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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABE-7401-2020

ScopusID: 56800992900

Yoksis Researcher ID: 16555



Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2014 - 2019

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2012 - 2014

Undergraduate, Marmara University, Faculty Of Engineering, Mechanical Engineering, Turkey 2005 - 2010

Dissertations

Doctorate, Döşemeden Isıtma Ve Soğutma Sistemlerinin Isı Transferi Karakteristiklerinin İncelenmesi, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2019

Postgraduate, HİDROELEKTRİK SANTRALLERDE ÇEVRESEL AKIŞ MİKTARININ BELİRLENMESİ VE ÇAMBAŞI HES ÖRNEĞİ, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2014

Research Areas

Mechanical Engineering, Energy, Thermodynamics

Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2023 - Continues

Assistant Professor, Hakkari University, Mühendislik Fakültesi, Makine Mühendisliği, 2020 - 2023

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2012 - 2019

Academic and Administrative Experience

Head of Department, Hakkari University, Mühendislik Fakültesi, Makine Mühendisliği, 2022 - 2023

Enerji Yönetimi Koordinatörü, Hakkari University, Rektörlük, 2022 - 2023

Head of Department, Hakkari University, Mühendislik Fakültesi, Makine Mühendisliği, 2022 - 2023

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Hakkari University, Mineral ve Enerji Kaynakları Uygulama ve Araştırma Merkezi, 2021 - 2023

Head of Department, Hakkari University, Lisansüstü Eğitim Enstitüsü, Termodinamik ABD, 2021 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Experimental and numerical investigations on the heat transfer characteristics of a real-sized radiant cooled wall system supported by machine learning**
Çolak A. B., AÇIKGÖZ Ö., Karakoyun Y., Koca A., DALKILIÇ A. S.
International Journal of Thermal Sciences, vol.191, 2023 (SCI-Expanded)
- II. **Case studies on local mixed convection heat transfer coefficients along a radiant heated wall subjected to displacement ventilation**
Camci M., Karakoyun Y., AÇIKGÖZ Ö., DALKILIÇ A. S.
Journal of Thermal Analysis and Calorimetry, vol.148, no.15, pp.7845-7854, 2023 (SCI-Expanded)
- III. **An experimental investigation on the radiant cooled wall's heat transfer characteristics in a fully conditioned real-sized living environment**
Koca A., Karakoyun Y., AÇIKGÖZ Ö., Dogu M., DALKILIÇ A. S.
Energy and Buildings, vol.277, 2022 (SCI-Expanded)
- IV. **Experimental investigation of mixed and forced convection generated by displacement ventilation with radiant wall heating**
Camci M., Karakoyun Y., AÇIKGÖZ Ö., DALKILIÇ A. S.
International Communications in Heat and Mass Transfer, vol.139, 2022 (SCI-Expanded)
- V. **Machine learning approach to predict the heat transfer coefficients pertaining to a radiant cooling system coupled with mixed and forced convection**
AÇIKGÖZ Ö., Çolak A. B., Camci M., Karakoyun Y., DALKILIÇ A. S.
International Journal of Thermal Sciences, vol.178, 2022 (SCI-Expanded)
- VI. **An experimental study on the heat transfer characteristics over a radiant cooled wall exposed to mixed and forced convection driven by displacement ventilation**
Camci M., Karakoyun Y., AÇIKGÖZ Ö., DALKILIÇ A. S.
International Communications in Heat and Mass Transfer, vol.135, 2022 (SCI-Expanded)
- VII. **A NUMERICAL STUDY AIMED AT FINDING OPTIMAL ARTIFICIAL NEURAL NETWORK MODEL COVERING EXPERIMENTALLY OBTAINED HEAT TRANSFER CHARACTERISTICS OF HYDRONIC UNDERFLOOR RADIANT HEATING SYSTEMS RUNNING VARIOUS NANOFLUIDS**
Çolak A. B., Karakoyun Y., AÇIKGÖZ Ö., YUMURTACI Z., DALKILIÇ A. S.
Heat Transfer Research, vol.53, no.5, pp.51-71, 2022 (SCI-Expanded)
- VIII. **An experimental investigation on the effect of use of nanofluids in radiant floor heating systems**
Karakoyun Y., AÇIKGÖZ Ö., KÜÇÜKYILDIRIM B. O., YUMURTACI Z., DALKILIÇ A. S.
Energy and Buildings, vol.252, 2021 (SCI-Expanded)
- IX. **A comparative study on convective heat transfer in indoor applications**
Camci M., Karakoyun Y., AÇIKGÖZ Ö., DALKILIÇ A. S.
Energy and Buildings, vol.242, 2021 (SCI-Expanded)
- X. **A comprehensive approach to analyze the discrepancies in heat transfer characteristics pertaining to radiant ceiling heating system**
Karakoyun Y., AÇIKGÖZ Ö., Çebi A., Koca A., Çetin G., DALKILIÇ A. S., Wongwises S.
Applied Thermal Engineering, vol.187, 2021 (SCI-Expanded)
- XI. **An experimental investigation on heat transfer characteristics arising over an underfloor cooling system exposed to different radiant heating loads through walls**
Karakoyun Y., AÇIKGÖZ Ö., YUMURTACI Z., DALKILIÇ A. S.
Applied Thermal Engineering, vol.164, 2020 (SCI-Expanded)

