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International Researcher IDs

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Publons / Web Of Science ResearcherID: C-2829-2018

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Education Information

Doctorate, Cukurova University, Fen Bilimleri , Fizik, Turkey 1992 - 1998

Postgraduate, Cukurova University, Fen Bilimleri, Fizik, Turkey 1988 - 1992

Undergraduate, Cukurova University, Fen Edebiyat Fakültesi, Fizik, Turkey 1984 - 1988

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Occupational Health and Safety, İş Güvenliği Eğitim Programı, TÜV, 2014

Dissertations

Doctorate, Prototip yalıtımlı bir güneş havuzunun performansının saptanması, Cukurova University, Fen Bilimleri Enstitüsü, 1998

Postgraduate, Yalıtımlı ve yalıtımsız güneş havuzlarının performansını etkileyen etmenler, Cukurova University, Fen Bilimleri Enstitüsü, 1991

Research Areas

Mechanical Engineering, Energy, Alternative Energy Resources, Energy storage technologies, Solar energy, Thermodynamics, Heat and Mass Transfer, Physics, General Physics, Mathematical Methods in Physics, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2018 - Continues
Associate Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2013 - 2018
Assistant Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 1999 - 2013

Academic and Administrative Experience

Member of the Senate, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2023 - Continues
Fakülte Kurulu Üyesi, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2022 - Continues
Head of Department, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2022 - Continues
Meslek Yüksekokulu Kurulu Üyesi, Cukurova University, İmamoğlu Meslek Yüksekokulu, Elektrik ve Enerji, 2014 - 2017
Head of Department, Cukurova University, Sivil Havacılık Yüksekokulu, Havacılık Elektrik-Elektroniği, 2013 - 2017
Yüksekokul Kurulu Üyesi, Cukurova University, Sivil Havacılık Yüksekokulu, Havacılık Elektrik-Elektroniği, 2013 - 2017
Yüksekokul Yönetim Kurulu Üyesi, Cukurova University, Sivil Havacılık Yüksekokulu, Havacılık Elektrik-Elektroniği, 2013 - 2016
Meslek Yüksekokulu Yönetim Kurulu Üyesi, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2013 - 2016
Cukurova University, Fen Edebiyat Fakültesi, Fizik, 2007 - 2014

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Ege Üniversitesi, January, 2022
Associate Professor Exam, Associate Professor Exam, Kırıkkale Üniversitesi, February, 2021
Associate Professor Exam, Associate Professor Exam, Dokuz Eylül Üniversitesi, July, 2019
Associate Professor Exam, Doçentlik Sınav Jürisi, Necmettin Erbakan Üniversitesi, September, 2018

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. **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)
- III. **Experimental investigation of hydrogen production performance of various salts with a chlor-alkali method**
Erden M., KARAKILÇIK M.
International Journal of Hydrogen Energy, vol.52, pp.546-560, 2024 (SCI-Expanded)
- IV. **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, vol.49, pp.424-436, 2024 (SCI-Expanded)
- V. **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)
- VI. **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)

