validation on ammonia and hydrogen fueled micro tubular solid oxide fuel cell performance**  
 Asmare M., İlbas M., Çimen F. M., Timurkutuk C., Onbilgin S.  
 International Journal of Hydrogen Energy, vol.47, no.35, pp.15865-15874, 2022 (SCI-Expanded)
- IV. **Simulation of hydrogen and coal gas fueled flat-tubular solid oxide fuel cell (FT-SOFC)**  
 ÇİMEN F. M., KÜMÜK B., İLBAŞ M.  
 International Journal of Hydrogen Energy, vol.47, pp.3429-3436, 2022 (SCI-Expanded)
- V. **Comparative performance analysis of a direct ammonia-fuelled anode supported flat tubular solid oxide fuel cell: A 3D numerical study**  
 İLBAŞ M., Alemu M. A., ÇİMEN F. M.  
 International Journal of Hydrogen Energy, vol.47, pp.3416-3428, 2022 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Performance Analysis of Machine Learning Algorithms in Intrusion Detection Systems**  
 ÇİMEN F. M., SÖNMEZ Y., İLBAŞ M.  
 Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.9, no.6, pp.251-258, 2021 (Peer-Reviewed Journal)
- II. **Numerical Comparison of Planar and Micro-Tubular Solid Oxide Fuel Cells**  
 İlbaş M., Çimen F. M., Kümük B.  
 Politeknik Dergisi, vol.24, no.2, pp.593-597, 2021 (ESCI)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Numerical Study on the Performance of a Flat-Tubular Solid Oxide Fuel Cell: The Effect of Burner Thermal Power and Furnace Geometry**  
 Çimen F. M., Karyeyen S., İlbaş M.  
 16th INTERNATIONAL COMBUSTION SYMPOSIUM (INCOS 2022), Aydın, Turkey, 8 - 11 September 2022, pp.1-5
- II. **Effects of Electrode Thicknesses on Cell Performance in a Developed Flat-Tubular Solid Oxide Fuel Cell (FT-SOFC)**  
 İlbaş M., Çimen F. M.  
 The Sixth International Hydrogen Technologies Congress, Çanakkale, Turkey, 23 - 26 January 2022, pp.98-100
- III. **Saldırı Tespit Sistemlerinde Makine Öğrenim Algoritmalarının Performans Analizi**  
 Çimen F. M., Sönmez Y., İlbaş M.  
 3rd International Conference on Artificial Intelligence and Applied Mathematics in Engineering (ICAIAME 2021), Antalya, Turkey, 1 - 03 October 2021, pp.35
- IV. **Numerical Investigation of A Model Flat-Tubular Solid Oxide Fuel Cell**  
 Çimen F. M., Kümük B., İlbaş M.  
 8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, pp.332-337
- V. **Numerical Modelling of Direct Ammonia Feed Anode Supported Flat-tubular Solid Oxide Fuel Cell**  
 İlbaş M., Alemu M. A., Çimen F. M.  
 8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, pp.141-145

### Activities in Scientific Journals

International Journal of Energy Studies (IJES), Technical Redactor, 2022 - Continues

## **Scientific Refereeing**

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, March 2024  
APPLIED ENERGY, Journal Indexed in SCI-E, January 2024  
FUEL, Journal Indexed in SCI-E, January 2024  
APPLIED ENERGY, Journal Indexed in SCI-E, December 2023  
FUEL, Journal Indexed in SCI-E, November 2023  
FUEL, Journal Indexed in SCI-E, October 2023  
FUEL, Journal Indexed in SCI-E, September 2023  
FUEL, Journal Indexed in SCI-E, September 2023  
FUEL, Journal Indexed in SCI-E, August 2023  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, Journal Indexed in SCI-E, May 2023  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, Journal Indexed in SCI-E, February 2023  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, August 2022  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, Journal Indexed in SCI-E, June 2022  
APPLIED ENERGY, Journal Indexed in SCI-E, April 2022  
ENERGY CONVERSION AND MANAGEMENT, Journal Indexed in SCI-E, October 2021  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, August 2021

## **Metrics**

Publication: 12  
Citation (WoS): 65  
Citation (Scopus): 79  
H-Index (WoS): 4  
H-Index (Scopus): 4

## **Congress and Symposium Activities**

The Sixth International Hydrogen Technologies Congress (IHTEC-2022), Attendee, Çanakkale, Turkey, 2022  
3rd International Conference on Artificial Intelligence and Applied Mathematics in Engineering (ICAIAME 2021),  
Attendee, Antalya, Turkey, 2021  
8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Attendee, Ankara, Turkey, 2021