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Publons / Web Of Science ResearcherID: AAG-9788-2021

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Research Areas

Energy, Fluid Mechanics, Fluid Machinery, Renewable Energy Systems, Alternative Energy Resources, Heating, Refrigerating and Air Conditioning, Computational fluid dynamics

Academic Titles / Tasks

Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, 2020 - Continues

Advising Theses

Kaya A. M., Bir açık deniz rüzgar türbini için yüzer platform sistemi tasarımı ve demirleme sisteminin hidrodinamik analizi, Postgraduate, S.ALKAN(Student), 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Thermal and mechanical properties of a new insulation composite material**
Kocyigit F., KAYA A. M.
MATERIALS TESTING, vol.65, no.9, pp.1453-1463, 2023 (SCI-Expanded)
- II. **Analysis of vapor compression refrigeration cycle using advanced exergetic approach with Taguchi and ANOVA optimization and refrigerant selection with enviroeconomic concerns by TOPSIS analysis**
USTAOĞLU A., KURŞUNCU B., KAYA A. M., ÇALIŞKAN H.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.52, 2022 (SCI-Expanded)
- III. **Examination of the performance effects of refrigerants in a multistage refrigeration cycle using advanced exergy analysis**
Kaya A. M.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.19, no.7, pp.6163-6182, 2022 (SCI-Expanded)
- IV. **Investigation of a cross-flow turbine under natural conditions**
KAYA A. M., ÖZDEMİR Y. H., YİĞİT K. S.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.47, no.1, 2022 (SCI-Expanded)
- V. **THERMODYNAMICAL STUDY AND TAGUCHI OPTIMIZATION OF A TWO-STAGE VAPOR COMPRESSION**

REFRIGERATION SYSTEM

KAYA A. M.

Thermal Science, vol.26, no.5 Part A, pp.3951-3963, 2022 (SCI-Expanded)

- VI. **Mesoscale Morphologies of Nafion-Based Blend Membranes by Dissipative Particle Dynamics**
Sen U., Ozdemir M., ERKARTAL M., KAYA A. M., Manda A. A., Oveisi A. R., Ali Aboudzadeh M., Tokumasu T.
PROCESSES, vol.9, no.6, 2021 (SCI-Expanded)
- VII. **Investigation of Optimum Working Conditions of a Micro Cross Flow Turbine**
Kaya A. M., Kandemir I., Aksit M. F., YİĞİT K. S.
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.34, no.5, pp.1506-1511, 2015 (SCI-Expanded)
- VIII. **Molecular dynamics simulation of compressible hot/cold moving lid-driven microcavity flow**
Kandemir I., Kaya A. M.
MICROFLUIDICS AND NANOFUIDICS, vol.12, pp.509-520, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Çok Kademeli Buhar Sıkıştırma İdeal Soğutma Çevrimlerinde Farklı Soğutucu Akışkanlar Kullanarak Enerji ve Ekserji Analizi**
KAYA A. M.
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.8, pp.42-55, 2021 (Peer-Reviewed Journal)
- II. **NUMERICAL INVESTIGATION OF THE EFFECTS OF CONE TIP DIAMETERS ON THE EFFICIENCY OF A CYCLONE SEPARATOR**
KAYA A. M., ÖZKAN M.
European Journal of Technique, vol.10, no.2, pp.395-401, 2020 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Endüstriyel Tip Ön Isıtıcı Siklon Ayırıcı Tasarımı ve İmalatı**
Kaya A. M., Coşkun S.
in: Mühendislikte Öncü ve Çağdaş Çalışmalar, Yiğit Enes, Özkaya Umut, Editor, Duvar, İzmir, pp.257-270, 2023
- II. **Performance Evaluation of R-290 as a Substitute for R-22 in a Domestic Refrigerator by Advanced Exergy Analysis Method**
KAYA A. M., USTAOĞLU A., Alptekin M.
in: Proceedings of the 2022 International Symposium on Energy Management and Sustainability, Sogut, M.Z., Karakoc, T.H., Secgin, O., Dalkiran, A., Editor, Springer Cham, pp.555-562, 2023
- III. **Energy Analysis of a Solar Air Heater with a Fin-Added Absorber**
USTAOĞLU A., GÖK M. S., KAYA A. M., Amjed Z., Altok T., KOÇYİĞİT F.
in: Proceedings of the 2022 International Symposium on Energy Management and Sustainability, Sogut, M.Z., Karakoc, T.H., Secgin, O., Dalkiran, A., Editor, Springer, Cham, pp.819-825, 2023
- IV. **RADYAL FAN PERFORMANS ANALİZİ İÇİN AMCA 210 STANDARDINDA DÜZENEK KURULUMU VE DÜZELTİCİNİN ETKİSİNİN İNCELENMESİ**
DOĞRUOĞLU D., KAYA A. M.
in: Mühendislik Alanında Uluslararası Araştırmalar - I, özalp, Coşkun; Hürdoğan, Ertaç, Editor, Serüven Yayınevi, İzmir, pp.197-211, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Radyal Fan Performans Analizi İçin AMCA 210 Standardında Düzenek Kurulumu ve Düzelticinin Etkisinin İncelenmesi**

