



# MURAT TAŞTAN

## ASSOC. PROF.

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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-2792-2016

ScopusID: 65044444915

Yoksis Researcher ID: 24317



### Learning Knowledge

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Doctorate  
2011 - 2018

Erciyes University, Fen Bilimleri Enstitüsü, Makina A.B.D., Turkey

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Postgraduate  
2008 - 2011

Erciyes University, Fen Bilimleri Enstitüsü, Sivil Havacılık, Turkey

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Undergraduate  
2003 - 2008

Erciyes University, Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor, Turkey

### Foreign Languages

English, B1 Intermediate

### Dissertations

Doctorate, İÇTEN YANMALI BİR MOTORDA HİDROJENLE ZENGİNLEŞTİRİLMİŞ METANOL-BENZİN KARIŞIMLARININ PERFORMANS VE EMİSYONA ETKİSİNİN DENEYSEL İNCELENMESİ, Erciyes Üniversitesi, Makine Mühendisliği, Makine Mühendisliği, 2018

Postgraduate, EKSENEL KOMPRESÖRÜN ÜÇ BOYUTLU SAYISAL İNCELENMESİ, Erciyes Üniversitesi, Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor, 2011

### Academic Titles / Tasks

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Assistant Professor  
2018 - Continues

Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde ve Motor  
Bakımı

Lecturer  
2017 - 2018

Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde ve Motor  
Bakımı

Research Assistant  
2011 - 2017

Erciyes University, Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor

## Supported Projects

1. TAŞTAN M., DEĞER E., MUTLU K., Project Supported by Higher Education Institutions, N2 Seyreltmesinin Propan Alevinde Yanma Kararsızlıkları ve Emisyonları Üzerindeki Etkisi, 2023 - Continues
2. Taştan M., Tangöz S., Mutlu K., Project Supported by Higher Education Institutions, Manyetik Alan Altında Gaz Yakıtların Yanma Kararsızlığının İncelenmesi, 2024 - 2025
3. Taştan M., Yılmaz H., Çetintaş S., Project Supported by Higher Education Institutions, Plazma Destekli Yanmanın Deneysel İncelenmesi, 2023 - 2024
4. ALABAŞ B., TAŞTAN M., MUTLU K., Project Supported by Higher Education Institutions, Bir Gaz Türbin Yanma Odasında Alternatif Yakıt ilavesinin Jet Yakıtının Yanma Karakteristiği ve Kirletici Emisyon Değerlerine Olan Etkisinin Deneysel İncelenmesi, 2022 - 2024
5. TAŞTAN M., MUTLU K., Project Supported by Higher Education Institutions, Oksijenle Zenginleştirilmiş LPG Yakıtının Yanma Kararsızlığının İncelenmesi, 2020 - 2021
6. YILMAZ İ., TARHAN C., TAŞTAN M., ÇAM Ö., Project Supported by Higher Education Institutions, RÜZGÂR TÜRBİN KANAT PROFİLLERİNİN SAYISAL VE DENEYSEL İNCELENMESİ, 2016 - 2018
7. YILMAZ İ., TAŞTAN M., Project Supported by Higher Education Institutions, İÇTEN YANMALI BİR MOTORDA HİDROJENLE ZENGİNLEŞTİRİLMİŞ METANOL-BENZİN KARIŞIMLARININ PERFORMANS VE EMİSYONA ETKİSİNİN DENEYSEL İNCELENMESİ, 2014 - 2018
8. KARCI A., TARHAN C., TAŞTAN M., ÇAM Ö., YILMAZ I., Project Supported by Higher Education Institutions, Farklı Kanat Profillerinin Aerodinamik Özelliklerinin Deneysel İncelenmesi, 2013 - 2014
9. YILMAZ İ., TAŞTAN M., TARHAN C., TANGÖZ S., Project Supported by Higher Education Institutions, GAZ TÜRBİN MOTOR YANMA ODASININ PERFORMANS DEĞERLERİNİN BELİRLENMESİ ÇİN TEST SİSTEMİNİN OLUSTURULMASI, 2009 - 2012

## Awards

1. Taştan M., TÜBİTAK Yayın Teşvik Ödülü, Tübitak, January 2023
2. Taştan M., TÜBİTAK Yayın teşvik, Tübitak, January 2022
3. Taştan M., TÜBİTAK Yayın teşvik, Tübitak, January 2021
4. Taştan M., Yılmaz İ., En iyi Bildiri Ödülü, Osmaniye Korkut Ata Üniversitesi, January 2017

