

## Prof. Dr. HAKAN ÇALIŞKAN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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### Biyografi

Prof. Dr. Hakan ÇALIŞKAN Türkiye'de alanında en genç Profesör ünvanını almıştır. Makine Mühendisliği (Termodinamik) alanında 2007 yılında Lisans (Pamukkale Üniversitesi), 2009 yılında Yüksek Lisans (Eskişehir Osmangazi Üniversitesi), 2012 yılında doktora (Ege Üniversitesi) eğitimlerinin tamamını birincilikle tamamlamıştır. Kanada'da University of Ontario Institute of Technology'de Araştırmacı unvanıyla, Japonya'da Teikyo University'de Ziyaretçi Profesör unvanıyla, Güney Kore'de Kyung Hee University'de Profesör unvanıyla bilimsel araştırma çalışmaları yaparak projelerde görev almış ve akademisyenlik faaliyetlerinde bulunmuştur. Yüzdenden fazla uluslararası makalesi, bildirisi, kitabı ve kitap bölümü bulunmaktadır. Ayrıca yürütücü olduğu ulusal projeleri (TÜBİTAK-1001 projesi, BAP projesi, vb), uluslararası proje görevleri, ulusal makaleleri, ulusal bildirileri, ulusal kurs notları olmak üzere çok sayıda akademik çalışması bulunmaktadır. Uluslararası SCI/SCIE/SSCI/Diğer indeksli Yardımcı Editör/Konuk Editör/ Editör Kurulu üyeliği görevleri bulunmaktadır. Ayrıca yüksek etki değerli birçok SCI ve SCIE indeksli dergide aktif hakem olarak görev yapmaktadır. Çok sayıda uluslararası konferanslarda/sempozyumlarda başkanlık, organizasyon komitesi üyeliği, bilim kurulu üyeliği, teknik komite üyeliği yapmıştır. TÜBİTAK, Türkiye Bilim Sanayi ve Teknoloji Bakanlığı, KOSGEB, Latvian Science Council, National Science Centre (NCN) of Poland, National Centre of Science and Technology Evaluation (NCSTE) of Kazakhstan, Italian Ministry for Education-University and Research (MIUR), Innovation Fund Denmark (IFD), Eurostars-EUREKA, INNOWIDE, HORIZON, COST projelerinde panelist, raportör, komisyon üyesi ve hakem olarak görev yapmaktadır. Lisans, Yüksek Lisans ve Doktora Birincilik Ödülleri yanı sıra, Uşak Üniversitesi tarafından çeşitli yıllarda verilen Akademik Performans, Atf ve Yayın ödülleri de almıştır. Uşak Üniversitesi Enerji, Çevre ve Sürdürülebilirlik (ENÇES) Uygulama ve Araştırma Merkezini kurmuş, ayrıca Enerji ve Çevre Bilimleri Anabilim Dalını kurarak lisansüstü eğitim öğretim faaliyetlerine katkıda bulunmuş ve görev yaptığı Teikyo University ile ikili anlaşma sağlayarak burslu öğrenci değişimi ve öğretim üyesi değişimi imkanı sağlamıştır. 2007 yılından itibaren Uşak Üniversitesinin akademik personeli olan Prof. Dr. Hakan Çalışkan, Ege Üniversitesinde Araştırma Görevlisi, University of Ontario Institute of Technology'de Araştırma Görevlisi, Teikyo University'de ziyaretçi araştırmacı, Kyung Hee University'de (en iyi ilk 500 üniversite arasında) Profesör unvanlarıyla çalışmıştır. Halen, Uşak Üniversitesi Mühendislik Fakültesi Makine Mühendisliği Bölümü Termodinamik Anabilim Dalında çalışmalarına devam etmektedir. Araştırma alanları; termodinamik, ısı transferi, akışkanlar mekaniği enerji, ekserji, verimlilik, termoekonomi ve çevresel analizler, enerji ve çevre politikaları, enerji sistemleri, içten yanmalı motorlar, emisyon iyileştirme sistemleri, egzoz emisyonları ve nanopartiküller, enerji verimli binalar, yakıtlar, termal enerji depolama sistemleri, ısı değiştiriciler, ısı pompaları, yenilenebilir enerji (rüzgar, güneş, vb.), hidrojen, ısıtma ve soğutma sistemleri, vb. şeklindedir. **h indeksi değeri 31, i-10 indeksi değeri 62'dir.**

(<https://www.adscientificindex.com/scientist/hakan-caliskan/209702>). Mendeley tarafından hazırlanan "Dünyanın En Etkili Bilim İnsanları Listesi"nde yer almaktadır (%2'lik dilim) (<https://data.mendeley.com/datasets/btchxktzyw/2>) ve (<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4>).

