

## Doç. Dr. AYHAN ATIZ

### Kişisel Bilgiler

E-posta: aatiz@cu.edu.tr

Web: <https://avesis.cu.edu.tr/aatiz>

Posta Adresi: Çukurova Üniversitesi Fen Edebiyat Fakültesi Fizik Bölümü Balcalı Sarıçam/Adana

### Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-1292-5161

Yoksis Araştırmacı ID: 261183

### Araştırma Alanları

Temel Bilimler

### Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 2021 - Devam Ediyor

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Evaluation of energy, exergy, economic, and carbon savings analyses, along with green hydrogen production of PVs and PVTs under daily solar radiation for various tilt angles and mass flow ratios**  
ATIZ A.  
International Journal of Hydrogen Energy, cilt.98, ss.657-672, 2025 (SCI-Expanded)
- A comparative review of ORC and R-ORC technologies in terms of energy, exergy, and economic performance**  
Damarseckin S., Junior Kane S. Y., ATIZ A., KARAKILÇIK M., Sogukpınar H., Bozkurt I., Oyucu S., AKSÖZ A.  
Heliyon, cilt.10, sa.23, 2024 (SCI-Expanded)
- Integrating renewable energy technologies in green ships for mobile hydrogen, electricity, and freshwater generation**  
ATIZ A., Erden M., KARAKILÇIK H., KARAKILÇIK M.  
International Journal of Hydrogen Energy, cilt.89, ss.1368-1382, 2024 (SCI-Expanded)
- Solar pond integrated with parabolic trough solar collector for producing electricity and hydrogen**  
Damarseckin S., ATIZ A., KARAKILÇIK M.  
International Journal of Hydrogen Energy, cilt.52, ss.115-126, 2024 (SCI-Expanded)
- Hydrogen production of flat plate solar collectors integrated with photovoltaic thermal panels**  
ATIZ A., Erden M., KARAKILÇIK M.  
International Journal of Hydrogen Energy, cilt.52, ss.1408-1424, 2024 (SCI-Expanded)
- Investigation of the energetic, exergetic performance, environmental, economic, and hydrogen production analyses of PV-T for increasing surface areas and mass flow rates compared to PV**  
ATIZ A., KARAKILÇIK M., Sogukpınar H., Bozkurt I.  
International Journal of Hydrogen Energy, cilt.49, ss.424-436, 2024 (SCI-Expanded)
- Assessment of hydrogen generation and thermodynamic efficiencies of PEM coupled with PV and PV-T under diverse circumstances**

ATIZ A., KARAKILÇIK M.

International Journal of Hydrogen Energy, 2024 (SCI-Expanded)

VIII. **Experimental room heating applications relative to increasingly evacuated vacuum tube solar collectors**

ATIZ A., KARAKILÇIK M.

HEAT AND MASS TRANSFER, cilt.59, sa.6, ss.1059-1071, 2023 (SCI-Expanded)

IX. **Energy and exergy analyses and electricity generation of PV-T combined with a solar collector for varying mass flow rate and ambient temperature**

ATIZ A., Erden M., KARAKILÇIK M.

HEAT AND MASS TRANSFER, cilt.58, sa.7, ss.1263-1278, 2022 (SCI-Expanded)

X. **The integration of parabolic trough solar collectors and evacuated tube collectors to geothermal resource for electricity and hydrogen production**

ATIZ A., KARAKILÇIK H., Erden M., KARAKILÇIK M.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.46, sa.57, ss.29027-29037, 2021 (SCI-Expanded)

## Diğer Dergilerde Yayınlanan Makaleler

I. **Hava ve su ile soğutulan PV-T'nin dört farklı koşul için enerji ve ekserji analizi**

ATIZ A.

Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, cilt.29, sa.2, ss.110-119, 2023 (Hakemli Dergi)

II. **Comparison of heat efficiency of flat-plate and vacuum tube collectors integrated with Organic Rankine Cycle in Adana climate conditions**

ATIZ A., KARAKILÇIK M.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, cilt.26, sa.1, ss.106-112, 2020 (ESCI)

III. **The Theoretical Investigation of Performance of the Hydrogen Attainment System with Electricity from a Solar Pond**

ATIZ A., KARAKILÇIK M.

Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, cilt.34, sa.4, ss.1-8, 2018 (Hakemli Dergi)

## Kitaplar

I. **Investigation of Cushion Gas / Working Gas Ratios of Underground Salt Caverns Hydrogen Gas Storage**

San S., KARAKILÇIK M., KARAKILÇIK H., Erden M., ATIZ A.

Emerging Trends in Energy Storage Systems and Industrial Applications, Prabhansu, Nayan Kumar, Editör, Elsevier, Oxford, ss.67-78, 2022

II. **Thermal Energy Storage Performance Analysis of Different Model Solar Ponds**

KARAKILÇIK M., ATIZ A., BOZKURT İ., Erden M., Çiloğulları M., Saxena A.

Renewable Energy Based Solutions, Uyar Tanay Sıdkı, Javani Nader, Editör, Springer, Cham, ss.465-487, 2022

III. **Performance Improving of Low Temperature Geothermal Sources with the Assist of a Solar Pond**

KARAKILÇIK H., ATIZ A., Erden M., KARAKILÇIK M.

Renewable Energy Based Solutions, Uyar Tanay Sıdkı, Javani Nader, Editör, Springer, Cham, ss.451-463, 2022

IV. **Hydrogen production and space heating using water heated by solar radiation**

ATIZ A., KARAKILÇIK H., KARAKILÇIK M.

Solar Water Heating: Fundamentals and Applications, Khalil Kassmi, Editör, Nova Science Publishers, Inc., Hauppauge NY, ss.177-202, 2021

V. **Daily comparison energy and exergy analysis and thermal energy storage performance of solar collectors**

ATIZ A., KARAKILÇIK H., SAXENA A., KARAKILÇIK M.

Solar Water Heating: Fundamentals and Applications, Khalil Kassmi, Editör, Nova Science Publishers, Inc., Hauppauge NY, ss.59-83, 2021

**VI. 100 Renewable Energy Generation with Integrated Solar Energy Systems**

ATIZ A., KARAKILÇIK M.

Accelerating the Transition to a 100 Renewable Energy Era, Tanay Sıtkı Uyar, Editör, Springer Nature, Cham, ss.259-274, 2020

## **Hakemli Bilimsel Toplantılarda Yayımlanmış Bildiriler**

**I. INVESTIGATION OF ELECTRICITY, HYDROGEN AND CLEAN WATER PRODUCTION WITH RENEWABLE ENERGY SYSTEM INTEGRATED ONTO A SHIP: MOBILE ENERGY PRODUCTION ON A SHIP**

Erden M., ATIZ A., KARAKILÇIK H., KARAKILÇIK M.

23rd World Hydrogen Energy Conference (WHEC2022), İstanbul, Türkiye, 26 - 30 Haziran 2022, cilt.1, ss.170-172

## **Metrikler**

Yayın: 30

Atıf (WoS): 6

Atıf (Scopus): 9

H-İndeks (WoS): 2

H-İndeks (Scopus): 1