## Scholarships

TÜBİTAK YURT İÇİ DOKTORA BURSUSU, TUBITAK, 2012 - 2018

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2024

Doctorate, Doctorate, Erciyes Üniversitesi, October, 2024

Post Graduate, Post Graduate, Erciyes Üniversitesi, September, 2024

Post Graduate, Post Graduate, Erciyes Üniversitesi, August, 2024

Doctorate, Doctorate, Erciyes Üniversitesi, July, 2024

Post Graduate, Post Graduate, Erciyes Üniversitesi, February, 2024

Post Graduate, Post Graduate, Erciyes Üniversitesi, August, 2023

Post Graduate, Post Graduate, Erciyes Üniversitesi, July, 2023

Post Graduate, Post Graduate, Erciyes Üniversitesi, June, 2023

Post Graduate, Post Graduate, Erciyes Üniversitesi, June, 2023

Post Graduate, Post Graduate, Erciyes Üniversitesi, January, 2023

Post Graduate, Post Graduate, Erciyes Üniversitesi, January, 2023

Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, November, 2021

Competition, TEKNOFEST 2020, Erciyes Üniversitesi, June, 2020

Post Graduate, Post Graduate, Erciyes Üniversitesi, June, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, February, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, January, 2020

Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, January, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, January, 2020

Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, January, 2020

## Published journal articles indexed by SCI, SSCI, and AHCI

- 1. Experimental investigation of the effect of air/fuel ratio change on JP8 swirl flame characteristics with image processing methods**  
Alabaş B., Taştan M., Arenillas I. A., Özcan A.  
CASE STUDIES IN THERMAL ENGINEERING, vol.59, no.59, pp.1-14, 2024 (SCI-Expanded)
- 2. Investigation of combustion instability of propane fuel enriched with oxygen under acoustic enforcement**  
Mutlu K., Taştan M.  
PETROLEUM SCIENCE AND TECHNOLOGY, vol.42, no.1, pp.37-55, 2024 (SCI-Expanded)
- 3. Experimental investigation of the effect of the electromagnetic field on the stability of the hydrogen enriched methane flame under acoustic enforcement**  
Taştan M., Ozturk O., Alabaş B., Mutlu K., Yılmaz İ.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.46, no.1, pp.5290-5305, 2024 (SCI-Expanded)
- 4. Effect of oxygen enrichment of Biogas-Hydrogen mixtures in a premixed combustor on the combustion instability and emissions**  
ALABAŞ B., TUNÇ G., TAŞTAN M., YILMAZ İ.  
Fuel, vol.340, 2023 (SCI-Expanded)
- 5. Examination of combustion characteristics of oxygen enriched synthetic gases mixtures at various acoustic frequencies**

- Alabaş B., Tunç G., Taştan M., Yılmaz İ.  
International Journal of Hydrogen Energy, vol.47, no.24, pp.12365-12376, 2022 (SCI-Expanded)
6. **Experimental investigation of the flame characteristics of a fuel mixture with high hydrogen content enriched with oxygen under the externally acoustic enforcement conditions**  
Yılmaz İ., Tunç G., Taştan M., Alabaş B.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.24, pp.12432-12442, 2022 (SCI-Expanded)
  7. **Experimental investigation of the emission behaviour and flame stability of the oxygen and hydrogen enriched methane under acoustic enforcement**  
ALABAŞ B., TUNÇ G., TAŞTAN M., YILMAZ İ.  
FUEL, vol.290, 2021 (SCI-Expanded)
  8. **Effect of oxygen enrichment on the flame stability and emissions during biogas combustion: An experimental study**  
Yılmaz İ., Alabaş B., Taştan M., Tunç G.  
FUEL, vol.280, 2020 (SCI-Expanded)
  9. **Experimental investigation of the oxygen enrichment in synthetic gases flames**  
Alabaş B., Tunç G., Taştan M., Yılmaz İ.  
FUEL, vol.270, 2020 (SCI-Expanded)
  10. **Investigation of hydrogen addition to methanol-gasoline blends in an SI engine**  
Yılmaz İ., Taştan M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.44, pp.20252-20261, 2018 (SCI-Expanded)
  11. **Effect of turbulence and radiation models on combustion characteristics in propane-hydrogen diffusion flames**  
Yılmaz I., Taştan M., Ilbas M., Tarhan C.  
ENERGY CONVERSION AND MANAGEMENT, vol.72, pp.179-186, 2013 (SCI-Expanded)
  12. **Investigation of hydrogen usage in aviation industry**  
Yılmaz I., Ilbas M., Taştan M., Tarhan C.  
ENERGY CONVERSION AND MANAGEMENT, vol.63, pp.63-69, 2012 (SCI-Expanded)

