Assoc. Prof. HALİL YALÇIN AKDENİZ

Personal Information

Web: https://avesis.ogu.edu.tr/hyakdeniz

International Researcher IDs
ORCID: 0000-0003-2101-6151
Publons / Web Of Science ResearcherID: AAU-4602-2020
ScopusID: 57220127806
Yoksis Researcher ID: 14248

Education Information

Doctorate, Anadolu University, Institute Of Scıence, Uçak Gövde-Motor Bakım (Dr), Turkey 2016 - 2020

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Havalimanlarında sürdürülebilir gürültü yönetimi, Anadolu University, Fen Bilimleri Enstitüsü, Uçak Gövde-Motor Bakım (Dr), 2020

Research Areas

Aeronautical and Space Engineering

Academic Titles / Tasks

Associate Professor, Eskisehir Osmangazi University, Eskişehir Meslek Yüksekokulu, Esogü Myo, 2022 - Continues
Lecturer PhD, Eskisehir Osmangazi University, Eskişehir Meslek Yüksekokulu, Esogü Myo, 2013 - 2022

Courses

ENDÜSTRİYEL UYGULAMALAR-II, Associate Degree, 2017 - 2018
ENDÜSTRİYEL UYGULAMALAR 1, Associate Degree, 2017 - 2018, 2016 - 2017
MÜHENDİSLİK BİLİMİ, Associate Degree, 2017 - 2018, 2016 - 2017
PROJE, Associate Degree, 2017 - 2018, 2016 - 2017
BİLGİSAYAR DESTEKLİ TASARIM VE İMALAT-B, Associate Degree, 2017 - 2018
BİLGİSAYAR DESTEKLİ TASARIM VE İMALAT-A, Associate Degree, 2017 - 2018
BİLGİSAYAR DESTEKLİ TASARIM VE İMALAT, Associate Degree, 2017 - 2018, 2016 - 2017
ENDÜSTRİYEL UYGULAMALAR-I, Associate Degree, 2017 - 2018

MAKİNE ELEMANLARI, Associate Degree, 2017 - 2018, 2016 - 2017
MEKANİZMA TEKNİĞİ, Associate Degree, 2017 - 2018, 2016 - 2017
FİZİK, Associate Degree, 2017 - 2018, 2016 - 2017
HAVACILIK TEKNOLOJİSİ, Associate Degree, 2017 - 2018, 2016 - 2017
HİDROLİK VE PNÖMATİK SİSTEMLER, Associate Degree, 2017 - 2018, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

I. **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., Caliskan H.
Journal of Thermal Analysis and Calorimetry, vol.148, no.9, pp.3585-3603, 2023 (SCI-Expanded)

II. **Energy, exergy, economic, environmental, energy based economic, exergoeconomic and enviroeconomic (7E) analyses of a jet fueled turbofan type of aircraft engine**
AKDENİZ H. Y., Balli O., Caliskan H.
Fuel, vol.322, 2022 (SCI-Expanded)

III. **Systematic benchmarking of performance, environmental and sustainability impacts of utilization of alternative cleaner fuel in an aircraft gas turbine engine**
AKDENİZ H. Y.
Environmental Science and Pollution Research, vol.29, no.34, pp.51012-51029, 2022 (SCI-Expanded)

IV. **Landing and take-off (LTO) flight phase performances of various piston-prop aviation engines in terms of energy, exergy, irreversibility, aviation, sustainability and environmental viewpoints**
AKDENİZ H. Y.
Energy, vol.243, 2022 (SCI-Expanded)

V. **Estimation of aircraft turbofan engine exhaust emissions with environmental and economic aspects at a small-scale airport**
AKDENİZ H. Y.
Aircraft Engineering and Aerospace Technology, vol.94, no.2, pp.176-186, 2022 (SCI-Expanded)

VI. **Impact of different fuel usages on thermodynamic performances of a high bypass turbofan engine used in commercial aircraft**
AKDENİZ H. Y., Balli O.
Energy, vol.238, 2022 (SCI-Expanded)

VII. **Effects of Bypass Ratio Change Trend on Performance in a Military Aircraft Turbofan Engine With Comparative Assessment**
AKDENİZ H. Y., Balli O.
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.143, no.12, 2021 (SCI-Expanded)

VIII. **Energetic and exergetic assessment of operating biofuel, hydrogen and conventional JP-8 in a J69 type of aircraft turbojet engine**
AKDENİZ H. Y., Balli O.
Journal of Thermal Analysis and Calorimetry, vol.146, pp.1709-1721, 2021 (SCI-Expanded)