- VII. **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)
- VIII. **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)
- IX. **Assessment of power and hydrogen production performance of an integrated system based on middle-grade geothermal source and solar energy**
ATIZ A., KARAKILÇIK H., Erden M., KARAKILÇIK M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.1, pp.272-288, 2021 (SCI-Expanded)
- X. **Çukurova Üniversitesi Uzay Bilimleri ve Güneş Enerjisi Araştırma ve Uygulama Merkezi (UZAYMER): I. Gözlem Koşulları ve Güncel Projeler**
SOLMAZ A., AKSAKER N., AKYÜZ A., KURT Z., ALLAK S., ALADAĞ Y., KARAKILÇIK M., EMRAHOĞLU N., ÖZEL M. E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.2, no.1, pp.1-12, 2021 (SCI-Expanded)
- XI. **Performance investigation of salt gradient cylindrical solar pond integrated and nonintegrated with evacuated tube solar collectors**
ATIZ A., BOZKURT İ., KARAKILÇIK M.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.12, pp.6243-6255, 2019 (SCI-Expanded)
- XII. **Investigation energy, exergy and electricity production performance of an integrated system based on a low-temperature geothermal resource and solar energy**
ATIZ A., KARAKILÇIK H., Erden M., KARAKILÇIK M.
ENERGY CONVERSION AND MANAGEMENT, vol.195, pp.798-809, 2019 (SCI-Expanded)
- XIII. **Investigation of hydrogen production performance of chlor-alkali cell integrated into a power generation system based on geothermal resources**
KARAKILÇIK H., Erden M., KARAKILÇIK M.
International Journal of Hydrogen Energy, pp.14145-14150, 2019 (SCI-Expanded)
- XIV. **Assessment of electricity and hydrogen production performance of evacuated tube solar collectors**
ATIZ A., KARAKILÇIK H., Erden M., KARAKILÇIK M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.27, pp.14137-14144, 2019 (SCI-Expanded)
- XV. **Investigation of hydrogen production performance of a reactor assisted by a solar pond via photoelectrochemical process**
KARAKILÇIK M., Erden M., Çiloğulları M., Dincer I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.23, pp.10549-10554, 2018 (SCI-Expanded)
- XVI. **A preface to the special issue section on "The Second International Hydrogen Technologies Congress (IHTEC 2017), 15-18 March 2017, Adana, Turkey"**
Midilli A., KARAKILÇIK M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.23, pp.10521, 2018 (SCI-Expanded)
- XVII. **Solar Food Processing and Cooking Methodologies**
Saxena A., Goel V., KARAKILÇIK M.
APPLICATIONS OF SOLAR ENERGY, pp.251-294, 2018 (SCI-Expanded)
- XVIII. **PERFORMANCE COMPARISON OF ABOVEGROUND AND UNDERGROUND SOLAR PONDS**
Sogukpınar H., Bozkurt I., KARAKILÇIK M.
THERMAL SCIENCE, vol.22, no.2, pp.953-961, 2018 (SCI-Expanded)
- XIX. **Investigation of hydrogen production performance of a Photovoltaic and Thermal System**
Çiloğulları M., Erden M., KARAKILÇIK M., Dincer I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.4, pp.2547-2552, 2017 (SCI-Expanded)
- XX. **Performance investigation of hydrogen production by the flat-plate collectors assisted by a solar pond**