## Articles Published in Other Journals

1. **A review of magnetic field assisted combustion**  
TAŞTAN M., ÖZTÜRK O.  
International journal of energy studies (Online), vol.9, no.1, pp.175-198, 2024 (Peer-Reviewed Journal)
2. **Investigation of propane combustion at different equivalent ratios in a premixed model burner**  
TAŞTAN M., MIZRAK K. C.  
International journal of energy studies (Online), vol.8, no.4, pp.731-746, 2023 (Peer-Reviewed Journal)
3. **Examination of combustion behaviors and emissions of hydrogen enriched propane/methane fuel under external acoustic application**  
Taştan M., Mutlu K., Çetintaş S.  
International journal of energy studies (Online), vol.8, no.3, pp.371-384, 2023 (Peer-Reviewed Journal)
4. **Experimental Investigation of Acoustic Forcing on the Combustion Effect of Propane - Methane Mixtures**  
Er K. E., Taştan M.  
Avrupa Bilim ve Teknoloji Dergisi, no.51, pp.282-293, 2023 (Peer-Reviewed Journal)
5. **Investigation Of Combustion Characteristics Of Propane Gas At Swirl Number Variations In A Premixed Model Combustor**  
Sıpçık C., Taştan M.  
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.35, no.2, pp.483-493, 2023 (Peer-Reviewed Journal)
6. **Experimental Investigation of Different Shale Gases in a Premixed Combustion Chamber**  
ÇETİNTAŞ S., TAŞTAN M.

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.15, pp.106-124, 2022 (Peer-Reviewed Journal)

7. **Experimental Investigation of Aerodynamic Performance of Different Wind Turbine Airfoils**  
Yılmaz İ., Cam O., Taştan M., Karıcı A.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.19, no.4, pp.577-584, 2016 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

1. **THE EFFECT OF DILUTION ON THE FLAME BEHAVIOR OF GAS FUELS IN COMBUSTION CHAMBER TYPE BURNERS: A REVIEW OF RECENT STUDIES**  
ÇAM Y., TAŞTAN M.  
17th. International Combustion Symposium (INCOS 2024), Bursa, Turkey, 19 - 21 September 2024, vol.1, pp.286
2. **2021 EMISSIONS FROM AIRCRAFT DURING THE LTO CYCLE AT MUĞLA DALAMAN AIRPORT AND COST CALCULATION**  
ÖZTÜRK O., TAŞTAN M.  
17th. International Combustion Symposium (INCOS 2024), Bursa, Turkey, 19 - 21 September 2024, vol.1, pp.173-181
3. **INVESTIGATION OF THE EFFECT OF SWIRL NUMBER ON FLAME STRUCTURE IN A PREMIXED COMBUSTOR USING IMAGE PROCESSING METHOD**  
TAŞTAN M., ALABAŞ B., KAHRAMAN N., YILMAZ İ.  
17th. International Combustion Symposium (INCOS 2024), Bursa, Turkey, 19 - 21 September 2024, vol.1, pp.269-272
4. **Flame and Emission Characteristics of Hydrogen added Propane**  
Yılmaz D., Alabaş B., Yılmaz İ., Taştan M.  
8th Aerospace, Space, and Defense Technologies Symposium, Kayseri, Turkey, 14 - 15 November 2024
5. **Sıvı Yakıtlarda Manyetik Alanın Etkisi**  
Çam Y., Mutlu K., Taştan M.  
8th Aerospace, Space, and Defense Technologies Symposium, Kayseri, Turkey, 14 November 2024
6. **Havacılıkta Hidrojen Yakıtlı Hava Araçları**  
SAĞOL U., TAŞTAN M.  
8th Aerospace, Space, and Defense Technologies Symposium, Kayseri, Turkey, 14 November 2024
7. **EFFECT OF N2 DILUTION ON DYNAMIC FLUCTUATION OF PROPANE- HYDROGEN FLAME**  
YILMAZ D., ALABAŞ B., YILMAZ İ., TAŞTAN M.  
4 International Conference on Energy, Environment and Storage of Energy (ICEESEN 2024), Nevşehir, Turkey, 05 September 2024, pp.478-480
8. **HAVA ÖN ISITMALI MODEL BİR YAKICIDA METAN YANMASININ SAYISAL İNCELENMESİ**  
TAŞTAN M.  
1. BİLSEL INTERNATIONAL KIBYRA SCIENTIFIC RESEARCHES CONGRESS, Burdur, Turkey, 16 - 17 March 2024, pp.181-189
9. **HAVA ÖN ISITMALI MODEL BİR YAKICIDA PROPANE YANMASININ SAYISAL İNCELENMESİ**  
TAŞTAN M.  
2. ULUSLARARASI EL-CEZERİ MÜHENDİSLİK VE UYGULAMALI BİLİMLER KONGRESİ, Van, Turkey, 15 - 17 March 2024, pp.32-33
10. **Farklı Kaya Gazları Kanşmlarında Bileşenlerin ve Girdap Üreteçlerinin Alev Yapısına Etkisi**  
ÇETİNTAŞ S., TAŞTAN M.  
Aviation Technologies and Applications Conference - 2023 ATAConf'23, İzmir, Turkey, 20 October 2023, vol.1, pp.106-108
11. **FARKLI SWİRL DEĞERLERİNDE MODEL BİR YAKICIDA PROPAN YANMASININ SAYISAL ANALİZİ**  
TAŞTAN M.  
9th INTERNATIONAL ERCIYES CONFERENCE ON SCIENTIFIC RESEARCH, Ankara, Turkey, 17 - 18 July 2023
12. **Experimental investigation of hydrogen enriched propane in terms of emission values and flue gas**