IX. **Prediction and simulation of aircraft noise in the international Eskisehir Hasan Polatkan airport (LTBY)**
Akdeniz H. Y., Sogut M. Z., Turan O.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.93, no.1, pp.171-179, 2021 (SCI-Expanded)

Articles Published in Other Journals

I. **HELİKOPTERLERDE KULLANILAN BİR PİSTON-PROP MOTORUN ENERJİ, EKSERJİ, TERMOEKOLOJİK,**

SÜRDÜRÜLEBİLİRLİK, TERMOEKONOMİK VE EKSERGOEKONOMİK PERFORMANS ANALİZLERİ
AKDENİZ H. Y.
Mühendis ve Makina, vol.62, no.705, pp.830-844, 2021 (Peer-Reviewed Journal)

II. **Determining of Aircraft Engine Greenhouse Gas (CO2, CH4 and N2O) Emissions from the Landing and Take-Off Operations Around the Airport Area**
AKDENİZ H. Y.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, 2021 (Peer-Reviewed Journal)

III. **Assessment of aircraft noise emissions at international eskisehir hasan polatkan airport with multiple approach model**
Akdeniz H. Y., Sogut M. Z., Turan O.
Journal of Aerospace Technology and Management, vol.13, 2021 (ESCI)

IV. **A Study on Aerodynamic Behavior of Subsonic UAVs' Wing Sections with Flaps**
AKDENİZ H. Y.
International Journal of Aviation Science and Technology","Volume 02 Issue 01, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **THERMODYNAMIC EVALUATION OF ICE BASED AIRCRAFT RECIPROCATING ENGINES USED IN GENERAL AVIATION INDUSTRY**
AKDENİZ H. Y.
SIXTH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING: ICAME 2021, Turkey, 20 - 22 October 2021, pp.1111-1117

II. **ASSESSMENT OF ENVIRONMENTAL PERFORMANCE INDICATORS BASED ON FUEL PERFORMANCE IN AN AIRCRAFT ENGINE**
AKDENİZ H. Y.
International Symposium on Aircraft Technology, MRO & Operations 2021 June 28-30, 2021 Budapest, Hungary, 28 June - 30 August 2021

III. **Thermo-environmental performance assessments of a medium-scale aero turbojet engine (ID:106)**
AKDENİZ H. Y., Ballı Ö., ÇALIŞKAN H.
TUBA WCEST-2021, 08 August 2021

IV. **THERMO-ENVIRONMENTAL PERFORMANCE ASSESSMENTS OF A MEDIUM-SCALE AERO TURBOJET ENGINE**
AKDENİZ H. Y., Ballı Ö., ÇALIŞKAN H.
TUBA World Conference on Energy Science and Technology (TUBA WCEST-2021), Turkey, 8 - 12 August 2021, pp.259-260

V. **PERFORMANCE ANALYSIS OF A WING USED IN UNMANNED SYSTEMS**
AKDENİZ H. Y.
International Symposium on Electric Aviation and Autonomous Systems 2020 22 - 24 September 2020 Kyiv, Ukraine, 22 - 24 September 2020

VI. **Exergy Analysis of PT6 Engines In Specific Temperature of Cruise Process**
AKDENİZ H. Y., ALTUNTAŞ Ö., SÖĞÜT M. Z.
AVIATION IN THE XXI-st CENTURY - Safety in aviation and space technology, KIEV, Ukraine, 10 - 12 October 2018, vol.1, pp.45-50

VII. **Advantages and Disadvantages of Hybrid Electric Propulsion Systems**
AKDENİZ H. Y., ALTUNTAŞ Ö., SÖĞÜT M. Z., KARAKOÇ T. H.
International Symposium on Electric Aviation and Autonomous Systems 2018, 10 - 12 October 2018

VIII. **ESKİŞEHİR'DE BİR BİYOGAZ ÜRETİM TESİSİNİN KURULUMUNUN İNCELENMESİ**
AKBULUT A., AKDENİZ H. Y., AKBULUT A., ARSLAN O.
4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, 18 April - 20 August 2018

Metrics

Publication: 22
Citation (WoS): 6
Citation (Scopus): 4
H-Index (WoS): 2
H-Index (Scopus): 1

Non Academic Experience

Public Corporation, TÜRK HAVA KUVVETLERİ, 1'inci HAVA İKMAL BAKIM MERKEZİ KOMUTANLIĞI
1’inci HAVA İKMAL BAKIM MERKEZİ KOMUTANLIĞI