- XII. **Realistic experimental heat transfer characteristics of radiant floor heating using sidewalls as heat sinks**
AÇIKGÖZ Ö., Karakoyun Y., YUMURTACI Z., Dukhan N., DALKILIÇ A. S.
Energy and Buildings, vol.183, pp.515-526, 2019 (SCI-Expanded)
- XIII. **Comparison of environmental flow assessment methods with a case study on a runoff river-type hydropower plant using hydrological methods**
Karakoyun Y., Dönmez A. H., YUMURTACI Z.
Environmental Monitoring and Assessment, vol.190, no.12, 2018 (SCI-Expanded)
- XIV. **Electricity demand forecast of Turkey based on hydropower and windpower potential**
Dönmez A. H., Karakoyun Y., YUMURTACI Z.
Energy Sources, Part B: Economics, Planning and Policy, vol.12, no.1, pp.85-90, 2017 (SCI-Expanded)
- XV. **Environmental flow assessment for energy generation sustainability employing different hydraulic evaluation methods: Çambaşı hydropower plant case study in Turkey**
Karakoyun Y., YUMURTACI Z., Dönmez A. H.
Clean Technologies and Environmental Policy, vol.18, no.2, pp.583-591, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Hidroelektrik Santrallere Sürdürülebilir Bir Alternatif Olarak Güneş Enerjisi: Şelale HES Örneği**
KARAKOYUN Y.
Tesisat Mühendisliği, vol.200, pp.52-65, 2024 (Peer-Reviewed Journal)
- II. **An Experimental Investigation on Radiant Floor Heating Systems at Various Operating Conditions**
KARAKOYUN Y., AÇIKGÖZ Ö., DALKILIÇ A. S., YUMURTACI Z.
Journal of Thermal Engineering, vol.6, no.5, pp.751-771, 2020 (ESCI)
- III. **A Review of Flow Boiling in Mini and Microchannel for Enhanced Geometries**
ÇEBİ A., CELEN A., DÖNMEZ A. H., KARAKOYUN Y., CELEN P., CELLEK M. S., DALKILIÇ A. S., TANER T., wongwises s.
Journal of Thermal Engineering, vol.4, no.3, pp.2037-2074, 2018 (Scopus)
- IV. **Türkiye nin Hidrolik Potansiyeline Küresel Bir Bakış**
KARAKOYUN Y., YUMURTACI Z., DÖNMEZ A. H.
Enerji ve Çevre Dünyası, no.112, pp.38-54, 2014 (Peer-Reviewed Journal)
- V. **Hidroelektrik Santral Projelerinde Çevresel Akış Miktarının ve Çevresel Etkinin Değerlendirmesi**
KARAKOYUN Y., YUMURTACI Z.
Tesisat Mühendisliği, no.138, pp.4-16, 2013 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Environmental Flow Assessment Methods: A Case Study**
KARAKOYUN Y., YUMURTACI Z., DÖNMEZ A. H.
in: Exergetic, Energetic and Environmental Dimensions, , Editor, Academic Press in An Imprint of Elsevier, pp.1061-1075, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Humidity and Hydropower: Analysing the Effect of Temperature on Powerplant's Generation in Humid Climate**
KARAKOYUN Y.
3. Bilsel International World Science and Research Congress, İstanbul, Turkey, 17 - 18 February 2024, pp.86-95
- II. **How Air Temperature Shapes the Hydropower Plant's Performance, Including Continental Dynamics**

KARAKOYUN Y.

1. Bilsel International Sur Scientific Researches Congress, Diyarbakır, Turkey, 10 - 11 February 2024, pp.413-421

III. **A Comparative Analysis on The Effect of Precipitation on The Energy Production of Hydropower Plants**

KARAKOYUN Y.

3. International World Energy Conference, Kayseri, Turkey, 4 - 05 December 2023, pp.369-377

IV. **A COMPARATIVE STUDY ON ENERGY PRODUCTION FROM HYDROPOWER PLANTS CONSIDERING ENVIRONMENTAL FLOWS: A CASE STUDY**

KARAKOYUN Y.

2. International Black Sea Modern Scientific Research Congress, Turkey, 21 December 2022, pp.226-232

V. **ENERGY PRODUCTION FROM SOLID WASTE-A CASE STUDY FOR HAKKÂRI PROVINCE**

KARAKOYUN Y., YAKIŞ B.

