

## **Res. Asst. ŞULENUR ASAL**

### **Personal Information**

**Email:** sulenurasal@gazi.edu.tr

**Web:** <https://avesis.gazi.edu.tr/13389>

### **International Researcher IDs**

ScholarID: JA3p8VEAAAAJ

ORCID: 0000-0003-2711-9290

Publons / Web Of Science ResearcherID: AHE-14299-2022

ScopusID: 57220862930

Yoksis Researcher ID: 304240

### **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 - 2020

Undergraduate, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, Turkey 2014 - 2018

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Postgraduate, INVESTIGATION OF FISSILE FUEL AND HYDROGEN PRODUCTION POTENTIAL IN A LASER DRIVER FUSION REACTOR WITH THORIUM NUCLEAR FUEL, Gazi University, Fen Bilimleri Enstitüsü, 2020

### **Research Areas**

Energy, Nuclear Energy, Engineering and Technology

### **Academic Titles / Tasks**

Researcher, Ontario Tech University, Clean Energy Research Laboratory (CERL), 2023 - Continues

Research Assistant, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2019 - Continues

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

- I. **A study on integrated HTR-PM driven hydrogen production using thermochemical cycles**  
ASAL Ş., ACIR A., Dincer I.  
Energy Conversion and Management, vol.307, 2024 (SCI-Expanded)
- II. **Evaluation and comparison of hydrogen production potential of the LIFE fusion reactor by using**

**copper-chlorine (Cu-Cl), cobalt-chlorine (Co-Cl) and sulfur-iodine (S-I) cycles**

ASAL Ş., ACIR A.

International Journal of Hydrogen Energy, vol.48, no.60, pp.22791-22805, 2023 (SCI-Expanded)

- III. **A study of hydrogen production by using SMR, S-I and HTE methods in a PACER fusion concept based on thorium molten salt fuel**

ASAL Ş., ÖZKAYA M., ACIR A.

Fuel, vol.333, 2023 (SCI-Expanded)

- IV. **A study on nuclear hydrogen production using a novel approach cobalt-chlorine thermochemical cycle in a laser driver fission fusion blanket for various molten salt fuels**

ASAL Ş., ACIR A.

Progress in Nuclear Energy, vol.153, 2022 (SCI-Expanded)

- V. **Utilization of the Cu-Cl thermochemical cycle for hydrogen production using a laser driver thorium molten salts**

Asal Ş., Acir A.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.61, pp.31133-31142, 2021 (SCI-Expanded)

- VI. **Investigation of the hydrogen production of a laser FUSION driver thorium breeder using various coolants**

ACIR A., ASAL Ş.

International Journal of Hydrogen Energy, vol.46, no.10, pp.7087-7098, 2021 (SCI-Expanded)

- VII. **THERMAL ANALYSIS OF THE VVER-1000 REACTOR WITH THORIUM FUEL AND COOLANT CONTAINING Al<sub>2</sub>O<sub>3</sub>, CuO, AND TiO<sub>2</sub> NANOPARTICLES**

ACIR A., Uzun S., Genc Y., ASAL Ş.

HEAT TRANSFER RESEARCH, vol.52, no.4, pp.79-93, 2021 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Uranyum Yakıtlı Bir Lazer Sürücülü Füzyon Reaktöründe (LIFE) Nötronik Performansın Hidrojen Üretimine Etkisi**

Asal Ş., Acir A.

Journal of Polytechnic, vol.24, no.2, pp.609-617, 2021 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **A Study on Nuclear-Based Hydrogen Production System via Three- and Four-Step Magnesium Chlorine Cycles**

Asal Ş., Acir A., Dincer İ.

14th International Conference on Hydrogen Production (ICH2P-2023), Ar-Rayyan, Qatar, 19 - 21 December 2023, pp.161-163

- II. **Comparison of Hydrogen Production of the LIFE Fusion Reactor Fueled Thorium via Different Hydrogen Production Methods**

Asal Ş., Acir A.

The Sixth International Hydrogen Technologies Congress, Çanakkale, Turkey, 23 - 26 January 2022, pp.28-30

## Activities in Scientific Journals

Politeknik Dergisi , Technical Redactor, 2020 - Continues

## **Metrics**

Publication: 12

Citation (WoS): 30

Citation (Scopus): 27

H-Index (WoS): 3

H-Index (Scopus): 3

## **Non Academic Experience**

Company, Üntes Air Conditioning Systems , Export