Türkiye'de en fazla atf alan ve h-indeksi en yüksek 6000 akademisyen arasında yer almaktadır

([https://www.researchgate.net/publication/349075094\\_Turkiye%27de\\_en\\_cok\\_atif\\_alan\\_ve\\_H\\_index%27i\\_en\\_yuksek\\_6000\\_akademisyen](https://www.researchgate.net/publication/349075094_Turkiye%27de_en_cok_atif_alan_ve_H_index%27i_en_yuksek_6000_akademisyen)).

"Enerji-Ekserji-Termodinamik-Isı Transferi-Çevre" araştırma alanlarında, bilim adamı sıralaması şu şekildedir: Uşak Üniversitesinde 1.,

Türkiyede 65., Avrupa'da 332., Dünyada 1211. <https://www.adscientificindex.com/scientist.php?id=209702>

### Eğitim Bilgileri

Post Doktora, Kyung Hee University, College of Engineering, Department of Mechanical Engineering, Güney Kore 2017 - 2018

Post Doktora, Teikyo University, Faculty of Science & Engineering, Department of Mechanical & Precision System Engineering, Japonya 2016 - 2016

Doktora, Ege Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr) (Tezli), Türkiye 2009 - 2012  
Post Doktora, University of Ontario Institute of Technology (Ontario Tech University), Faculty of Engineering and Applied Science, Department of Mechanical and Manufacturing Engineering, Kanada 2010 - 2011  
Yüksek Lisans, Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Türkiye 2007 - 2009  
Lisans, Pamukkale Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Türkiye 2003 - 2007

## Yaptığı Tezler

Doktora, Özgün ısı enerji depolama sistemlerinin analizi ve performans değerlendirmesi, Ege Üniversitesi, Fen Bilimleri Enstitüsü, Termodinamik (Dr), 2012  
Yüksek Lisans, İtçan yanmalı motorlarda ekserji analizi, Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 2009

## Araştırma Alanları

Makina Mühendisliği, Petrol ve Doğal Gaz Mühendisliği, Havacılık ve Uzay Mühendisliği

## Akademik Unvanlar / Görevler

Prof. Dr., Uşak Üniversitesi, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, Makine Mühendisliği Bölümü, 2021 - Devam Ediyor  
Doç. Dr., Uşak Üniversitesi, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, Makine Mühendisliği Bölümü, 2015 - 2021  
Yrd. Doç. Dr., Uşak Üniversitesi, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, Makine Mühendisliği Bölümü, 2013 - 2015  
Araştırma Görevlisi Dr., Uşak Üniversitesi, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, Makine Mühendisliği Bölümü, 2012 - 2013  
Araştırma Görevlisi, Ege Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2010 - 2012  
Araştırma Görevlisi, Uşak Üniversitesi, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, Makine Mühendisliği Bölümü, 2007 - 2010

## Akademik İdari Deneyim

Anabilim/Bilim Dalı Başkanı, Uşak Üniversitesi, LİSANSÜSTÜ EĞİTİM ENSTİTÜSÜ, Enerji ve Çevre Bilimleri, 2019 - 2020  
Bölüm Başkanı, Uşak Üniversitesi, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, Makine Mühendisliği Bölümü, 2018 - 2020  
Anabilim/Bilim Dalı Başkanı, Uşak Üniversitesi, LİSANSÜSTÜ EĞİTİM ENSTİTÜSÜ, Makine Mühendisliği Anabilim Dalı, 2018 - 2020  
Anabilim/Bilim Dalı Başkanı, Uşak Üniversitesi, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, Makine Mühendisliği Bölümü, 2015 - 2020  
Merkez Müdürü, Uşak Üniversitesi, REKTÖRLÜK, Uşak Üniversitesi Enerji, Çevre ve Sürdürülebilirlik Uygulama ve Araştırma Merkezi, 2014 - 2018

