

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

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Energy Systems Engineering, Turkey 2021 - Continues

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Energy Systems Engineering, 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, NUMERICAL SIMULATION OF A MODEL FLAT TUBE SOLID OXIDE FUEL CELL, Gazi University, Fen Bilimleri Enstitüsü, 2020

Research Areas

Energy, Hydrogen Technologies and Fuel Cells , Engineering and Technology

Academic Titles / Tasks

Research Assistant, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- Effects of physical properties and operating parameters on numerically developed flat-tube solid oxide fuel cell performance**
Çimen F. M., Ilbas 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., Timurkutluk 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. **An Investigation on Large Scale Green Hydrogen Production Through Electrolysis: Case Study of Akkuyu Nuclear Power Plant**
Çimen F. M., Yeşilgöl S. B.
7th International Conference on Nuclear and Renewable Energy Resources (NURER 2024), Antalya, Turkey, 27 - 30 October 2024, pp.200-204
- II. **Long-term Planning of Power Generation Volumes for the Akkuyu Nuclear Power Plant**
Yeşilgöl S. B., Çimen F. M.
7th International Conference on Nuclear and Renewable Energy Resources (NURER 2024), Antalya, Turkey, 27 - 30 October 2024, pp.161-165
- III. **Numerical Study On The Performance Of A Flat-Tubular Solid Oxide Fuel Cell: Describing The Best Furnace/Combustion Chamber Geometry And Combustion Technique**
ÇİMEN F. M., KARYEYEN S., İLBAŞ M.
INTERNATIONAL COMBUSTION SYMPOSIUM (INCOS), Turkey, 08 September 2022
- IV. **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
- V. **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

- VI. **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
- VII. **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
- VIII. **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

APPLIED ENERGY, Journal Indexed in SCI-E, October 2024
APPLIED ENERGY, Journal Indexed in SCI-E, September 2024
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, July 2024
APPLIED ENERGY, Journal Indexed in SCI-E, May 2024
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, May 2024
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: 15
Citation (WoS): 88
Citation (Scopus): 102
H-Index (WoS): 4
H-Index (Scopus): 5

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