DOĞRUOĞLU D., KAYA A. M.

1st International Conference on Scientific and Academic Research ICSAR 2022, Konya, Turkey, 10 - 13 December 2022, pp.366

II. Energy Analysis of a Solar Air Heater with Fin Added Absorber

Ustaoğlu A., Gök M. S., Kaya A. M., Amjed Z., Altok T., Koçyiğit F.

International Symposium on Energy Management and Sustainability (ISEMAS) 2022, İstanbul, Turkey, 5 - 09 April 2022, pp.187

III. Performance evaluation of r290 as a substitute to r22 in a domestic refrigerator by advanced exergy analysis method

KAYA A. M., USTAOĞLU A., Alptekin M.

International Symposium on Energy Management and Sustainability (ISEMAS) 2022, İstanbul, Turkey, 09 April 2022

IV. MULTI-OBJECTIVE OPTIMIZATION OF A MULTISTAGE VAPOR COMPRESSION REFRIGERATION CYCLE

USTAOĞLU A., KURŞUNCU B., KAYA A. M., ÇALIŞKAN H.

TUBA World Conference on Energy Science and Technology (TUBA WCEST-2021), Turkey, 8 - 20 August 2021

V. Exergy Analysis of the Performances of Variable Refrigerants on a Two-stage Refrigeration System

KAYA A. M.

IV. International Congress on New Trends in Science, Engineering and Technology (ICONTRENDS), St.Petersburg, Russia, 7 - 09 July 2020, pp.26

VI. Parametric Energy Analysis of the Performances of Various Refrigerants on a Multistage Refrigeration System

KAYA A. M.

ICSEEC: Sustainable Energy and Energy Calculations, 4 - 05 September 2020, pp.6

VII. Computational Investigation of the Effect of Sliding Valve on a Cross Flow Turbine

KAYA A. M., KANDEMİR İ., ERMAN ÖNGÜÇ Ö.

ENTECH 'xx15 / III. International Energy Technologies Conference, İstanbul, Turkey, 21 - 22 December 2015, pp.144-149

VIII. A hardware test setup for grid connected and island operation of micro hydro power generation systems

DAL M., KAYA A. M., AKŞİT M. F., YİĞİT K. S., KANDEMİR İ., YÜKSEL E.

2010 IEEE International Energy Conference, Manama, Bahrain, 18 - 22 December 2010

IX. ÜLKEMİZDE HİBRİD ELEKTRİKLİ ARAÇLARIN GELECEĞİ

KAYA A. M., KANDEMİR İ., Benli M.

OTEKON'10 5. Otomotiv Teknolojileri Kongresi, Bursa, Turkey, 7 - 08 June 2010

Expert Reports

I. Mekân İçerisinde Pencere Altında Bulunan Radyatörlerin Etrafına Yerleştirilen Engellerin Deneysel Olarak İncelenmesi

KAYA A. M.

2015

Supported Projects

KAYA A. M., COŞKUN S., DOĞRUOĞLU D., Project Supported by Higher Education Institutions, Siklon Ayırıcılarda Koni Ucu Çapının Siklon Toplama Verimine ve Basınç Düşüşüne Etkisinin Deneysel İncelenmesi, 2020 - 2024

Patent

Kaya A. M., apraz akıř trbinlerinde srgl vana ile g kontrol, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: TR 2012 05779 B , Standard Registration, 2012

Metrics

Publication: 24

Citation (WoS): 17

Citation (Scopus): 30

H-Index (WoS): 3

H-Index (Scopus): 4

Non Academic Experience

BİLİM SANAYİ VE TEKNOLOJİ BAKANLIĞI