Erden M., KARAKILÇIK M., Dincer I.

- INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.4, pp.2522-2529, 2017 (SCI-Expanded)
- XXI. **Reply to "Erroneous equations used for energy and exergy analysis of a solar pond" by M. Khalilian KARAKILÇIK M.**
ENERGY CONVERSION AND MANAGEMENT, vol.120, pp.469-470, 2016 (SCI-Expanded)
- XXII. **Performance assessment of a magnesium chloride saturated solar pond**
Bozkurt I., Deniz S., KARAKILÇIK M., Dincer I.
RENEWABLE ENERGY, vol.78, pp.35-41, 2015 (SCI-Expanded)
- XXIII. **The effect of sunny area ratios on the thermal performance of solar ponds**
Bozkurt I., KARAKILÇIK M.
ENERGY CONVERSION AND MANAGEMENT, vol.91, pp.323-332, 2015 (SCI-Expanded)
- XXIV. **Exergy analysis of a solar pond integrated with solar collector**
Bozkurt I., KARAKILÇIK M.
SOLAR ENERGY, vol.112, pp.282-289, 2015 (SCI-Expanded)
- XXV. **A new performance model to determine energy storage efficiencies of a solar pond**
Bozkurt I., Mantar S., KARAKILÇIK M.
HEAT AND MASS TRANSFER, vol.51, no.1, pp.39-48, 2015 (SCI-Expanded)
- XXVI. **Investigation of turbidity effect on exergetic performance of solar ponds**
Atiz A., Bozkurt I., KARAKILÇIK M., Dincer I.
ENERGY CONVERSION AND MANAGEMENT, vol.87, pp.351-358, 2014 (SCI-Expanded)
- XXVII. **AN INVESTIGATION OF THE EFFECT OF TRANSPARENT COVERS ON THE PERFORMANCE OF CYLINDRICAL SOLAR PONDS**
Bozkurt I., Atiz A., KARAKILÇIK M., Dincer I.
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.11, no.4, pp.404-416, 2014 (SCI-Expanded)
- XXVIII. **Dynamic exergetic performance assessment of an integrated solar pond**
KARAKILÇIK M., Bozkurt I., Dincer I.
INTERNATIONAL JOURNAL OF EXERGY, vol.12, no.1, pp.70-86, 2013 (SCI-Expanded)
- XXIX. **Performance assessment of a solar pond with and without shading effect**
KARAKILÇIK M., Dincer I., Bozkurt I., Atiz A.
ENERGY CONVERSION AND MANAGEMENT, vol.65, pp.98-107, 2013 (SCI-Expanded)
- XXX. **The daily performance of a solar pond integrated with solar collectors**
Bozkurt I., KARAKILÇIK M.
SOLAR ENERGY, vol.86, no.5, pp.1611-1620, 2012 (SCI-Expanded)
- XXXI. **Exergetic performance analysis of a solar pond**
KARAKILÇIK M., Dincer I.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.47, no.1, pp.93-102, 2008 (SCI-Expanded)
- XXXII. **Performance investigation of a solar pond**
Karakilcik M., Dincer I., Rosen M. A.
APPLIED THERMAL ENGINEERING, vol.26, no.7, pp.727-735, 2006 (SCI-Expanded)
- XXXIII. **Experimental and theoretical temperature distributions in a solar pond**
Karakilcik M., Kıymaç K., Dincer I.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.49, pp.825-835, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Vardiyalı Çalışanların Gürültü Algı Yanılgısının İncelenmesi**
ACAR M. Z., KARAKILÇIK M.
Çukurova Üniversitesi Mühendislik Fakültesi Dergisi, vol.36, no.4, pp.1089-1097, 2021 (Peer-Reviewed Journal)
- II. **Ç.Ü. Uzay Bilimleri ve Güneş Enerjisi Araştırma ve Uygulama Merkezi (UZAYMER) : I. Gözlem Koşulları ve Güncel Projeler**
SOLMAZ A., AKSAKER N., AKYÜZ A., BAŞTÜRK Ö., KARAKILÇIK M., EMRAHOĞLU N., ÖZEL M. E.

