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Learning Knowledge

Doctorate 2020 - Continues	Pamukkale University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Turkey
Postgraduate 2017 - 2019	Pamukkale University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey
Undergraduate 2012 - 2016	Pamukkale University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey

Certificates, Courses and Trainings

Vocational Training, Space Claim, Numesys, 2023
Vocational Training, Fluent Meshing , Numesys, 2023
Vocational Training, Ansys Meshing, Numesys, 2023
Vocational Training, Havacılık Motorları Okulları, TEI AKADEMİ, 2022
Vocational Training, Ansys Fluent, ANOVA, 2018
Vocational Training, CATIA, Pamukkale Üniversitesi / Teknokent / Teknoloji Transfer Ofisi, 2017
Vocational Training, İleri Düzey Solidworks, Pamukkale Üniversitesi / Teknokent / Teknoloji Transfer Ofisi, 2016

Dissertations

Postgraduate, FARKLI BOYUTLARDA TERMOELEKTRİK JENERATÖRLER KULLANILARAK EGZOZ ISI ENERJİSİNİN GERİ KAZANIMI, Pamukkale University, Faculty Of Engineering, Department Of Mechanical Engineering, 2019

Academic Titles / Tasks

Lecturer 2021 - Continues	Istanbul Gelisim University, ISTANBUL GELISIM VOCATIONAL SCHOOL, MACHINERY
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Supported Projects

1. Yakar G., Gürçan A., Project Supported by Higher Education Institutions, Farklı Boyutlarda Termoelektrik Jeneratörler Kullanılarak Egzoz Isı Enerjisinin Geri Kazanımı, 2018 - 2019

Scholarships

Yüksek Lisans Bursu (KYK Bursu), YOK, 2018 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- 1. Different-sized thermoelectric cooler modules operated by a thermoelectric generator system**
Arıcıoğlu A. K., Yakar G., Gürcan A.
NUMERICAL HEAT TRANSFER; PART A: APPLICATIONS, vol.84, pp.1-26, 2023 (SCI-Expanded)
- 2. Improving the performance of a thermoelectric generator system utilizing the thermal energy of air compressed in the compressor of a turbocharged tractor based on different-sized modules**
Gürcan A., Yakar G.
Journal of the Brazilian Society of Mechanical Sciences and Engineering, vol.44, no.8, 2022 (SCI-Expanded)
- 3. Investigation of the performance of a thermoelectric generator system utilizing the thermal energy of air compressed in a compressor**
Gürcan A., Yakar G.
Journal of the Korean Physical Society, vol.80, no.6, pp.467-483, 2022 (SCI-Expanded)

Articles Published in Other Journals

- 1. Turboşarjlı Bir Traktör İçin Bir Termoelektrik Soğutucunun Optimizasyonu**
Arıcıoğlu A. K., Yakar G., Gürcan A.
Mühendis ve Makina, vol.65, no.715, pp.307-340, 2024 (Peer-Reviewed Journal)
- 2. BİR TERMOELEKTRİK JENERATÖR SİSTEMİNİN ISI ALICISININ ISIL PERFORMANSINA FARKLI DIŞ ORTAM SICAKLIKLARININ ETKİSİ**
GÜRCAN A., YAKAR G.
Adıyaman Üniversitesi Fen Bilimleri Dergisi, vol.8, no.15, pp.391-413, 2021 (Peer-Reviewed Journal)
- 3. Farklı Dış Ortam Sıcaklıklarında Kullanılan Bir Termoelektrik Jeneratör Sisteminin Isı Alıcısının Optimizasyonu**
GÜRCAN A., YAKAR G.
Mühendis ve Makina, vol.62, pp.332-349, 2021 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- 1. Bir Turboşarjlı Traktör İçin Farklı Boyutlu Termoelektrik Jeneratör Modülleri**
Gürcan A., Yakar G.
UBAK, Ankara, Turkey, 16 - 17 March 2024, pp.84-94
- 2. EFFECT OF DIFFERENT ENVIRONMENTAL TEMPERATURES ON HOT AND COLD SURFACE TEMPERATURES OF A THERMOELECTRIC GENERATOR MODULE**
Gürcan A., Yakar G.
2nd INTERNATIONAL 5 OCAK CONGRESS ON APPLIED SCIENCES, Adana, Turkey, 3 - 05 January 2021, pp.19-29
- 3. OPTIMUM FIN THICKNESSES OF COLD SIDE HEAT SINK OF THERMOELECTRIC GENERATOR USED IN TURBO - CHARGED SYSTEM**
Gürcan A., Yakar G.
4. INTERNATIONAL 19 MAYINNOVATIVE SCIENTIFICAPPROACHES CONGRESS, Samsun, Turkey, 21 - 22 December 2020, pp.311-319
- 4. OPTIMUM FIN THICKNESSES OF HOT SIDE HEAT SINK OF THERMOELECTRIC GENERATOR USED IN TURBO-CHARGED SYSTEM**

