

## Assoc. Prof. HALİL YALÇIN AKDENİZ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAU-4602-2020

ScopusID: 57220127806

Yoksis Researcher ID: 14248

### Education Information

Doctorate, Anadolu University, Institute Of Science, 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, ESKİŞEHİR MESLEK YÜKSEKOKULU, Esogü Myo, 2022 - Continues

Lecturer PhD, Eskisehir Osmangazi University, ESKİŞEHİR 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 (CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O) 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): 5

Citation (Scopus): 4

H-Index (WoS): 1

H-Index (Scopus): 1

## **Non Academic Experience**

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