

Assoc. Prof. HARUN YILMAZ

Personal Information

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Education Information

Doctorate, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Sivil Havacılık, Turkey 2013 - 2018

Undergraduate, Erciyes Üniversitesi, Sivil Havacılık Yüksekokulu, Uçak Gövde Motor, Turkey 2002 - 2007

Research Areas

Mechanical Engineering, Energy, Alternative Energy Resources, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Erzincan Binali Yildirim University, Ali Cavit Çelebioğlu Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor Bölümü, 2021 - Continues

Assistant Professor, Erzincan Binali Yildirim University, Ali Cavit Çelebioğlu Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor Bölümü, 2018 - 2021

Research Assistant, Erzincan Binali Yildirim University, Ali Cavit Çelebioğlu Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor Bölümü, 2016 - 2018

Instructor, Gümüşhane Üniversitesi, Kelkit Aydın Doğan Meslek Yüksekokulu, Ulaştırma Hizmetleri, 2009 - 2016

Academic and Administrative Experience

Director Of Junior College, Erzincan Binali Yildirim University, Ali Cavit Çelebioğlu Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor Bölümü, 2021 - Continues

Head of Department, Erzincan Binali Yildirim University, Ali Cavit Çelebioğlu Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor Bölümü, 2018 - 2021

Gümüşhane Üniversitesi, Kelkit Aydın Doğan Meslek Yüksekokulu, Sivil Hava Ulaştırma İşletmeciliği, 2009 - 2016

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Combustion and emission characteristics of premixed biogas mixtures: An experimental study**
Sivri İ., Yılmaz H., Çam Ö., Yılmaz İ.
International Journal Of Hydrogen Energy, vol.1, no.1, pp.1-10, 2021 (Journal Indexed in SCI Expanded)
- II. **Experimental Investigation of Flame Characteristics of H-2/CO/CH4/CO2 Synthetic Gas Mixtures**
YILMAZ H., ÇAM Ö., YILMAZ İ.
COMBUSTION SCIENCE AND TECHNOLOGY, vol.193, no.11, pp.1843-1865, 2021 (Journal Indexed in SCI)
- III. **Flame and Instability Characteristics of High Hydrogen Content Gas Mixtures**
Yılmaz H., Yılmaz İ.
Energy, vol.223, pp.1-10, 2021 (Journal Indexed in SCI)

- IV. **A comparison study on combustion and emission characteristics of actual synthetic gas mixtures**
YILMAZ H., ÇAM Ö., YILMAZ İ.
FUEL, vol.263, pp.1-6, 2020 (Journal Indexed in SCI)
- V. **Experimental investigation of flame instability in a premixed combustor**
YILMAZ H., ÇAM Ö., YILMAZ İ.
FUEL, vol.262, 2020 (Journal Indexed in SCI)
- VI. **Investigation of combustion and emission performance of a micro combustor: Effects of bluff body insertion and oxygen enriched combustion conditions**
YILMAZ H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.47, pp.25985-25999, 2019 (Journal Indexed in SCI)
- VII. **Effects of synthetic gas constituents on combustion and emission behavior of premixed H-2/CO/CO2/CNG mixture flames**
YILMAZ H., YILMAZ İ.
JOURNAL OF THE ENERGY INSTITUTE, vol.92, no.4, pp.1091-1106, 2019 (Journal Indexed in SCI)
- VIII. **Combustion and emission characteristics of premixed CNG/H-2/CO/CO2 blending synthetic gas flames in a combustor with variable geometric swirl number**
YILMAZ H., YILMAZ İ.
ENERGY, vol.172, pp.117-133, 2019 (Journal Indexed in SCI)
- IX. **Combustion characteristics of premixed hydrogen/air flames in a geometrically modified micro combustor**
YILMAZ İ., YILMAZ H., Cam O., Ilbas M.
FUEL, vol.217, pp.536-543, 2018 (Journal Indexed in SCI)
- X. **Effect of different turbulence models on combustion and emission characteristics of hydrogen/air flames**
YILMAZ H., Cam O., TANGÖZ S., YILMAZ İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.40, pp.25744-25755, 2017 (Journal Indexed in SCI)
- XI. **A numerical study on combustion and emission characteristics of premixed hydrogen air flames**
Cam O., YILMAZ H., TANGÖZ S., YILMAZ İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.40, pp.25801-25811, 2017 (Journal Indexed in SCI)
- XII. **Effect of micro combustor geometry on combustion and emission behavior of premixed hydrogen/air flames**
YILMAZ H., Cam O., YILMAZ İ.
ENERGY, vol.135, pp.585-597, 2017 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Swirler geometry effects (D_h / d_o ratio) on synthetic gas flames: Part 1: Combustion and emission characteristics Suktuvo geometrijos (D_h / d_o) poveikis sintetinių dujų liepsnoms. 1 dalis: degimo ir emisijų charakteristikos**
YILMAZ H., ÇAM Ö., YILMAZ İ.
Energetika, vol.67, no.1-2, pp.48-54, 2021 (Refereed Journals of Other Institutions)
- II. **Swirler geometry effects (d_h/d_o ratio) on synthetic gas flames. Part 2: dynamic flame behaviour at externally altered acoustic conditions**
Yılmaz H., Çam Ö., Yılmaz İ.
ENERGETIKA, vol.67, no.1-2, pp.55-61, 2021 (Refereed Journals of Other Institutions)
- III. **Assessment of Combustion and Emission Characteristics of Various Gas Mixtures under Different Combustion Techniques**
Yılmaz H.
International Journal of Energy Studies, vol.5, no.1, pp.13-41, 2020 (Refereed Journals of Other Institutions)
- IV. **Kaya Gazı Karışımlarının Yanma ve Emisyon Davranışlarının Laboratuvar Ölçekli Bir Yakıcıda Sayısal**