Gürcan A., Yakar G.

INTERNATIONAL EUROASIA Congress on Scientific Researches and Recent Trends-7, Baku, Azerbaijan, 6 - 09 December 2020, vol.1, pp.253-262

5. **Thermoelectric Generator Application in Turbocharged Systems**

Gürcan A., Yakar G.

Proceedings on 2nd International Conference on Technology and Science, Isparta, Turkey, 14 - 16 November 2019, pp.294-302

Academic and Administrative Experience

2021 - Continues	Internship Coordinator	Istanbul Gelisim University, ISTANBUL GELISIM VOCATIONAL SCHOOL, MACHINERY
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Courses

Akışkanlar Mekaniği, Associate Degree, 2024 - 2025
Modern İmalat Teknolojileri, Associate Degree, 2024 - 2025
Havacılık Dijital Sistemler I, Undergraduate, 2024 - 2025
Temel Fizik, Associate Degree, 2024 - 2025
Uçak Teknik Resim, Associate Degree, 2024 - 2025
Ölçme Teknikleri, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022
İmalat İşlemleri II, Associate Degree, 2023 - 2024, 2020 - 2021
Bilgisayar Destekli Çizim, Associate Degree, 2023 - 2024
Termodinamik, Associate Degree, 2023 - 2024, 2022 - 2023
Bakım Uygulamaları II, Associate Degree, 2022 - 2023
İnsansız Hava Aracı Tasarımı, Associate Degree, 2023 - 2024
İmalat İşlemleri I, Associate Degree, 2023 - 2024
Malzeme Teknolojisi, Associate Degree, 2023 - 2024
Bakım Uygulamaları II, Associate Degree, 2022 - 2023
Malzeme Teknolojisi, Associate Degree, 2023 - 2024
İnsansız Hava Aracı Tasarımı, Associate Degree, 2023 - 2024
Bakım Uygulamaları I, Associate Degree, 2022 - 2023
Bilgisayar Destekli Tasarım, Associate Degree, 2022 - 2023
Bakım Uygulamaları I, Associate Degree, 2022 - 2023
Gaz Tübinli Motorlar I, Associate Degree, 2021 - 2022
Gaz Türbinli Motorlar ve Uygulamaları I, Undergraduate, 2021 - 2022
Üretim Tesisleri Tasarımı, Associate Degree, 2020 - 2021
Termodinamik, Associate Degree, 2020 - 2021
Termodinamik, Associate Degree, 2020 - 2021
Gaz Türbinli Motorlar II, Associate Degree, 2021 - 2022
Gaz Türbinli Motorlar II, Associate Degree, 2021 - 2022

Metrics

Publication: 11

Citation (Scopus): 3

H-Index (Scopus): 1

Research Areas

Thermodynamics, Heat and Mass Transfer, Computational fluid dynamics

Non Academic Experience

Company, UŐAK SERAMİK SANAYİİ A.Ő., Ağır Bakım

Company, ÖZİŐ Pres ve Talashlı İmalat, Üretim