## Verdiği Dersler

YAKITLAR VE YANMA, Lisans, 2016 - 2017  
ISI DEĞİŞTİRİCİLER, Lisans, 2016 - 2017, 2015 - 2016, 2014 - 2015  
TEZ ÇALIŞMASI, Yüksek Lisans, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014  
İLERİ TERMODİNAMİK, Doktora, 2016 - 2017, 2015 - 2016  
MAKİNE PROJE, Lisans, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014  
UZMANLIK ALAN DERSİ, Yüksek Lisans, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014  
YAKIT PİLİ SİSTEMLERİ, Yüksek Lisans, 2016 - 2017, 2014 - 2015  
TERMÖKONOMİ, Doktora, 2016 - 2017, 2013 - 2014  
MAKİNE MÜHENDİSLİĞİNE GİRİŞ, Lisans, 2016 - 2017  
ENERJİ SİSTEMLERİNİN YAŞAM ÇEVİRİMİ DEĞERLENDİRMESİ, Doktora, 2016 - 2017  
DERS DANIŞMANLIĞI, Yüksek Lisans, 2016 - 2017  
İÇTEN YANMALI MOTORLARIN İLERİ TERMODİNAMİĞİ, Yüksek Lisans, 2015 - 2016, 2014 - 2015, 2013 - 2014  
ISI TRANSFERİ, Lisans, 2015 - 2016, 2014 - 2015, 2013 - 2014

TEZ HAZIRLIK ÇALIŞMASI, Yüksek Lisans, 2015 - 2016, 2014 - 2015  
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ENERJİ SİSTEMLERİNİN ÇEVRESEL ANALİZİ, Doktora, 2014 - 2015  
İŞÇİ SAĞLIĞI VE İŞ GÜVENLİĞİ, Lisans, 2014 - 2015  
ISI POMPALARI VE UYGULAMALARI, Yüksek Lisans, 2013 - 2014, 2012 - 2013  
HAVALANDIRMA VE İKLİMLENDİRME SİSTEMLERİNDE VERİMLİLİK VE MODELLEME, Doktora, 2013 - 2014  
TERMODİNAMİK II, Lisans, 2013 - 2014  
SÜRDÜRÜLEBİLİR ENERJİ TEKNOLOJİLERİ, Doktora, 2013 - 2014  
DÜŞÜK EKSERJİLİ ISITMA VE SOĞUTMA SİSTEMLERİ, Yüksek Lisans, 2013 - 2014, 2012 - 2013  
İLERİ ISI VE KÜTLE TRANSFERİ, Yüksek Lisans, 2013 - 2014  
ENERJİ DEPOLAMA SİSTEMLERİ, Yüksek Lisans, 2012 - 2013  
ISI VE KÜTLE GEÇİŞİ, Lisans, 2012 - 2013  
AKIŞKANLAR MEKANİĞİ, Lisans, 2012 - 2013

## Yönetilen Tezler

Çalışkan H., İçten yanmalı motorlarda farklı egzoz arıtma sistemlerinin yakıt emisyonları üzerine etkisinin incelenmesi, Doktora, H.İBRAHİM(Öğrenci), 2024  
Çalışkan H., Farklı çevre koşullarının ve klima kullanımının elektrikli bir aracın enerji tüketimine ve menziline etkilerinin incelenmesi, Yüksek Lisans, E.MUHAMMED(Öğrenci), 2023  
Çalışkan H., Bir binek otomobilin ilk rölanti süresinin ve ortam koşullarının gerçek sürüş emisyonlarına etkilerinin incelenmesi, Yüksek Lisans, Y.SELİM(Öğrenci), 2022  
Çalışkan H., Enhanced thermodynamic analysis and assessment of a cogeneration system for a ceramic factory, Doktora, H.ÇAĞLAYAN(Öğrenci), 2020  
Çalışkan H., Thermodynamic analysis and emission assessment of a diesel engine fueled with various fuels, Yüksek Lisans, İ.YILDIZ(Öğrenci), 2018

