

## Res. Asst. BERRE KÜMÜK

### Personal Information

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### International Researcher IDs

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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

- I. **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)
- II. **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 solid 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 Tekniği Kongresi, Turkey, 13 - 16 September 2017

## **Metrics**

Publication: 15

Citation (WoS): 93

Citation (Scopus): 110

H-Index (WoS): 5

H-Index (Scopus): 5