Turkish Journal of Astronomy and Astrophysics, vol.2, no.1, pp.1-12, 2021 (Peer-Reviewed Journal)

- III. **Comparison of heat efficiencies 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)
- IV. **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)
- V. **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, vol.34, no.4, pp.1-8, 2018 (Peer-Reviewed Journal)
- VI. **Performance Evaluation of a Solar Cooker with Low Cost Heat Storage Material**
Saxena A., KARAKILÇIK M.
International Journal of Sustainable and Green Energy, vol.6, no.4, pp.57-63, 2017 (Peer-Reviewed Journal)
- VII. **NUMERICAL INVESTIGATION OF INSULATION EFFECT ON SOLAR POND**
Bozkurt I., Sogukpinar H., KARAKILÇIK M., Turkmenler H., Balta M.
International Journal of Engineering & Applied Sciences (IJEAS), vol.7, no.3, pp.16-25, 2015 (Peer-Reviewed Journal)
- VIII. **Modeling Of A Solar Pond For Different Insulation Materials To Calculate Temperature Distribution**
Bozkurt I., Sogukpinar H., KARAKILÇIK M.
Journal of Multidisciplinary Engineering Science and Technology (JMEST), vol.2, no.6, pp.1378-1382, 2015 (Peer-Reviewed Journal)
- IX. **Energy efficiency assessment of integrated and nonintegrated solar ponds**
Bozkurt I., KARAKILÇIK M., Dincer I.
INTERNATIONAL JOURNAL OF LOW-CARBON TECHNOLOGIES, vol.9, no.1, pp.45-51, 2014 (ESCI)
- X. **Vakum Tüplü Kollektörlerin Güneş Havuzu Performansı Üzerine Etkisi**
KARAKILÇIK M., Atız A., Bozkurt İ.
Adıyaman Üniversitesi Fen Bilimleri Dergisi, vol.4, no.1, pp.1-10, 2014 (Peer-Reviewed Journal)
- XI. **Magnezyum Klorür Tabakalı Güneş Havuzunun Enerji ve Ekserji Verimlerinin İncelenmesi**
Deniz S., KARAKILÇIK M.
Çukurova Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.29, no.1, pp.57-69, 2013 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Investigation of cushion gas/working gas ratios of underground salt caverns for hydrogen storage**
San S., Karakılçık H., Karakılçık M., Erden M., Atız A.
in: Emerging Trends in Energy Storage Systems and Industrial Applications, Prabhansu and Nayan Kumar, Editor, Academic Press , London, pp.67-78, 2022
- II. **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
- 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. **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
- 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. **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
- VII. **Thermal performance evaluation of a modified solar water heater integrated with parabolic trough concentrator**
RASTOGI V., SAXENA A., SINGH A., KARAKILÇIK M.
in: Solar Water Heating: Fundamentals and Applications, Khalil Kassmi, Editor, Nova Science Publishers, Inc., Hauppauge NY, pp.151-175, 2021
- VIII. **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
- IX. **Underground Large-Scale Hydrogen Storage**
KARAKILÇIK H., KARAKILÇIK M.
in: Accelerating the Transition to a 100 Renewable Energy Era, Tanay Sıtkı Uyar, Editor, Springer Nature, Cham, pp.375-392, 2020
- X. **Solar Food Processing and Cooking Methodologies**
Saxena A., Goel V., KARAKILÇIK M.
in: Applications of Solar Energy, Himanshu Tyagi Avinash Kumar Agarwal Prodyut R. Chakraborty Satvasheel Powar, Editor, Springer, pp.251-294, 2018
- XI. **Performance Analysis of a Solar Pond**
BOZKURT İ., ATIZ A., KARAKILÇIK M., Dinçer I.
in: Progress in Exergy, Energy, and the Environment, Dincer, Ibrahim Midilli Adnan Kucuk, Haydar, Editor, Springer International Publishing, pp.783-790, 2017
- XII. **Investigation of Heat Storage Performance of a Solar Pond with Potassium Chloride**
KARAKILÇIK M., Bozkurt I., Balkaya I., Dincer I.
in: Progress in Clean Energy, Volume II: Novel Systems and Applications, Dincer I.,Ozgur Colpan C.,Kizilkan O., Ezan MA., Editor, Springer-Verlag , Gewerbestrasse, pp.239-250, 2015
- XIII. **Performance Comparison of Sodium and Magnesium Chloride-Saturated Solar Ponds**
Bozkurt I., Deniz S., KARAKILÇIK M., Dincer I.
in: Progress in Clean Energy, Volume II Novel Systems and Applications, Dincer I.,Ozgur Colpan C.,Kizilkan O., Ezan MA., Editor, Springer-Verlag , Gewerbestrasse, pp.251-259, 2015
- XIV. **Investigation of Effect of Using Evacuated Tube Solar Collector on Solar Pond Performance**
Atiz A., Bozkurt I., KARAKILÇIK M., Dincer I.
in: Progress in Clean Energy, Volume II: Novel System and Applications, Dincer I.,Ozgur Colpan C.,Kizilkan O., Ezan MA., Editor, Springer-Verlag , Gewerbestrasse, pp.261-273, 2015
- XV. **Investigation of Turbidity Effect on Energy Transmission in a Solar Pond**
Atiz A., Bozkurt I., KARAKILÇIK M., Dincer I.
in: Progress in Exergy, Energy, and the Environment, Dincer I.,Midilli A.,Kucuk H., Editor, Springer-Verlag , Gewerbestrasse, pp.773-781, 2014
- XVI. **Investigation of Exergy Ratios of a Solar Pond**
KARAKILÇIK M., Dincer I.

in: Progress in Exergy, Energy, and the Environment, Dincer I.,Midilli A.,Kucuk H., Editor, Springer-Verlag ,
Gewerbstrasse, pp.267-278, 2014

XVII. Performance Assessment of a Small Solar Pond Stratified with Magnesium Chloride Water

Deniz S., Bozkurt I., KARAKILCIK M., Dincer I.

in: Progress in Exergy, Energy, and the Environment, Dincer I.,Midilli A.,Kucuk H., Editor, Springer-Verlag ,
Gewerbstrasse, pp.243-250, 2014