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- I. **Impact of hydrogen induction on atomization combustion performance and emissions in diesel engines fueled with heated biodiesel blends**  
Yadav P. s., Said Z., Gautam R., ÇALIŞKAN H., Wu H.  
Energy, cilt.313, 2024 (SCI-Expanded)
- II. **A Comprehensive analysis of energy, exergy, economic and environment on integrated solarcombined cycle with various HTFs and thermal storage**  
Khandelwal N., Yadav P. S., Said Z., Sharma M., Shukla A. K., Singh O., Khandelwal D., ÇALIŞKAN H.  
Applied Energy, cilt.376, 2024 (SCI-Expanded)
- III. **Improving single-slope passive solar still efficiency through integration of phase change materials and Al2O3 nanoparticles**  
Khan Y., Said Z., Raman R., Singh P., Mehdi Rashidi M., ÇALIŞKAN H., Garg A.  
Journal of Thermal Analysis and Calorimetry, cilt.149, sa.21, ss.11807-11816, 2024 (SCI-Expanded)
- IV. **Nozzle effects on spray combustion and emissions in compression ignition engines using waste cooking oil biodiesel: A computational fluid dynamics analysis at varying injection pressures**  
Yadav P. S., Ahmed S. F. A., Gautam R., ÇALIŞKAN H., ÇALIŞKAN N., Hong H.  
IET Renewable Power Generation, cilt.18, sa.14, ss.2340-2359, 2024 (SCI-Expanded)
- V. **Analyzing the influence of feedstock selection in pyrolysis on aviation gas turbine engines: A study on performance, combustion efficiency, and emission profiles**  
GÜNERHAN A., Altuntas O., ÇALIŞKAN H.  
Energy, cilt.306, 2024 (SCI-Expanded)
- VI. **Investigating renewable and sustainable biofuel and biofuel/diesel blends utilizations in a turboshaft engine**

- used on helicopters  
Balli O., ÇALIŞKAN H.  
Energy, cilt.306, 2024 (SCI-Expanded)
- VII. **Prediction and optimisation of gasoline quality in petroleum refining: The use of machine learning model as a surrogate in optimisation framework**  
Saghir H., Ahmad I., Kano M., ÇALIŞKAN H., Hong H.  
CAAI Transactions on Intelligence Technology, cilt.9, sa.5, ss.1185-1198, 2024 (SCI-Expanded)
- VIII. **Artificial intelligence assisted prediction of optimum operating conditions of shell and tube heat exchangers: A grey-box approach**  
Ullah Z., Ahmad I., Samad A., Saghir H., Ahmad F., Kano M., Çalışkan H., Caliskan N., Hong H.  
CAAI Transactions on Intelligence Technology, cilt.0, sa.0, ss.1-10, 2024 (SCI-Expanded)
- IX. **Exergo-enviro-economic analyses of solar energy based novel air cooling system**  
Tripathi R. J., Kumar D., Caliskan H., Hong H.  
APPLIED THERMAL ENGINEERING, cilt.254, ss.1-20, 2024 (SCI-Expanded)
- X. **Advanced exergoeconomic analysis and mathematical modelling of the natural gas fired gas turbine unit used for industrial cogeneration system**  
Çağlayan H., Çalışkan H., Hong H., Çalışkan N., Kale U., Kilikevičius A.  
CASE STUDIES IN THERMAL ENGINEERING, cilt.61, sa.104969, ss.1-26, 2024 (SCI-Expanded)
- XI. **A data-driven multi-objective optimization approach for enhanced methanol yield and exergy loss minimization in direct hydrogenation of CO<sub>2</sub>**  
Samad A., Saghir H., Musawwir A., Ahmad I., ÇALIŞKAN H.  
Applied Thermal Engineering, cilt.251, 2024 (SCI-Expanded)
- XII. **Plant wide modelling and thermodynamic optimization of a petroleum refinery for improvement potentials**  
Sana A., Ahmad I., Saghir H., Kano M., ÇALIŞKAN H., Hong H.  
Process Safety and Environmental Protection, cilt.188, ss.64-72, 2024 (SCI-Expanded)
- XIII. **Energy, exergy, sustainability, thermoeconomic, exergoeconomic, environmental and environmental-economic effects of novel boron-containing open cell geopolymer filter of a diesel engine on exhaust emissions**  
KARALI H. İ., ÇALIŞKAN H.  
Energy, cilt.290, 2024 (SCI-Expanded)
- XIV. **Thermodynamic and exergoenvironmental assessments of solar-assisted combined power cycle using eco-friendly fluids**  
Khan Y., Raman R., Rashidi M. M., Said Z., ÇALIŞKAN H., Hoang A. T.  
Journal of Thermal Analysis and Calorimetry, cilt.149, sa.3, ss.1125-1139, 2024 (SCI-Expanded)
- XV. **Sustainable Power Generation Through Solar-Driven Integration of Brayton and Transcritical CO<sub>2</sub> Cycles: A Comprehensive 3E (Energy, Exergy, and Exergoenvironmental) Evaluation**  
Khan Y., Raman R., Said Z., ÇALIŞKAN H., Hong H.  
Global Challenges, cilt.8, sa.2, 2024 (SCI-Expanded)
- XVI. **Thermodynamics, Environmental and Sustainability Impacts of a Turbofan Engine Under Different Design Conditions Considering Variable Needs in the Aviation Industry**  
Aygün H., Sheikhi M. R., ÇALIŞKAN H.  
Global Challenges, cilt.8, sa.2, 2024 (SCI-Expanded)
- XVII. **Advanced exergy-based environmental analysis of a cogeneration system used for ceramic industry**  
Çağlayan H., ÇALIŞKAN H., Hong H.  
Journal of Thermal Analysis and Calorimetry, 2024 (SCI-Expanded)
- XVIII. **Prediction and optimization of emissions in cement manufacturing plant under uncertainty by using artificial intelligence-based surrogate modeling**  
Usman M., Ahmad I., Ahsan M., ÇALIŞKAN H.  
Environment, Development and Sustainability, 2024 (SCI-Expanded)
- XIX. **Grey-box modelling for estimation of optimum cut point temperature of crude distillation column**  
Shahzad J., Ahmad I., Ahsan M., Ahmad F., Saghir H., Kano M., ÇALIŞKAN H., Hong H.  
CAAI Transactions on Intelligence Technology, 2024 (SCI-Expanded)
- XX. **Environmental and second law analysis of a turbojet engine operating with different fuels**  
Kagan Ayaz S., ÇALIŞKAN H., Altuntas O.  
Energy, cilt.285, 2023 (SCI-Expanded)
- XXI. **Artificial intelligence based prediction of optimum operating conditions of a plate and fin heat exchanger**

