

## 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

- I. **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)
- II. **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)
- III. **Solar pond integrated with parabolic trough solar collector for producing electricity and hydrogen**  
Damarseekin S., ATIZ A., KARAKILÇIK M.  
International Journal of Hydrogen Energy, cilt.52, ss.115-126, 2024 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)

## **Kitap & Kitap Bölümleri**

- 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 Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- 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: 27

Atıf (WoS): 6

Atıf (Scopus): 9

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H-İndeks (Scopus): 1