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Education Information

Doctorate, İstanbul University-Cerrahpaşa, Lisansüstü Eğitim Enstitüsü, Makine Mühendisliği (Dr), Turkey 2015 - 2021

Postgraduate, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 2012 - 2014

Undergraduate, Anadolu University, İşletme Fakültesi, İşletme Bölümü, Turkey 2008 - 2012

Undergraduate, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü, Turkey 2007 - 2011

Dissertations

Doctorate, RÜZGÂR TÜRBİNİ KANATLARININ HESAPLAMALI AEROAKUSTİK ANALİZİ, İstanbul University-Cerrahpaşa, Lisansüstü Eğitim Enstitüsü, Makine Mühendisliği (Dr), 2021

Postgraduate, Yoğunlaştırılmış güneş enerjisi bileşenlerinin analizi ve tasarımı, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 2014

Research Areas

Mechanical Engineering, Energy, Thermodynamics, Engineering and Technology

Courses

Termodinamik, Undergraduate, 2022 - 2023, 2021 - 2022

Mühendislik Etiği, Undergraduate, 2022 - 2023

Mesleki Sorumluluk ve Etik, Undergraduate, 2022 - 2023

Afet Bilinci, Undergraduate, 2022 - 2023, 2021 - 2022

Isıtma ve Havalandırma, Undergraduate, 2022 - 2023

Hidrolik ve Pnömatik, Undergraduate, 2021 - 2022

Yenilenebilir Enerji Sistemleri, Undergraduate, 2021 - 2022

Isı Transferi, Associate Degree, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Thermodynamic Analysis of a Marine Diesel Engine Waste Heat-Assisted Cogeneration Power Plant Modified with Regeneration Onboard a Ship**

Kepekci H., Ezgi C.

Journal of Marine Science and Engineering, vol.12, no.9, 2024 (SCI-Expanded)

II. Thermodynamic Analysis of Marine Diesel Engine Exhaust Heat-Driven Organic and Inorganic Rankine Cycle Onboard Ships

Ezgi C., Kepekci H.

Applied Sciences (Switzerland), vol.14, no.16, 2024 (SCI-Expanded)

III. Design and Thermodynamic Analysis of Waste Heat-Driven Liquid Metal–Water Binary Vapor Power Plant Onboard Ship

Kepekci H., Ezgi C.

Journal of Marine Science and Engineering, vol.12, no.8, 2024 (SCI-Expanded)

Articles Published in Other Journals

I. Examination of Thermal Dispersion and Airflow within a Refrigerator

MOLANI N., KEPEKCI H.

Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.39, no.3, pp.695-707, 2024 (Peer-Reviewed Journal)

II. Numerical investigation of the thermal and acoustic effect of material variations on the exhaust muffler

KEPEKÇİ H. İ., Agca M. E.

International Journal of Automotive Engineering and Technologies, vol.13, no.1, pp.33-44, 2024 (Peer-Reviewed Journal)

III. Numerical Investigation of the Thermal Effect of Material Variations on the Brake Disc

KEPEKÇİ H. İ., Agca M. E.

International Journal of Pioneering Technology and Engineering, vol.2, no.2, pp.135-141, 2023 (Peer-Reviewed Journal)

IV. Investigation of the Effect of Hot Fluid on Deformation in T-Shaped Pipes by FSI Method Using Different Material

KEPEKÇİ H., ASLAN E.

Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.27, no.3, pp.643-659, 2023 (Peer-Reviewed Journal)

V. Investigation of the effect of the use of top deflectors on aerodynamic performance in vehicles with CFD analysis

KEPEKÇİ H. İ.

International Journal of Automotive Engineering and Technologies, vol.12, no.1, pp.44-50, 2023 (Peer-Reviewed Journal)

VI. Next Stop Zero Carbon: Focused on Electricity Generation

İREY H., KEPEKÇİ H. İ.