- under uncertainty: A gray-box approach**  
Khan J. S., Ahmad I., Jadoon U. K., Samad A., Saghir H., Kano M., ÇALIŞKAN H.  
International Journal of Heat and Mass Transfer, cilt.217, 2023 (SCI-Expanded)
- XXII. **A comparative study of combined cycles for concentrated solar power for efficient power generation using low Global Warming Potential (GWP) fluids to reduce environmental effects**  
Khan Y., ÇALIŞKAN H., Hong H.  
IET Renewable Power Generation, cilt.17, sa.16, ss.3741-3754, 2023 (SCI-Expanded)
- XXIII. **Investigating the effects of first idle time and ambient temperature on real driving emissions of passenger cars**  
Akdağ Y. S., Kato A., ÇALIŞKAN H.  
Air Quality, Atmosphere and Health, cilt.16, sa.12, ss.2443-2456, 2023 (SCI-Expanded)
- XXIV. **Exergoeconomic and Thermodynamic Analyses of Solar Power Tower Based Novel Combined Helium Brayton Cycle-Transcritical CO<sub>2</sub> Cycle for Carbon Free Power Generation**  
Khan Y., Singh D., ÇALIŞKAN H., Hong H.  
Global Challenges, cilt.7, sa.12, 2023 (SCI-Expanded)
- XXV. **Investigation and assessment of the optimum conditions of solar heat source hybrid desiccant cooling system under different modes**  
Seung D., Min S., ÇALIŞKAN H., Hong H.  
Solar Energy, cilt.265, 2023 (SCI-Expanded)
- XXVI. **Maisotsenko Cycle for Heat Recovery in Gas Turbines: A Fundamental Thermodynamic Assessment**  
Tariq R., ÇALIŞKAN H., Sheikh N. A.  
Global Challenges, cilt.7, sa.11, 2023 (SCI-Expanded)
- XXVII. **Prediction and optimization of exergetic efficiency of reactive units of a petroleum refinery under uncertainty through artificial neural network-based surrogate modeling**  
Samad A., Ahmad I., Kano M., ÇALIŞKAN H.  
Process Safety and Environmental Protection, cilt.177, ss.1403-1414, 2023 (SCI-Expanded)
- XXVIII. **Utilization of renewable and sustainable aviation biofuels from waste tyres for sustainable aviation transport sector**  
GÜNERHAN A., Altuntas O., ÇALIŞKAN H.  
Energy, cilt.276, 2023 (SCI-Expanded)
- XXIX. **Environmental and thermoecological comparative assessment of improved humid air waste heat recovery configurations**  
Tariq R., ÇALIŞKAN H., Sheikh N. A.  
Journal of Cleaner Production, cilt.407, 2023 (SCI-Expanded)
- XXX. **Thermodynamic analysis and experimental investigation of the water spray cooling of photovoltaic solar panels**  
Khan Y., Raman R., Rashidi M. M., ÇALIŞKAN H., Chauhan M. K., Chauhan A. K.  
Journal of Thermal Analysis and Calorimetry, cilt.148, sa.12, ss.5591-5602, 2023 (SCI-Expanded)
- XXXI. **Novel investigation on atomization, performance, and emission characteristics of preheated jatropha oil methyl ester and ethyl ester**  
Yadav P. S., Said Z., Gautam R., Raman R., ÇALIŞKAN H.  
Energy, cilt.270, 2023 (SCI-Expanded)
- XXXII. **Energy, exergy, thermoecologic, environmental, enviroeconomic and sustainability analyses and assessments of the aircraft engine fueled with biofuel and jet fuel**  
AKDENİZ H. Y., Balli O., ÇALIŞKAN H.  
Journal of Thermal Analysis and Calorimetry, cilt.148, sa.9, ss.3585-3603, 2023 (SCI-Expanded)
- XXXIII. **Thermodynamic analysis of cumene production plant for identification of energy recovery potentials**  
Samad A., Saghir H., Ahmad I., Ahmad F., ÇALIŞKAN H.  
Energy, cilt.270, 2023 (SCI-Expanded)
- XXXIV. **Energy, exergy, economic, environmental, and sustainability assessments of the CFM56-3 series turbofan engine used in the aviation sector**  
Korba P., Balli O., ÇALIŞKAN H., Al-Rabeei S., Kale U.  
Energy, cilt.269, 2023 (SCI-Expanded)
- XXXV. **Advanced, extended and combined extended-advanced exergy analyses of a novel geothermal powered combined cooling, heating and power (CCHP) system**  
ÇALIŞKAN H., Açıkkalp E., Rostamnejad Takleh H., Zare V.

