

Arş. Gör. ŞULENUR ASAL

Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: CCI-4741-2022

ScopusID: 57220862930

Yoksis Araştırmacı ID: 304240

Eğitim Bilgileri

Doktora, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Enerji Sistemleri Mühendisliği, Türkiye 2021 - Devam Ediyor

Yüksek Lisans, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Enerji Sistemleri Mühendisliği (YI) (Tezli), Türkiye 2018 - 2020

Lisans, Gazi Üniversitesi, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, Türkiye 2014 - 2018

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Yüksek Lisans, TORYUM NÜKLEER YAKITLI LAZER SÜRÜCÜLÜ BİR FÜZYON REAKTÖRÜNDE FİSİL YAKIT VE HİDROJEN ÜRETİM POTANSİYELİNİN ARAŞTIRILMASI, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, 2020

Araştırma Alanları

Enerji, Nükleer Enerji, Hidrojen teknolojileri ve yakıt hücreleri, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Araştırma Görevlisi, Gazi Üniversitesi, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2019 - Devam Ediyor

Araştırmacı, Ontario Tech University, Clean Energy Research Laboratory (CERL), 2023 - 2024

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Comparative assessment of chloride family hydrogen production cycles driven by a nuclear-geothermal energy system**
Asal Ş., Acir A., Dincer I.
Computers and Chemical Engineering, cilt.194, 2025 (SCI-Expanded)

- II. **Development and assessment of an integrated multigenerational energy system with cobalt-chlorine hydrogen generation cycle**
Asal Ş., Acir A., Dincer I.
Energy, cilt.309, 2024 (SCI-Expanded)
- III. **Assessment of hydrogen production potential of APEX fusion blanket via cobalt-chlorine and copper-chlorine cycles**
Asal Ş., Genç G., Acir A.
Process Safety and Environmental Protection, cilt.190, ss.1536-1545, 2024 (SCI-Expanded)
- IV. **A sustainable cruise ship development with cleaner production of electricity, heat, cooling, freshwater and hydrogen**
Asal Ş., Acir A., Dincer I.
Journal of Cleaner Production, cilt.467, 2024 (SCI-Expanded)
- V. **A study on integrated HTR-PM driven hydrogen production using thermochemical cycles**
Asal Ş., Acir A., Dincer I.
Energy Conversion and Management, cilt.307, 2024 (SCI-Expanded)
- VI. **Multi-objective optimization of the hydrogen fuel production of a solar-based cobalt-chlorine (Co-Cl) thermochemical cycle with grey relational analysis**
Çakroğlu R., Çinici O. K., Asal Ş., Acir A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, sa.68, ss.360-373, 2024 (SCI-Expanded)
- VII. **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, cilt.48, sa.60, ss.22791-22805, 2023 (SCI-Expanded)
- VIII. **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, cilt.333, 2023 (SCI-Expanded)
- IX. **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, cilt.153, 2022 (SCI-Expanded)
- X. **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, cilt.46, sa.61, ss.31133-31142, 2021 (SCI-Expanded)
- XI. **Investigation of the hydrogen production of a laser FUSION driver thorium breeder using various coolants**
ACIR A., ASAL Ş.
International Journal of Hydrogen Energy, cilt.46, sa.10, ss.7087-7098, 2021 (SCI-Expanded)
- XII. **THERMAL ANALYSIS OF THE VVER-1000 REACTOR WITH THORIUM FUEL AND COOLANT CONTAINING Al₂O₃, CuO, AND TiO₂ NANOPARTICLES**
ACIR A., Uzun S., Genc Y., ASAL Ş.
HEAT TRANSFER RESEARCH, cilt.52, sa.4, ss.79-93, 2021 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Uranyum Yakıtlı Bir Lazer Sürücülü Füzyon Reaktöründe (LIFE) Nötronik Performansın Hidrojen Üretimine Etkisi**
Asal Ş., Acir A.
Journal of Polytechnic, cilt.24, sa.2, ss.609-617, 2021 (ESCI)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Design and Assessment of The ARC Fusion Reactor Integrated Energy System to Produce Power and Hydrogen**
Asal Ş., Acir A.
7th International Conference on Nuclear and Renewable Energy Resources (NURER-2024), Antalya, Türkiye, 27 - 30 Ekim 2024, ss.156-160
- II. **A Study on Geothermal-Based H₂S-FeCl Hybrid Process for Hydrogen Production and H₂S Removal**
Asal Ş., Acir A., Dincer İ.
8th International Hydrogen Technologies Congress (IHTEC-2024), Diyarbakır, Türkiye, 12 - 15 Mayıs 2024, ss.240-242
- III. **A Study on Nuclear-Based Trigeration System with Cobalt-Chlorine Thermochemical Cycle**
Asal Ş., Acir A., Dincer İ.
12th Global Conference on Global Warming (GCGW-2024), Şanlıurfa, Türkiye, 16 - 19 Mayıs 2024, ss.95-97
- IV. **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 Aralık 2023, ss.161-163
- V. **Comparison of Hydrogen Production of the LIFE Fusion Reactor Fueled Thorium via Different Hydrogen Production Methods**
Asal Ş., Acir A.
6th International Hydrogen Technologies Congress (IHTEC-2022), Çanakkale, Türkiye, 23 - 26 Ocak 2022, ss.28-30

Bilimsel Dergilerdeki Faaliyetler

Politeknik Dergisi , Teknik Redaktör, 2020 - Devam Ediyor

Metrikler

Yayın: 20

Atıf (WoS): 62

Atıf (Scopus): 57

H-İndeks (WoS): 6

H-İndeks (Scopus): 5

Akademi Dışı Deneyim

Şirket, Üntes İklimlendirme Sistemleri , İhracat