**temperature**

BOZTOPRAK O., TAŞTAN M.

5th International Hydrogen Technologies Congress, Niğde, Turkey, 26 - 29 May 2021, no.1, pp.164-166

13. **Effect of Acoustic Enforcement on The Instability of Propane Flame**

MUTLU K., TAŞTAN M.

8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, pp.191-196

14. **Effect of Oxygen Enrichment on Flame Instability for A High Hydrogen Content Fuel Mixture**

TUNÇ G., TAŞTAN M., YILMAZ İ., ALABAŞ B.

8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, vol.1, pp.212-216

15. **The Effect of Oxygen Enrichment on Combustion Instabilities for Synthetic Gases Fuels with Different H<sub>2</sub>/CO Ratios**

Alabaş B., Tunç G., Taştan M., Yılmaz İ.

15th International Combustion Symposium (INCOS 2020), Kayseri, Turkey, 17 - 19 September 2020, pp.313-319

16. **Experimental Investigation of the Effect of Swirl Number on the Burning of Synthetic Gases in a Burner**

ALABAŞ B., TUNÇ G., TAŞTAN M., YILMAZ İ.

VII. Mühendislikte Yakıtlar, Yanma ve Yangın Konferansı (7th International Conference on Renewable Fuels Combustion and Fire – FCE2019), 10 - 12 March 2019

17. **Numerical and Experimental Investigations Of E387 And SD7032 Wind Turbine Airfoils For 3 Different Reynolds Number Conditions**

Tarhan C., Taştan M., Yılmaz I.

International Eurasian Conference On Science, Engineering And Technology, Ankara, Turkey, 22 - 23 November 2018

18. **Laboratuvar Ölçekli Bir Yakıcıda Metan Hidrojen Karışımlarının Deneysel İncelenmesi**

ALABAŞ B., TUNÇ G., TAŞTAN M., YILMAZ I.

INTERNATIONAL EURASIAN CONFERENCE ON SCIENCE, ENGINEERING AND TECHNOLOGY, Ankara, Turkey, 22 - 23 November 2018, pp.2541-2549

19. **Hidrojen- Metanol- Benzin Karışımlarının Deneysel İncelenmesi**

TAŞTAN M., YILMAZ I.

14th International Conference of Combustion, Karabük, Turkey, 25 - 27 April 2018, vol.1, pp.1-9

20. **İÇTEN YANMALI BİR MOTORDA HİDROJENLE ZENGİNLEŞTİRİLMİŞ METANOL- BENZİN KARIŞIMLARININ PERFORMANS VE EMİSYONA ETKİSİ**

TAŞTAN M., YILMAZ I.

