

# Prof. MUSTAFA İLBAŞ

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: CUY-4467-2022

ScopusID: 55932823900

Yoksis Researcher ID: 6522

## Education Information

Doctorate, University of Wales, Cardiff, Mechanical Engineering And Energy Studies, United Kingdom 1993 - 1997

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 1989 - 1991

Undergraduate, Erciyes University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1983 - 1988

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, STUDIES OF ULTRA LOW NOX BURNERS, University of Wales, Cardiff, School of Engineering, Mechanical Engineering And Energy Studies, 1997

Postgraduate, CW CO2 laser tasarımı ve pratik gerçekleştirilmesi, Erciyes University, Kamu Yönetimi, Makine Mühendisliği (YI) (Tezli), 1991

## Research Areas

Energy, Hydrogen Technologies and Fuel Cells , Fuels and Combustion

## Academic Titles / Tasks

Professor, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2011 - Continues

Professor, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, 2009 - 2011

Professor, Erciyes University, Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor Bölümü, 2006 - 2009

Associate Professor, Erciyes University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2000 - 2006

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1997 - 2000

Research Assistant, Erciyes University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1989 - 1997

## Academic and Administrative Experience

Head of Department, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2019 - 2022

Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği Bölümü, 2011 - 2014

Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü, 2006 - 2007

## Courses

Isı ve Kütle Transferi, Undergraduate, 2021 - 2022, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014

Termodinamik-II, Undergraduate, 2021 - 2022, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Yakıtlar ve Yanma, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014, 2012 - 2013

İleri Yanma ve Modelleme, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Enerji Mühendisliğine Giriş, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Mass and Heat Transfer, Postgraduate, 2021 - 2022

Termodinamik-I, Undergraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

İleri Hidrojen Teknolojileri, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Kütle ve Isı Transferi, Doctorate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

## Advising Theses

İlbaş M., Research on combustion and emission characteristics of a gas turbine combustor using ammonia and its blendings as fuel, Doctorate, O.KÜMÜK(Student), 2023

İlbaş M., Genç M. S., Numerical investigation of aerodynamic performance of vertical axis wind turbine, Postgraduate, S.KESKİN(Student), 2023

İlbaş M., Cfd analysis of a model electrolyzer for green hydrogen, Postgraduate, B.TAŞĞIN(Student), 2023

İlbaş M., THE EFFECTS OF THE DISTRIBUTED COMBUSTION TECHNIQUE ON FLAME STABILIZATION AND NOX EMISSION, Postgraduate, G.CANDAN(Student), 2022

İlbaş M., Investigation of combustion and emission behaviors of ammonia-hydrogen and ammonia-coal gases mixture composite fuels, Doctorate, O.KEKÜL(Student), 2022

İlbaş M., NUMERICAL MODELLING OF AMMONIA FUELLED SOLID OXIDE FUEL CELL, Doctorate, M.Asmare(Student), 2022

İlbaş M., NUMERICAL AND EXPERIMENTAL INVESTIGATION OF COAL GAS FUELED SOLID OXIDE FUEL CELL, Doctorate, B.KÜMÜK(Student), 2022

İlbaş M., 2030'a doğru Türkiye'nin sürdürülebilir enerji politikalarının enerji verimliliği ve çevresel açıdan değerlendirilmesi ve yeni yaklaşımlar, Postgraduate, M.GÖKBERK(Student), 2022

İLBAŞ M., Numerical Simulation Of A Model Flat-Tubular Solid Oxide Fuel Cell, Postgraduate, F.Mustafa(Student), 2020

İLBAŞ M., Biogas Production As A Renewable Energy Source In Palestine, Postgraduate, L.ANTARI(Student), 2020

İlbaş M., Model bir Roket Nozulunun Sayısal Simülasyonu ve Performans Parametrelerinin Analizi, Postgraduate, S.BUĞRA(Student), 2020

İLBAŞ M., Biogas Production From Local Sources And Oxy Biogas Combustion, Postgraduate, N.ÜREGEN(Student), 2020

İLBAŞ M., FİLİSİN'DE YENİLENEBİLİR ENERJİ KAYNAĞI OLARAK BİYOGAZ ÜRETİMİ, Postgraduate, L.ANTARI(Student), 2020

İLBAŞ M., KURT E., Numerical And Experimental Investigation Of Heat Transfer In A Generator With 3 Phases Permanent Magnet, Doctorate, M.DEMİRCİ(Student), 2020

İLBAŞ M., Mathematical Modelling And Numerical Analysis Of Cathode Supported Solid Oxide Fuel Cell, Postgraduate,

B.KÜMÜK(Student), 2018

İLBAŞ M., Sentez gazlarının oksijen-yakıt yanması: Deneysel karakterizasyon ve sayısal modelleme, Doctorate,

A.BEKTAŞ(Student), 2018

İLBAŞ M., Energy And Exergy Analysis Of A 160 Tons/Hour Steam Capacity Boiler, Postgraduate, E.EKER(Student), 2017

İLBAŞ M., Numerical Analysis Of Oxygen Enriched Combustion In A Model Combustion Chamber, Postgraduate,

E.YANIK(Student), 2017

İLBAŞ M., Geliştirilen bir yakıcıda kömür gazlarının yanma karakteristiklerinin deneysel ve sayısal olarak araştırılması, Doctorate, S.KARYEYEN(Student), 2016