2. International Congress on Scientific Advances, Turkey, 21 December 2022, pp.684

VI. **Hakkâri İli Enerji Görünümü: Fırsatlar ve Zorluklar**

KARAKOYUN Y.

Madencilik Çalıştayı, Hakkari, Turkey, 9 - 11 June 2022

VII. **USING NANOFLUIDS IN FLOOR HEATING SYSTEMS - A NEW APPROACH**

KARAKOYUN Y.

Actual Problems and Innovative Solutions of Life Safety in Ensuring Stability in Economic Sectors, Uzbekistan, 28 April 2022

VIII. **TECHNICALITY OF THE EXPERIMENTAL SETUP FOR THE INVESTIGATION OF RADIANT HEATING/COOLING SYSTEMS**

CAMCI M., KARAKOYUN Y., AÇIKGÖZ Ö., DALKILIÇ A. S.

6th INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 20 October 2021

IX. **An Experimental Study on the Heat Transfer Characteristics of a RadiantCooled Floor**

KARAKOYUN Y., AÇIKGÖZ Ö., YUMURTACI Z., DALKILIÇ A. S., ACAR B.

2nd International Conference onApplied Research in Engineering, Science andTechnology, Brüksel, Belgium, 5 - 07 June 2019, pp.1-16

X. **Experiments on Determination of Heat TransferCoefficients for a Radiant Heated Enclosure**

KARAKOYUN Y., DALKILIÇ A. S., YUMURTACI Z., AÇIKGÖZ Ö., DEMİRTAŞ S.

1st INTERNATIONALENGINEERING ANDTECHNOLOGY SYMPOSIUM, 3 - 05 May 2018

XI. **Experimental apparatus for the determination of heat transfer coefficients for radiant heating/cooling systems**

KARAKOYUN Y., DALKILIÇ A. S., YUMURTACI Z., ÇAKIR A., AYTEN F., TOKA M.

1th INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING SCIENCES: THAILAND 2017, Phuket, Thailand, 3 - 05 July 2017

XII. **EXPERIMENTAL AND NUMERICAL INVESTIGATION OF PRESSURE DROP PHENOMENON IN CHANNELS**

DÖNMEZ A. H., KARAKOYUN Y., YUMURTACI Z.

Conference of the International Journal of Arts & Sciences, 23 - 26 May 2016, vol.9, pp.35-36

XIII. **REDUCING THE ADVERSE EFFECTS OF HYDROPOWER PLANTS ON ENVIRONMENT BY USING ENVIRONMENTAL FLOW ASSESSMENT METHODOLOGIES**

KARAKOYUN Y., DÖNMEZ A. H., YUMURTACI Z.

Conference of the International Journal of Arts & Sciences, 23 - 26 May 2016, vol.9, pp.39-44

XIV. **MINIMUM FLOW ASSESSMENT BY USING DIFFERENT ENVIRONMENTAL FLOW ASSESSMENT METHODS A CASE STUDY**

KARAKOYUN Y., YUMURTACI Z.

INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS, 21 - 23 December 2016

XV. **EXPERIMENTAL INVESTIGATION OF THERMAL CONDUCTIVITY OF INSULATION MATERIALS**

KARAKOYUN Y., DÖNMEZ A. H., YUMURTACI Z.

INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS, 23 - 25 December 2015

XVI. **Assessment of Environmental Flow for Cambasi Hydropower Plant in Turkey**

Supported Projects

Karakoyun Y., Yumurtacı Z., Project Supported by Higher Education Institutions, Yoğunlaştırılmış Güneş Enerjisi Destekli Orman Atıklarından Hidrojen Üretiminin Sürdürülebilirlik Analizi, 2023 - 2024

Karakoyun Y., Açıkgöz Ö., Camcı M., Dalkılıç A. S., Project Supported by Higher Education Institutions, Isıtma Sezonunda Radyant Sistemlerle Beraber Farklı Hibrit İklimlendirme Sistemlerin Termal Konfora Etkisi, 2022 - 2024

Karakoyun Y., Açıkgöz Ö., Dalkılıç A. S., Project Supported by Higher Education Institutions, Radyant Yüzeyli Isıtma Sistemlerinde Havalandırmanın Isı Geçişi Karakteristiklerine Etkisinin İncelenmesi, 2019 - 2021

Karakoyun Y., Dalkılıç A. S., Açıkgöz Ö., Project Supported by Higher Education Institutions, Nano akışkanlarla radyant döşemeden ısıtmanın konveksiyon ve radyasyon açısından incelenmesi, 2015 - 2018

Metrics

Publication: 37

Citation (Scopus): 253

H-Index (WoS): 9

H-Index (Scopus): 10