International Advanced Researches and Engineering Congress, Osmaniye, Turkey, 16 - 18 November 2017, pp.1-6

21. **Farklı Kompozisyonlardaki Sentetik Gazların Yanma Performanslarının İncelenmesi**

YILMAZ H., YILMAZ İ., ÇAM Ö., TAŞTAN M.

VI. Ulusal Havacılık ve Uzay Konferansı, KOCAELİ, TÜRKİYE, 28-30 Eylül 2016, s, Kocaeli, Turkey, 28 - 30 September 2016, pp.1240-1251

22. **BOUNDARY LAYER FLOW SEPARATION CONTROL OF TWO DIMENSIONAL NACA 2415 AIRFOIL**

YILMAZ İ., ÇAM Ö., TAŞTAN M.

8. ANKARA INTERNATIONAL AEROSPACE CONFERENCE, 10 - 12 September 2015

23. **Effect of turbulence and radiation models on combustion characteristics in propane-hydrogen diffusion flames**

Yılmaz İ., Taştan M., İlbaş M., Tarhan C.

The Third International Conference on Nuclear and Renewable Energy Resources, İstanbul, Turkey, 20 - 23 May 2012, pp.1-7

24. **3-D NUMERICAL INVESTIGATION OF AXIAL COMPRESSOR**

YILMAZ İ., TAŞTAN M.

III. International Conference on Nuclear and Renewable Energy Resources, Turkey, 1 - 04 May 2012, pp.166

25. **Biyokütlenin Havacılıkta Kullanımı**  
YILMAZ İ., TAŞTAN M., TARHAN C.  
VI. Yeni ve Yenilenebilir Enerji Kaynakları Sempozyumu, Kayseri, Turkey, 1 - 04 October 2011, pp.197-203
26. **Investigation of hydrogen usage in aviation industry**  
Yılmaz İ., İlbaş M., Taştan M., Tarhan C.  
10th International Conference in Sustainable Energy Technologies, İstanbul, Turkey, 4 - 07 September 2011, pp.1-7

## Academic and Administrative Experience

2023 - Continues	<b>Vice Dean</b>	Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi
2022 - Continues	<b>Chairperson of Unit Promotion and Alumni Relations Commission</b>	Erciyes University, Havacılık Ve Uzay Bilimleri Fakültesi, Uçak Gövde Ve Motor Bakımı
2022 - Continues	<b>Chairperson of Unit Strategic Planning Commission</b>	Erciyes University, Havacılık Ve Uzay Bilimleri Fakültesi, Uçak Gövde Ve Motor Bakımı
2022 - Continues	<b>Chairperson of Unit Quality Commission</b>	Erciyes University, Havacılık Ve Uzay Bilimleri Fakültesi, Uçak Gövde Ve Motor Bakımı
2022 - 2023	<b>Vice Dean</b>	Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi
2020 - 2022	<b>Deputy Head of Department</b>	Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde ve Motor Bakımı

## Courses

HAVA ARACI SİSTEMLERİ 2, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
 Scientific Research and Ethics, Doctorate, 2023 - 2024, 2022 - 2023  
 Aircraft Systems, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
 KARIYER PLANLAMA, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
 HAVA ARACI SİSTEMLERİ 2, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
 Scientific Research and Ethics , Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
 HAVA ARACI SİSTEMLERİ, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
 GAZ TÜRBİNLİ MOTORLAR, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
 AIRCRAFT STRUCTURES-1, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
 UÇUŞ TEORİSİ, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
 HAVA ARACI YAPILARI 1, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
 Gas Turbine Engines, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
 Flight Theory, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
 KARIYER PLANLAMA, Undergraduate, 2022 - 2023, 2021 - 2022  
 Tepki ve Tahrik, Undergraduate, 2023 - 2024  
 HAVA ARACI HİDROLİK VE PNÖMATİK SİSTEMLERİ, Undergraduate, 2021 - 2022  
 Hava Aracı Hidrolik ve Pnömatik Sistemleri, Undergraduate, 2021 - 2022