Olarak İncelenmesi

YILMAZ H.

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.3, pp.1579-1589, 2019 (National Refreed University Journal)

V. An experimental study on premixed CNG/H-2/CO2 mixture flames

YILMAZ İ., YILMAZ H., ÇAM Ö.

OPEN ENGINEERING, vol.8, no.1, pp.32-40, 2018 (Journal Indexed in ESCI)

Books & Book Chapters

I. Investigation of an Optimal Operating Condition for a Micro Combustor Regarding Basic Thermophotovoltaic System Requirements

YILMAZ H., ÇAM Ö., YILMAZ İ.

in: The Role of Exergy in Energy and the Environment, Sandro Nižetić Agis Papadopoulos, Editor, Springer International Publishing AG, part of Springer Nature, Cham, pp.27-41, 2018

Refereed Congress / Symposium Publications in Proceedings

I. Experimental Investigation of Combustion Characteristics of Premixed Biogas Flames

Sivri İ., Yılmaz H., Çam Ö., Yılmaz İ.

8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, pp.1-10

II. Combustion Characteristics of Natural Gas at Oxygen Enriched Conditions: Effects of Oxidizer Composition

YILMAZ H.

3. International Mersin Symposium, Mersin, Turkey, 31 October - 02 November 2019, vol.1, no.1, pp.1

III. Flameless Distributed Combustion Characteristics of Syngas Mixtures

YILMAZ H.

3. International Mersin Symposium, Mersin, Turkey, 31 October - 02 November 2019, vol.1, no.1, pp.1

IV. Experimental Investigation of Effects of The Ratio of Swirler Hub Diameter to Outer Diameter (Dh/Do) on Synthetic Gas Flames: Part 2: Dynamic Flame Behaviour at Externally Altered Acoustic Conditions

YILMAZ H., ÇAM Ö., YILMAZ İ.

The 16th International Conference of Young Scientists on Energy Issues (CYSENI 2019), Kaunas, Lithuania, 23 - 24 May 2019, pp.329

V. Experimental Investigation of Effects of The Ratio of Swirler Hub Diameter to Outer Diameter (Dh/Do) on Synthetic Gas Flames: Part 1: Combustion and Emission Characteristics

YILMAZ H., ÇAM Ö., YILMAZ İ.

The 16th International Conference of Young Scientists on Energy Issues (CYSENI 2019), Kaunas, Lithuania, 23 - 24 May 2019, pp.328

VI. Comparison of Combustion and Emission Characteristics of Output Synthetic Gas Compositions of Two Different Power Stations

Yılmaz H., Çam Ö., Yılmaz İ.

7th International Conference on Renewable Fuels Combustion and Fire, Antalya, Turkey, 10 - 12 March 2019, vol.1, no.1, pp.1-10

VII. YÜKSEK H2/CO ORANINA SAHİP SENTETİK GAZ YAKITLARIN YANMA KARAKTERİSTİKLERİNİN DENEYSEL İNCELENMESİ

YILMAZ H., ÇAM Ö., YILMAZ İ.

