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Research Areas

Natural Sciences

Academic Titles / Tasks

Assistant Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2021 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Hydrogen production of flat plate solar collectors integrated with photovoltaic thermal panels ATIZ A., Erden M., KARAKILÇIK M.
 - International Journal of Hydrogen Energy, vol.52, pp.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., Sogukpinar H., Bozkurt I.
 - International Journal of Hydrogen Energy, vol.49, pp.424-436, 2024 (SCI-Expanded)
- III. Solar pond integrated with parabolic trough solar collector for producing electricity and hydrogen Damarseckin S., ATIZ A., KARAKILÇIK M.
 - International Journal of Hydrogen Energy, vol.52, pp.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, vol.59, no.6, pp.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, vol.58, no.7, pp.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, vol.46, no.57, pp.29027-29037, 2021 (SCI-Expanded)

Articles Published in Other Journals

I. Energy and exergy analysis of PV-T cooled with air and water for four different conditions

Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.29, no.2, pp.110-119, 2023 (Peer-Reviewed Journal)

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, vol.26, no.1, pp.106-112, 2020 (ESCI)

III. The Theoretical Investigation of Performance of the Hydrogen Attaination Systemwith Electricity from a Solar Pond

ATIZ A., KARAKILÇIK M.

Çukurova Üniversitesi Mühendislik-Mimarlik Fakültesi Dergisi, vol.34, no.4, pp.1-8, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

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.

in: Emerging Trends in Energy Storage Systems and Industrial Applications, Prabhansu, Nayan Kumar, Editor, Elsevier, Oxford, pp.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.

in: Renewable Energy Based Solutions, Uyar Tanay Sıdkı, Javani Nader, Editor, Springer, Cham, pp.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.

in: Renewable Energy Based Solutions, Uyar Tanay Sıdkı, Javani Nader, Editor, Springer, Cham, pp.451-463, 2022

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

ATIZ A., KARAKILÇIK H., KARAKILÇIK M.

in: Solar Water Heating: Fundamentals and Applications, Khalil Kassmi, Editor, Nova Science Publishers, Inc., Hauppauge NY, pp.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.

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

VI. 100 Renewable Energy Generation with Integrated Solar Energy Systems

ATIZ A., KARAKILÇIK M.

in: Accelerating the Transition to a 100 Renewable Energy Era, Tanay Sıtkı Uyar, Editor, Springer Nature, Cham, pp.259-274, 2020

Refereed Congress / Symposium Publications in Proceedings

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, Turkey, 26 - 30 June 2022, vol.1, pp.170-172

Metrics

Publication: 27 Citation (WoS): 6 Citation (Scopus): 9 H-Index (WoS): 2 H-Index (Scopus): 1