SEMİNER, Postgraduate, 2020 - 2021  
Aircraft System Modeling, Doctorate, 2021 - 2022  
AIRCRAFT SYSTEMS I, Undergraduate, 2020 - 2021  
INTRODUCTION TO FINITE ELEMENTS METHOD, Undergraduate, 2020 - 2021  
SONLU ELEMENLAR METODUNA GİRİŞ, Undergraduate, 2020 - 2021  
Pistonlu Motorlar -1, Undergraduate, 2017 - 2018  
Uçak Güç Sistem Uygulamaları, Undergraduate, 2017 - 2018  
Uçuş Teorisi, Undergraduate, 2016 - 2017  
Havacılıkta Emniyet Yönetimi, Undergraduate, 2016 - 2017  
Uçak Yapıları ve Uygulamaları, Undergraduate, 2016 - 2017  
Hava Aracı Malzeme Bilgisi, Undergraduate, 2016 - 2017

## Advising Theses

Taştan M., Model Bir Gaz Türbin Yanma Odasında Dizel Metan Karışımlarının Yanma Karakteristiği ve Emisyon Değerlerinin Deneysel İncelenmesi, Doctorate, İ.SİVRİ(Student), Continues  
Taştan M., Propan - Hidrojen Karışımlarının Farklı Seyrelticiler Etkisi Altında Alev Karakteristiği ve Emisyon Değerlerinin Deneysel İncelenmesi, Doctorate, D.YILMAZ(Student), Continues  
Taştan M., Manyetik Alan Altında Gaz Yakıtların Yanma Kararsızlığının İncelenmesi, Doctorate, K.MUTLU(Student), Continues  
Taştan M., PLAZMA DESTEKLİ YANMANIN DENEYSEL İNCELENMESİ, Doctorate, S.ÇETİNTAŞ(Student), Continues  
Taştan M., Yüksek ve Düşük Eşdeğerlik Oranlarında Çalışabilecek Yakıcı Tasarımı, Doctorate, S.SAMET(Student), Continues  
Taştan M., N2 Seyreltmesinin Propan Alevinde Yanma Kararsızlıkları ve Emisyonları Üzerindeki Etkisi, Postgraduate, E.DEĞER(Student), Continues  
Taştan M., Biyogaz yanmasının farklı seyrelticiler altında yanma kararsızlığının deneysel incelenmesi, Doctorate, Y.ÇAM(Student), 2024  
Taştan M., Sentetik Yakıtların Yanma Kararsızlığına Elektromanyetik Alan Etkilerinin Deneysel İncelenmesi, Doctorate, O.ÖZTÜRK(Student), 2024  
Taştan M., HİDROJENLE ZENGİNLEŞTİRİLMİŞ PROPAN YAKITININ YANMA KARARSIZLIĞININ İNCELENMESİ, Postgraduate, O.BOZTOPRAK(Student), 2023  
Taştan M., Ön Karışimli Model Bir Yakıcıda Farklı Eşdeğerlik Oranlarında Propan Yanmasının Araştırılması, Postgraduate, K.CENK(Student), 2023  
Taştan M., Ön Karışimli Bir Yanma Odasında Girdap Üreteçlerinin Propan Yanma Davranışları ve Emisyon Değerlerine Etkisi, Postgraduate, C.SIPÇIK(Student), 2023  
Taştan M., Ön Karışimli Bir Yanma Odasında Propan-Metan Karışımlarının Yanma Davranışlarının Deneysel Araştırılması, Postgraduate, K.EMRE(Student), 2023  
Taştan M., Kaya gazlarının yanma ve emisyon davranışlarının deneysel incelenmesi, Postgraduate, S.ÇETİNTAŞ(Student), 2021  
Taştan M., Oksijenle zenginleştirilmiş LPG yakıtının yanma kararsızlığının incelenmesi, Postgraduate, K.MUTLU(Student), 2021

## Student Project

R & D Project, Art Yakıcı Alev Tutucularının Oluk Sayısının Yanma Verimliliği Üzerine Etkisi, Erciyes University, Havacılık Ve Uzay Bilimleri Fakültesi, Uçak Gövde Ve Motor Bakımı, Turkey, 2023 - Continues  
R & D Project, Teleskopik Kanat Tasarımının Değişik Hücum Açılı ve Hızdaki Stall Karakteristiğinin Araştırılması, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde Ve Motor Bakımı, Turkey, 2022 - Continues