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
- II. Hydrogen Production Flat Plate Solar Collector Integrated With PV-T**
Atız A., Karakılçık M., Erden M.
23rd World Hydrogen Energy Conference (WHEC-2022), İstanbul, Turkey, 26 - 30 June 2022, pp.177-179
- III. A New Experimental Investigation On Hydrogen Production Of NaCl, KCl and CaCl₂ Solutions Through Chloralkali Reactor**
Erden M., Karakılçık M.
23rd World Hydrogen Energy Conference (WHEC-2022), İstanbul, Turkey, 26 - 30 June 2022, pp.177-179
- IV. Investigation Of Electricity, Hydrogen And Clean Water Production With Renewable Energy System Integrated Onto A Ship**
Erden M., Atız A., Karakılçık H., Karakılçık M.
23rd World Hydrogen Energy Conference (WHEC-2022), İstanbul, Turkey, 26 - 30 June 2022, pp.170-172
- V. Parabolic Trough Solar Collector Integrated With Solar Pond For Electricity And Hydrogen Production Based On Solar Energy**
Damarseçkin S., Atız A., Karakılçık M.
23rd World Hydrogen Energy Conference (WHEC-2022), İstanbul, Turkey, 26 - 30 June 2022, pp.73-76
- VI. Su Soğutmalı Farklı Yüzey Alanlı Fotovoltaik Termal (PV-T) Güneş Kolektörlerinin Enerji Performansının İncelenmesi**
Atız A., Karakılçık M., Soğukpınar H., Bozkurt İ.
MEDITERRANEAN SUMMIT, 7th INTERNATIONAL APPLIED SCIENCES CONGRESS, Mersin, Turkey, 12 - 13 March 2022, pp.31-37
- VII. Hidrojen Gazı ve Sıvı Sodyum Hidroksit Üretimi İçin Membran Hücre Prosesinin Sayısal İncelenmesi**
Karakılçık M., Atız A.
MEDITERRANEAN SUMMIT, 7th INTERNATIONAL APPLIED SCIENCES CONGRESS, Mersin, Turkey, 12 - 13 March 2022, pp.23-30
- VIII. Silindirik Güneş Havuzunun Üç Boyutlu Modellenmesi**
Soğukpınar H., Bozkurt İ., Atız A., Karakılçık M.
MEDITERRANEAN SUMMIT, 7th INTERNATIONAL APPLIED SCIENCES CONGRESS, Mersin, Turkey, 12 - 13 March 2022, pp.38-45
- IX. Investigation of hydrogen production performance at different mass flow rates by upgrading the temperatures of geothermal resource fluids at different medium temperatures with PTSCs in an integrated system**
Karakılçık H., Atız A., Karakılçık M.
6th International Hydrogen Technologies Congress (IHTEC-2022), İstanbul, Turkey, 23 January - 26 October 2022, pp.183-185
- X. Investigation of Hydrogen and Heat Generation Performance of Water-Cooled Photovoltaics for Different Mass Flow Rates**
Atız A., Karakılçık M., Erden M.

6th International Hydrogen Technologies Congress (IHTEC-2022), Çanakkale, Turkey, 23 - 26 January 2022, pp.154-156