- Renewable Energy, cilt.206, ss.125-134, 2023 (SCI-Expanded)
- XXXVI. **Thermodynamics, environmental damage cost, exergoeconomic, life cycle, and exergoenvironmental analyses of a JP-8 fueled turbodiesel aviation engine at take-off phase**  
Korba P., Balli O., ÇALIŞKAN H., Al-Rabeei S., Kale U.  
Case Studies in Thermal Engineering, cilt.43, 2023 (SCI-Expanded)
- XXXVII. **Aviation, energy, exergy, sustainability, exergoenvironmental and thermoeconomic analyses of a turbojet engine fueled with jet fuel and biofuel used on a pilot trainer aircraft**  
Balli O., ÇALIŞKAN N., ÇALIŞKAN H.  
Energy, cilt.263, 2023 (SCI-Expanded)
- XXXVIII. **Production and Assessment of New Biofuels from Waste Cooking Oils as Sustainable Bioenergy Sources**  
ÇALIŞKAN H., Yildiz I., Mori K.  
Energies, cilt.16, sa.1, 2023 (SCI-Expanded)
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- V. **ENERGY ANALYSIS OF THE 5% BORON BASED AFTER TREATMENT SYSTEM INTEGRATED DIESEL ENGINE UNDER DIFFERENT SPEEDS**  
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ABANT 2nd INTERNATIONAL CONFERENCE ON SCIENTIFIC RESEARCHES, Bolu, Türkiye, 28 - 30 Aralık 2023, ss.860-869
- VI. **EXPERIMENTAL ANALYSIS AND ASSESSMENT OF 5% BORON CONTAINING OPEN CELL GEOPOLYMER FILTER ON DIESEL ENGINE EMISSIONS**  
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ABANT 2nd INTERNATIONAL CONFERENCE ON SCIENTIFIC RESEARCHES, Bolu, Türkiye, 28 - 30 Aralık 2023, ss.870-877
- VII. **Determination of Production Processes of ASTM-Compliant Bio-jet Fuel from Waste Tyre Feedstock**  
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- VIII. **A COMPREHENSIVE REVIEW OF THE IMPACT OF FEEDSTOCK CHOSEN IN THE PYROLYSIS PROCESS ON THE EMISSIONS OF GAS TURBINE ENGINES**  
GÜNERHAN A., ALTUNTAŞ Ö., ÇALIŞKAN H.  
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- IX. **TAMAMEN ELEKTRİKLİ BİR ARABANIN ULUSLARARASI UYUMLU HALE GETİRİLMİŞ HAFİF ARAÇLAR TEST PROSEDÜRÜ (WLTP) İLE ÖLÇÜLMÜŞ ENERJİ TÜKETİMİNİN İNCELENMESİ**  
Kaplan E. M., ÇALIŞKAN H.  
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Kaplan E. M., ÇALIŞKAN H.  
2nd International Congress on Scientific Advances (ICONSAD 2022), İstanbul, Türkiye, 21 - 24 Aralık 2022, ss.585-589
- XI. **Physical and Chemical Exergy Analyses of the Gas Turbine Combustion Chambers Used for The Aviation Sector**  
TUZCU H., ÇALIŞKAN H.