## Activities in Scientific Journals

Journal of Aerospace Science and Management, Editor, 2024 - Continues

## Memberships / Tasks in Scientific Organizations

The Combustion Institute, Member, 2022 - Continues, United States Of America

## Scientific Refereeing

Energy Environment and Storage, Other Indexed Journal, December 2024

Çukurova Üniversitesi Mühendislik Fakültesi dergisi, National Scientific Refreed Journal, September 2024

Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, August 2024

International Journal of Automotive Science and Technology, National Scientific Refreed Journal, May 2024

COMBUSTION SCIENCE AND TECHNOLOGY, SCI Journal, April 2024

COMBUSTION SCIENCE AND TECHNOLOGY, SCI Journal, April 2024

GAZI UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, February 2023

International journal of energy studies (Online), National Scientific Refreed Journal, January 2023

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, June 2022

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, December 2021

International Journal of Automotive Engineering and Technologies, National Scientific Refreed Journal, October 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, September 2020

## Tasks In Event Organizations

Taştan M., Kahraman N., Yıldırım Ç. V., 8th Aerospace, Space, and Defense Technologies Symposium, Scientific Congress, Kayseri, Turkey, Kasım 2024

Taştan M., 15th International Combustion Symposium, Scientific Congress, Kayseri, Turkey, Haziran 2020

## Scientific Research / Working Group Memberships

Yanma Araştırma Grubu, Erciyes University, Turkey, comlaberu@gmail.com, 2019 - Continues

## Metrics

Publication: 45

Citation (WoS): 194

Citation (Scopus): 219

H-Index (WoS): 7

H-Index (Scopus): 7

## Congress and Symposium Activities

8th Aerospace, Space, and Defense Technologies Symposium, Session Moderator, Kayseri, Turkey, 2024

17th. International Combustion Symposium (INCOS 2024), Attendee, Bursa, Turkey, 2024

4 International Conference on Energy, Environment and Storage of Energy , Attendee, Nevşehir, Turkey, 2024

1. BİLSEL INTERNATIONAL KIBYRA SCIENTIFIC RESEARCHES CONGRESS, Attendee, Burdur, Turkey, 2024
2. ULUSLARARASI EL-CEZERİ MÜHENDİSLİK VE UYGULAMALI BİLİMLER KONGRESİ, Session Moderator, Van, Turkey, 2024
- The Fifth International Hydrogen Technologies Congress (IHTEC-2021), Attendee, Niğde, Turkey, 2021
- 8th International Conference on Renewable Fuels, Combustion and Fire, Attendee, Ankara, Turkey, 2021
- 15th International Combustion Symposium (INCOS 2020), Attendee, Kayseri, Turkey, 2020
- 7th International Conference on Renewable Fuels Combustion and Fire – FCE2019, Attendee, Kayseri, Turkey, 2019
- INTERNATIONAL EURASIAN CONFERENCE ON SCIENCE, ENGINEERING AND TECHNOLOGY,, Attendee, Ankara, Turkey, 2018
- International Eurasian Conference On Science, Engineering And Technology, Attendee, Ankara, Turkey, 2018
- 14th International Conference of Combustion, Attendee, Karabük, Turkey, 2018
- International Advanced Researches and Engineering Congress, Attendee, Osmaniye, Turkey, 2017
- VI. Ulusal Havacılık ve Uzay Konferansı, Attendee, Kocaeli, Turkey, 2016
- 8th Ankara International Aerospace Conference, Attendee, Ankara, Turkey, 2015
- III. International Conference on Nuclear and Renewable Energy Resources, Attendee, İstanbul, Turkey, 2012
- VI. Yeni ve Yenilenebilir Enerji Kaynakları Sempozyumu, Attendee, KAYSERİ, Turkey, 2011
- 10th International Conference in Sustainable Energy Technologies (SET2011), Attendee, İstanbul, Turkey, 2011

## Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Thermodynamics, Heat and Mass Transfer, Fuels and Combustion, Computational fluid dynamics, Aeronautical and Space Engineering, Aeronautical Engineering, Flight Sciences, Aircraft System Technologies, Aerodynamics, Aircraft Propulsion Systems, Engineering and Technology

## Representation and Promotion Activities

- Institutional Representation, Directorate General of Civil Aviation, Turkey, Ankara, 2023 - 2023
- Institutional Representation, Türkiye Odalar ve Borsalar Birliği-TOBB, Turkey, İstanbul, 2023 - 2023
- Institutional Representation, Uçak Teknisyenleri Derneği(UTED), Turkey, İstanbul, 2023 - 2023