1. ULUSLARARASI MATEMATİK - MÜHENDİSLİK - FEN VE SAĞLIK BİLİMLERİ KONGRESİ, Şanlıurfa, Turkey, 4 - 07

October 2018, pp.42-49

- VIII. **SENTETİK GAZ YAKITLARIN YANMA KARARSIZLIKLARININ DENEYSEL İNCELENMESİ**
YILMAZ İ., YILMAZ H., ÇAM Ö.
1. ULUSLARARASI MATEMATİK - MÜHENDİSLİK - FEN VE SAĞLIK BİLİMLERİ KONGRESİ, Şanlıurfa, Turkey, 4 - 07 October 2018, pp.33-41
- IX. **Effect of CO₂ Dilution on Premixed H₂/CO/CNG Blending Synthesis Gas Flames**
YILMAZ İ., YILMAZ H., ÇAM Ö., SOYTÜRK M. A.
16th International Conference on Clean Energy (ICCE-2018), Famagusta, Cyprus (Kkct), 9 - 11 May 2018
- X. **An Experimental Study on Effect of Swirl Number and Gas Composition on Combustion and Emission Behavior of Premixed H₂/CO/CNG Blending Synthetic Gas Flames in a Novel Combustor**
Yılmaz H., Çam Ö., Yılmaz İ.
16th International Conference on Clean Energy (ICCE-2018), Gazimagusa, Cyprus (Kkct), 9 - 11 May 2018, vol.1, no.1, pp.1-10
- XI. **Dynamic and Static Flame Behavior of Premixed H₂/CO/CNG/CO₂-Air Mixtures under Externally Modified Acoustic Conditions**
Yılmaz H., Çam Ö., Yılmaz İ.
14 th International Conference of Combustion, Karabük, Turkey, 25 - 27 April 2018, pp.1-10
- XII. **Combustion and Emission Behavior of Premixed CNG/H₂/CO₂ Mixture Flames: Effect of Swirl Number and Gas Composition**
YILMAZ İ., YILMAZ H., ÇAM Ö.
International Research Conference on Sustainable Energy, Engineering, Materials and Environment (SEEME), Newcastle Upon Tyne, United Kingdom, 26 - 28 July 2017, pp.144-150
- XIII. **Numerical Investigation on Combustion Behavior of Premixed Hydrogen/Air Flames in a Micro Combustor with Varying Geometric Properties: Part - I Effect of Backward Facing Step and Cavity**
YILMAZ H., ÇAM Ö., İLBAŞ M., YILMAZ İ.
6th International Conference on Renewable Fuels, Combustion and Fire (FCE'17), Nevşehir, Turkey, 18 - 21 May 2017, pp.212-224
- XIV. **Numerical Investigation on Combustion Behavior of Premixed Hydrogen/Air Flames in a Micro Combustor with Varying Geometric Properties: Part - II Effect of Multi-Channel Arrangement**
YILMAZ H., ÇAM Ö., TANGÖZ S., YILMAZ İ.
6th International Conference on Renewable Fuels, Combustion and Fire (FCE'17), Nevşehir, Turkey, 18 - 21 May 2017, pp.225-236
- XV. **Investigation of Effects of Equivalence Ratio and Thermal Power on Combustion and Emission Behavior of Premixed Hydrogen Air Mixtures in a Micro Combustor**
YILMAZ H., YILMAZ İ., ÇAM Ö.
9th International Exergy, Energy and Environment Symposium (IEEES-9), Split, Croatia, 14 - 17 May 2017
- XVI. **The Effect of Different Turbulence Models on the Flame and Emissions Characteristics of Hydrogen-Air Flames**
YILMAZ H., ÇAM Ö., TANGÖZ S., YILMAZ İ.
9th International Conference on Sustainable Energy and Environmental Protection, Kayseri, Turkey, 22 - 25 September 2016, pp.200-207
- XVII. **Numerical Investigation of NO_x Emissions in a Micro-Cylindrical Combustor with Premixed Hydrogen-Air Mixture**
ÇAM Ö., TANGÖZ S., YILMAZ H., YILMAZ İ.
9th International Conference on Sustainable Energy and Environmental Protection, Kayseri, Turkey, 22 - 25 September 2016, pp.324-330

Supported Projects

Yılmaz İ., TUBITAK Project, Sentetik Gaz Yakıtların Yanma Kararsızlığı ve Alev Geri Tepmesinin İncelenmesi, 2016 - 2018

Yılmaz H., Yılmaz İ., Project Supported by Higher Education Institutions, Sentetik Gaz Yakıtların Yanma Karakteristiklerinin Deneysel İncelenmesi, 2016 - 2018

Citations

Total Citations (WOS):140

h-index (WOS):7