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- XII. **Use of ASTM Certified Alternative Jet Fuels in Aviation Gas Turbine Engines**  
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YILDIZ İ., ÇALIŞKAN H., Mori K.  
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- XIV. **The Comparison of the Change in Soot Emission Concentration of a Diesel Engine According to Fuel Type and Engine Load**  
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- XV. **Investigation of NOx Emissions in Real Driving Conditions of a Spark Ignition Engine Under Different Conditions**  
AKDAĞ Y. S., ÇALIŞKAN H.  
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- XVI. **The effect of operating a diesel engine in different exhaust after treatment systems on fuel consumption**  
YILDIZ İ., ÇALIŞKAN H., Mori K.  
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- XVII. **Investigation of exhaust emissions of a diesel engine operated with specific biodiesel fuel using Diesel Oxidation Catalyst (DOC) as an after treatment system**  
YILDIZ İ., ÇALIŞKAN H., Mori K.  
5th international "Başkent" congress on physical, social and health sciences, İstanbul, Türkiye, 11 - 12 Haziran 2022, ss.599-602
- XVIII. **Evaluation of THC and CO driving emissions in real conditions of an internal combustion engine car in different environmental conditions**  
AKDAĞ Y. S., ÇALIŞKAN H.  
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- XIX. **Assessment of energy analysis results of a diesel engine using DOC after treatment system depending on fuels**  
YILDIZ İ., ÇALIŞKAN H., Mori K.  
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- XX. **The effect of the DOC after treatment system on emission gases released by combustion of diesel fuel in a diesel engine**  
YILDIZ İ., ÇALIŞKAN H., Mori K.  
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- XXI. **Variation of fuel consumption and total particle concentrations of renewable biofuel and fossil diesel fuel depending on engine loads**  
ÇALIŞKAN H., YILDIZ İ., Mori K.  
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- XXII. **MULTI-OBJECTIVE OPTIMIZATION OF A MULTISTAGE VAPOR COMPRESSION REFRIGERATION CYCLE**  
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- XXIII. **THERMO-ENVIRONMENTAL PERFORMANCE ASSESSMENTS OF A MEDIUM-SCALE AERO TURBOJET ENGINE**  
AKDENİZ H. Y., Ballı Ö., ÇALIŞKAN H.  
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- XXIV. **Comparison of diesel no 2 fuel with new biodiesel fuel from waste oils in terms of fuel properties**  
YILDIZ İ., ÇALIŞKAN H., Mori K.  
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- XXV. **Investigation of Combustion of Kerosene Fuel Used in Aviation**  
TUZCU H., ÇALIŞKAN H.

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- XXVI. **Comparison of The Emissions of Diesel and Waste Derived Biofuel Under 100 Nm Engine Load**  
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ÇALIŞKAN H.  
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AYAZ S. K., ALTUNTAŞ Ö., ÇALIŞKAN H.  
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Çağlayan H., ÇALIŞKAN H.  
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- XXXV. **Thermodynamic analysis and nanoparticle assessment of Japanese diesel no 2 fueled truck engine**  
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- XXXVI. **Thermo-Ecologic Evaluation of a Spray Dryer for Ceramic Industry**  
Caglayan H., ŞÖHRET Y., ÇALIŞKAN H.  
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- XXXVII. **Performance assessment of the proton exchange membrane fuel cell - Chemical heat pump hybrid system**  
Açikkalp E., ÇALIŞKAN H.  
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