International Research Journal of Innovations in Engineering and Technology, vol.6, no.8, pp.1-7, 2022 (Peer-Reviewed Journal)

VII. CFD Analysis of Convection Heat Transfer in Corrugated Channels for Different Inclination Angle

KEPEKÇİ H. İ., ASLAN E.

SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.26, no.2, pp.333-341, 2022 (Peer-Reviewed Journal)

VIII. Comparative Numerical Aerodynamics Performance Analysis of NACA0015 and NACA4415 Airfoils

KEPEKÇİ H. İ.

International Journal of Engineering, Science & Information Technology (IJESTY), vol.2, no.1, pp.144-151, 2022 (Peer-Reviewed Journal)

IX. Modeling Study and Performance Investigation of a Thermoelectric Refrigerator

KEPEKÇİ H. İ., KOSA E., EZGİ C.

Mühendis ve Makina, vol.62, no.705, pp.715-730, 2021 (Peer-Reviewed Journal)

X. Ameliyathanelerde İş Sağlığı ve Güvenliği Açısından Risk Potansiyellerinin İrdelenmesi ve Aydınlatma Koşullarının Çalışanların Görsel Dikkat Düzeyi Üzerindeki Etkisinin İncelenmesi

KEPEKÇİ A. B., KEPEKÇİ H. İ.

OHS ACADEMY, vol.3, no.2, pp.156-161, 2020 (Peer-Reviewed Journal)

- XI. **Comparative Analysis Of Heat Sink Performance Using Different Materials**
KEPEKÇİ H. İ., ASMA A.
American Journal of Engineering Research, vol.9, no.4, pp.204-210, 2020 (Peer-Reviewed Journal)
- XII. **AEROACOUSTICS INVESTIGATIONS OF A WIND TURBINE FOR DIFFERENT VELOCITIES USING COMPUTATIONAL FLUID DYNAMICS SOFTWARE**
KEPEKÇİ H. İ., ZAFER B., Güven H. R.
MATTER: International Journal of Science and Technology, vol.5, no.3, pp.61-76, 2019 (Peer-Reviewed Journal)
- XIII. **Review:Aeroacoustic Analysis in Wind Turbines**
KEPEKÇİ H. İ., Güven H. R.
International Journal of Science, Environment and Technology, vol.8, no.3, pp.454-471, 2019 (Peer-Reviewed Journal)
- XIV. **Bioenergy Potential for Energy Generation from Agriculture in Turkey**
KEPEKÇİ H. İ.
European International Journal of Science and Technology, vol.8, no.3, pp.1-14, 2019 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **CFD Investigation of the Thermal Effect of Material Variation on the Exhaust Manifold**
KEPEKÇİ H. İ., Agca M. E.
in: Makina Mühendisliği Alanında Güncel Çalışmalar, , Editor, Platanus Publishing, Ankara, pp.91-111, 2024
- II. **THERMAL ENERGY STORAGE SYSTEMS**
KEPEKÇİ H. İ.
in: Engineering Sciences Issues, Opportunities and Researches, Kurt Halil İbrahim, Ergül Engin, Editor, Livre de Lyon, Lyon, pp.45-56, 2023
- III. **The Effect of Baffle Plate Use in Shell and Tube Heat Exchangers**
KEPEKÇİ H. İ.
in: International Research in Engineering Sciences, Assoc. Prof. Dr. Mustafa Altın, Editor, Eğitim Yayınevi, İstanbul, pp.73-91, 2022
- IV. **Renewable Energy Potential of Istanbul**
KEPEKÇİ H. İ.
in: Engineering and Architecture Sciences: Theory, Current Researches and New Trends 4, Assoc. Prof. Dr. Gülden SANDAL ERZURUMLU, Editor, IVPE, Cetinje, pp.27-43, 2022
- V. **Numerical Analysis Of Induction Heaters For Different Fluids And Number Of Pipes**
KEPEKÇİ H. İ.
in: Advances in Engineering Sciences, Assoc. Prof. Alper BİDEÇİ, Editor, Duvar Publishing, İzmir, pp.113-129, 2022
- VI. **Afetlerde Hesaplamalı Akışkanlar Dinamiği Yazılımı Kullanımı : SLOSH Modelin Çalışma Prensipleri**
KEPEKÇİ H. İ.
in: Doğa ve Mühendislik Bilimlerinde Güncel Tartışmalar 7, Çoğun Hikmet, Üzümş Hasan, Parlar İshak, Editor, Bilgin Kültür Sanat Yayınları, Ankara, pp.67-75, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of the Effect of Conical Ring Pipes on Thermal Performance in Heat Exchangers by CFD Method**
Kalfa M. B., KEPEKÇİ H. İ., ASLAN E.
24th Congress on Thermal Science and Technology with International Participation (ULIBTK'23), Ankara, Turkey, 06 September 2023, vol.2, pp.885-892

