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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Enerji Sistemleri Mühendisliği (Dr), Turkey 2018 - Continues

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Enerji Sistemleri Mühendisliği (YI) (Tezli), Turkey 2016 - 2018

Undergraduate, Erciyes University, Mühendislik Fakültesi, Enerji Sistemleri Mühendisliği Bölümü, Turkey 2011 - 2015

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Postgraduate, Katot Destekli Katı Oksit Yakıt Hücresinin Matematiksel Modellenmesi Ve Nümerik Analizi, Gazi University, Fen Bilimleri Enstitüsü, Enerji Sistemleri Mühendisliği (YI) (Tezli), 2018

Research Areas

Energy

Academic Titles / Tasks

Research Assistant, Tarsus University, Department Of Mechanical Engineering, 2020 - Continues

Research Assistant, Tarsus University, Tarsus Faculty Of Technology, Department Of Energy Systems Engineering, 2015 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- 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)
- Investigation of the effect of ion transition type on performance in solid oxide fuel cells fueled hydrogen and coal gas**
Kumuk B., Alemu M. A., İLBAŞ M.

- INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.5, pp.3409-3415, 2022 (SCI-Expanded)
- III. **Coal gas fuel utilization effects on electrolyte supported solide oxide fuel cell performance**
KÜMÜK B., İLBAŞ M.
International Journal of Hydrogen Energy, vol.46, pp.29523-29528, 2021 (SCI-Expanded)
- IV. **Numerical investigation of a direct ammonia tubular solid oxide fuel cell in comparison with hydrogen**
İlbaş M., Kümük B., Alemu M. A., Arslan B.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.35108-35117, 2020 (SCI-Expanded)
- V. **Modeling and analysis of a model solid oxide fuel cell running on low calorific value coal gases**
İLBAŞ M., KÜMÜK B.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.5, pp.3577-3583, 2020 (SCI-Expanded)
- VI. **Numerical modelling of a cathode-supported solid oxide fuel cell (SOFC) in comparison with an electrolyte-supported model**
İLBAŞ M., KÜMÜK B.
JOURNAL OF THE ENERGY INSTITUTE, vol.92, no.3, pp.682-692, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **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)
- II. **A Review of Fuel Cell Types and Applications**
KÜMÜK B.
International Journal of Energy Studies, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **The Effect of Electrolyte Type on Performance of Hydrogen Fueled Solid Oxide Fuel Cells**
Kümük B., Alemu M. A.
8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 05 March 2021
- III. **Numerical Analysis of Three-Dimensional Isothermal and Non-Isothermal PEM Fuel Cell Model**
İLBAŞ M., İLHAN G. Ö., KÜMÜK B., ÖZDEMİR B.
4th International Hydrogen Technologies Congress (IHTEC-2019), Edirne, Turkey, 20 - 23 June 2019, pp.127-130
- IV. **Numerical Modeling of a Model Tubular Solid Oxide Fuel Cell Running on Amonia in Comparison with Hydrogen**
İLBAŞ M., KÜMÜK B., ALEMU M. A., ÖZDEMİR B.
4th International Hydrogen Technologies Congress (IHTEC-2019), Edirne, Turkey, 20 - 23 June 2019, pp.123-126
- V. **Designing and Numerical Analysis of a High Pressure Hydrogen Storage Tank**
İLBAŞ M., YILDIRIM S. C., ÖZDEMİR B., KÜMÜK B.
4th International Conference on Viable Energy Trends (INVENT-2019), İstanbul, Turkey, 26 - 28 April 2019, pp.108-115
- VI. **NUMERICAL ANALYSIS OF A MODEL SOLID OXIDE FUEL CELL(SOFC) BY USING LOW CALORIFIC VALUE COAL GASES**
İLBAŞ M., KÜMÜK B.
7th GLOBAL CONFERENCE on GLOBAL WARMING, 24 - 26 June 2018

VII. **Model Bir Katı Oksit Yakıt Pilinin (KOYP) Performansına Etki Eden Faktörlerin Sayısal İncelenmesi**

İLBAŞ M., ABDÜSSELAMOĞLU B.

21. Ulusal Isı Bilimi ve Tekniğı Kongresi, Turkey, 13 - 16 September 2017

Metrics

Publication: 15

Citation (WoS): 93

Citation (Scopus): 112

H-Index (WoS): 5

H-Index (Scopus): 5