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Personal Information

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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 tasarımları, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 2014

Research Areas

Mechanical Engineering, Energy, Thermodynamics, Engineering and Technology

Courses

Termodynamik, 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
İşı Transferi, Associate Degree, 2021 - 2022

Articles Published in Other Journals

- I. 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)
- II. 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)
- III. 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)
- IV. 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)
- V. 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)
- VI. 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)
- VII. Comparative Numerical Aerodynamics Performance Analysis of NACA0015 and NACA4415 Airfoils
KEPEKÇİ H. İ.
International Journal of Engineering, Science & InformationTechnology (IJESTY), vol.2, no.1, pp.144-151, 2022 (Peer-Reviewed Journal)
- VIII. 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)
- IX. Ameliyathanelerde İş Sağlığı ve Güvenliği Açılarından Risk Potansiyellerinin İrdelenmesi ve Aydınlatma Koşullarının Çalışanların Görisel Dikkat Düzeyi Üzerindeki Etkisinin İncelenmesi
KEPEKÇİ A. B., KEPEKÇİ H. İ.
OHS ACADEMY, vol.3, no.2, pp.156-161, 2020 (Peer-Reviewed Journal)
- X. 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)
- XI. 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)
- XII. 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)
- XIII. 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. **Numerical Analysis Of Induction Heaters For Different Fluids And Number Of Pipes**
KEPEKÇİ H. İ.
in: Advances in Engineering Sciences, Assoc. Prof. Alper BİDECİ, Editor, Duvar Publishing, İzmir, pp.113-129, 2022
- IV. **Afetlerde Hesaplamalı Akışkanlar Dinamiği Yazılımı Kullanımı : Slosh Modelin Çalışma Prensibi**
KEPEKÇİ H. İ.
in: Doğa ve Mühendislik Bilimlerinde Güncel Tartışmalar 7, Çoğun Hikmet, Üzmuş Hasan, Parlar İshak, Editor, Bilgin Kültür Sanat Yayıncılığı, Ankara, pp.67-75, 2022
- V. **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
- VI. **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

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