- XI. **AA New Experimental Study On Comparison Of Hydrogen Production Performance Of NaCl and KCl Electrolytes Via Electrochemical Process Based Chloralkali Reactor**
Erden M., Karakılçık M.
6th International Hydrogen Technologies Congress (IHTEC-2022), Çanakkale, Turkey, 23 - 26 January 2022, pp.256-258
- XII. **Jeofizik Yöntemlerle Doğal Gaz Depolama Rezervuarlarının Belirlenmesi**
KARAKILÇIK H., KARAKILÇIK M.
Mathematics - Engineering- Science and Medical Studies, Euro Asia 5th. International Congress on Applied Sciences, Adana, Turkey, 15 - 17 November 2019, pp.420-427
- XIII. **Yeraltı Tuz Mağaralarının Hidrojen Depolama Potansiyelinin İncelenmesi**
KARAKILÇIK M., KARAKILÇIK H.
Mathematics - Engineering- Science and Medical Studies, Euro Asia 5th. International Congress on Applied Sciences, Adana, Turkey, 15 - 17 November 2019, pp.487-494
- XIV. **Parabolic Trough Solar Collectors With A Low-Temperature Geothermal Source For Electricity And Hydrogen Production**
ATIZ A., KARAKILÇIK H., KARAKILÇIK M.
World Energy Strategies Congress and Exhibition (WESCE'19), İstanbul, Turkey, 26 - 28 August 2019, pp.104-108
- XV. **Investigation of Hydrogen Storage Potential of Tuz Golu Underground Salt Caverns**
San S., Karakılçık H., Karakılçık M.
World Energy Strategies Congress and Exhibition (WESCE'19), İstanbul, Turkey, 26 - 28 August 2019, pp.153-156
- XVI. **Energy, Exergy And Economic Analyses Of A Heat Pump Integrated With Solar Pond For Domestic Heating**
Atız A., Karakılçık H., Karakılçık M.
World Energy Strategies Congress and Exhibition (WESCE'19), İstanbul, Turkey, 26 - 28 August 2019, pp.109-113
- XVII. **INVESTIGATION OF PERFORMANCE OF SURFACE WATER COOLED PHOTOVOLTAIC PANEL**
KARAKILÇIK M.
World Energy Strategies Congress and Exhibition (WESCE'19), İstanbul, Turkey, 26 - 28 August 2019, pp.149-152
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- XIX. **Power generation with integrated parabolic trough solar collectors based on solar energy and a low-grade temperature geothermal source**
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- XX. **Daily performance of evacuated tube solar collectors for domestic heating applications**
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- XXII. **Investigation Of Hydrogen Production Performance Of An Integrated System Based On Low-Temperature Geothermal Resources And Solar Energy**
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- KARAKILÇIK M., Öksüz H. İ., Project Supported by Higher Education Institutions, Yüzey Su Soğutmalı Fotovoltaik Panelin Performansının Araştırılması, 2016 - 2020
- AKYÜZ A., KARAKILÇIK M., ŞENKAL O., AKSAKER N., YILDIZ B. Y., Project Supported by Higher Education Institutions, ÇÜ UZAYMERe mini Güneş Enerjisi Santrali Araştırma Uygulama ve Eğitimi Sisteminin Kurulması, 2018 - 2019
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- KARAKILÇIK M., Project Supported by Higher Education Institutions, Potasyum Klorür Tabakalı Güneş Havuzunun Performansının İncelenmesi, 2012 - 2016
- KARAKILÇIK M., Project Supported by Higher Education Institutions, Magnezyum Klorür Tabakalı Güneş Havuzunun Enerji ve Ekserji Verimlerinin İncelenmesi, 2012 - 2016
- AKYÜZ A., KARAKILÇIK M., YILDIZ B. Y., ALIŞ S., AKSAKER N., TOPAKSU M., SAYGAÇ T., ULUBAY SİDDİKİ A., Project Supported by Higher Education Institutions, Hakkı Ögelman Calistayi: Temel Bilimciler için Astronomi, 2015 - 2015
- KARAKILÇIK M., Project Supported by Higher Education Institutions, Hidrojen Enerjisi Üretmek İçin Güneş Kolektörleri ile Entegre Bir Güneş Havuzunun Performansının İncelenmesi, 2013 - 2015
- KARAKILÇIK M., Project Supported by Higher Education Institutions, Güneş Toplaçları ve Güneş Havuzundan Oluşan Entegre Bir Sistem Enerji ve Ekserji Veriminin Deneysel ve Teorik Olarak İncelenmesi ve Isıtma Uygulamaları, 2012 - 2015

Activities in Scientific Journals

International Journal Of Hydrogen Energy, Special Issue Editor, 2017 - 2018

Memberships / Tasks in Scientific Organizations

Hidrojen Teknolojileri Derneđi, Board Member, 2021 - Continues, Turkey

Hidrojen Teknolojileri Derneđi, Member, 2015 - Continues, Turkey

Scientific Refereeing

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, January 2022

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, January 2019

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, October 2018

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Publication: 109

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H-Index (Scopus): 18

Congress and Symposium Activities

9th International Symposium on Eastern Mediterranean Geology, Attendee, Antalya, Turkey, 2018

14th International Conference on Energy Storage (EnerSTOCK2018), Attendee, Turkey, 2018

2nd International Hydrogen Technologies Congress (IHTEC2017), Attendee, Adana, Turkey, 2017

2016 IEEE International Conference on Power and Renewable Energy (ICPRE 2016), Attendee, Shanghai, China, 2016

10th International Clean Energy Symposium (UTES2016), Attendee, İstanbul, Turkey, 2016

1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Attendee, Turkey, 2016

Hidrojen Enerjisi Teknolojileri, Attendee, İstanbul, Turkey, 2015

13th International Conference on Clean Energy (ICCE-2014), Attendee, İstanbul, Turkey, 2014

Sixth International Exergy, Energy and Environment Symposium (IEEES-6), Attendee, Rize, Turkey, 2013

2th International Green Energy Conference (IGEC-2), Attendee, Oshawa, Canada, 2006

2th International Exergy, Energy and Environment Symposium (IEEES-2), Attendee, Athens, Greece, 2005

1th International Exergy, Energy and Environment Symposium (IEEES-1), Attendee, İzmir, Turkey, 2003

4th International Thermal Energy Congress (ITEC 2001), Attendee, Turkey, 2001

Non Academic Experience

University of Ontario Institute of Technology

University of Ontario Institute of Technology

University of Ontario Institute of Technology

Ç.Ü. Ceyhan Meslek Yüksek Okulu

Ç.Ü. Hatay Eğitim Yüksek Okulu

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