- II. **Fren Diski Geometrilerinin Isı Dağılımına Etkisinin CFD Yöntemiyle İncelenmesi**
KEPEKÇİ H. İ., Agca M. E.
INTERNATIONAL SYMPOSIUM ON AUTOMOTIVE SCIENCE AND TECHNOLOGY, Ankara, Turkey, 07 September 2023, vol.3, pp.53-63
- III. **Investigation of The Effect of the Use of Top Deflectors on Aerodynamic Performance in Vehicles with CFD Analysis**
KEPEKÇİ H. İ.
6th International Conference on Engineering Technologies (ICENTE'22), Konya, Turkey, 17 November 2022, pp.292-296
- IV. **CFD ANALYSIS OF SINGLE MODULE DESIGN FOR FLOATING SOLAR POWER PLANTS**
KEPEKÇİ H. İ., YURTSEVEN A., Bardak L.
14th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Sivas, Turkey, 18 July 2022, pp.619-627
- V. **Using of Renewable Energy at Airports**
KEPEKÇİ H. İ., MIZRAK K. C.
International World Energy Conference, Kayseri, Turkey, 3 - 04 December 2021, pp.237-245
- VI. **Numerical Investigation of Convective Heat Transfer and Friction Factor in Corrugated Channels**
ASLAN E., KEPEKÇİ H. İ.
23. Isı Bilimi ve Tekniği Kongresi, Gaziantep, Turkey, 08 September 2021, pp.1918-1925
- VII. **Numerical Analysis of Finned Pipe Performance Using Different Design and Material**
KEPEKÇİ H. İ.
5th International Iron & Steel Symposium, Karabük, Turkey, 1 - 03 April 2021
- VIII. **Modeling and Performance of a Thermoelectric Refrigerator**
KEPEKÇİ H. İ., KOSA E., EZGİ C.
5th International Anatolian Energy Symposium, Trabzon, Turkey, 24 - 25 March 2021
- IX. **Rejeneratif Türbin Pompası ve Santrifüj Pompa Karakteristiklerinin Deneysel Olarak Belirlenmesi ve Karşılaştırılması**
KEPEKÇİ H. İ., EZGİ C., KOSA E.
22. Isı Bilimi ve Tekniği Kongresi, Kocaeli, Turkey, 11 - 14 September 2019, vol.1
- X. **Analysis and Design of Concentrated Solar Power Components**
KEPEKÇİ H. İ.
4th International Conference of Advances in Mechanical Engineering, İstanbul, Turkey, 19 - 21 December 2018
- XI. **Design and Analysis of Industrial Heat Treatment Furnace**
KEPEKÇİ H. İ.
3rd International Conference of Energy Engineering, Gaziantep, Turkey, 18 October - 19 December 2018, pp.295-304
- XII. **Aeroacoustics Investigations of Unsteady 3D Airfoil for Different Angle Using Computational Fluid Dynamics Software**
KEPEKÇİ H. İ., ZAFER B., Güven H. R.
ICTETA 2018 : 20th International Conference on Thermal Engineering Theory and Applications, İstanbul, Turkey, 23 - 24 July 2018, vol.12, pp.813-820