İLBAŞ M., Analysis Of Biogas Combustion Characteristics In Conventional Burner, Doctorate, M.ŞAHİN(Student), 2016

İLBAŞ M., YILMAZ İ., Hidrojenin ön karışimli ve difüzyon yanmasının sayısal analizi, Postgraduate, İ.ÖZDEMİR(Student), 2014

İLBAŞ M., Numerical analysis of the combustion behaviour of coal gases in a gas turbine model combustor, Postgraduate, S.KARYEYEN(Student), 2013

İLBAŞ M., Computational fluid dynamics (CFD) modelling of hydrogen combustion in a spherical combustor, Postgraduate, Z.GÖKALP(Student), 2013

İLBAŞ M., Termik santrallarda bakım yönetim sisteminin enerji verimliliğine etkileri, Postgraduate, S.ÖZEK(Student), 2012

İLBAŞ M., Kızılötesi ışınlı ısıtıcı kullanan bir kurutucuda ısı ve akış analizi, Postgraduate, M.ŞAHİN(Student), 2012

İLBAŞ M., Motor performans ve emisyon parametrelerinin yapay sinir ağları kullanılarak belirlenmesi, Postgraduate, M.TÜRKMEN(Student), 2011

İLBAŞ M., Hidrojen metan kompozit yakıtlarda emisyon davranışının incelenmesi, Doctorate, İ.Yılmaz(Student), 2008

İLBAŞ M., Hidrojen?metan kompozit yakıtlarda emisyon davranışının incelenmesi, Postgraduate, M.KAPLAN(Student), 2008

İLBAŞ M., Model bir yakıcıda hidrojen-metan karışımının yanmasının sayısal ve deneysel incelenmesi, Doctorate, İ.YILMAZ(Student), 2006

İLBAŞ M., Gaz türbini yanma odasında hidrojen ve hidrokarbon yanmasının modellenmesi ve NOx oluşumunun incelenmesi, Postgraduate, F.HIRKALIOĞLU(Student), 2005

İLBAŞ M., İç içe borulu ısı değiştiricisinde ısı transferinin iyileştirilmesinin nümerik olarak incelenmesi, Postgraduate, N.KAYATAŞ(Student), 2003

İLBAŞ M., Ocak sıcaklığının NOx emisyonu üzerine etkisinin incelenmesi, Postgraduate, A.YILDIRIM(Student), 2002

İLBAŞ M., Sıvı yakıtlı yakma sistemlerinde (kazanlarda) yanma ve emisyon davranışının deneysel olarak incelenmesi, Postgraduate, İ.YILMAZ(Student), 2001

İLBAŞ M., Katı yakıt ocaklarında (soba) ısı verim ve emisyon davranışının deneysel olarak incelenmesi, Postgraduate, İ.ASİLTÜRK(Student), 1999

## Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Gazi Üniversitesi, January, 2021

Associate Professor Exam, Associate Professor Exam, Bartın Üniversitesi, October, 2020

Associate Professor Exam, Associate Professor Exam, İstanbul Medeniyet Üniversitesi, March, 2020

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, December, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Gazi Üniversitesi, June, 2019

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

- Numerical investigation of the laminar burning velocity and adiabatic flame temperature phenomenon for NH<sub>3</sub>/Hydrogen rich coal gases (HRCGs)/air flames**

Kekul O., İlbaş M., Arslan B.

Energy Sources, Part A: Recovery, Utilization, and Environmental Effects , vol.46, no.1, pp.10579-10598, 2024 (SCI-

Expanded)

- II. **Implementation of heat transfer techniques for an axial flux permanent magnet generator design**  
Kurt E., Demirci M., İlbaş M.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART A-JOURNAL OF POWER AND ENERGY, vol.238, no.6, pp.1063-1083, 2024 (SCI-Expanded)
- III. **Characterization and utilization of industrial wastewater in biorefinery systems: A comprehensive approach**  
Castellanos H. G., Aryanfar Y., Fardinnia H., Arslan B., İlbaş M., Keçebaş A.  
Environmental Progress and Sustainable Energy, vol.43, no.4, 2024 (SCI-Expanded)
- IV. **Experimental and Numerical Investigation of Macroencapsulated Phase Change Materials for Thermal Energy Storage**  
Arslan B., İlbaş M.  
Materials, vol.17, no.12, pp.1-25, 2024 (SCI-Expanded)
- V. **Entrainment effects on combustion and emission characteristics of turbulent non-premixed ammonia/air and methane/air swirl flames through a developed perforated burner**  
Sahin M., İLBAŞ M., ARSLAN B.  
CANADIAN JOURNAL OF CHEMICAL ENGINEERING, vol.102, no.3, pp.1066-1077, 2024 (SCI-Expanded)
- VI. **Hydrogen concentration effects on a swirl-stabilized non-premixed burner using ammonia**  
Kekul O., İLBAŞ M., KARYEYEN S.  
International Journal of Hydrogen Energy, vol.52, pp.1288-1305, 2024 (SCI-Expanded)
- VII. **Comparative analysis of ammonia/hydrogen fuel blends combustion in a high swirl gas turbine combustor with different cooling angles**  
Kumuk O., İLBAŞ M.  
International Journal of Hydrogen Energy, vol.52, pp.1404-1418, 2024 (SCI-Expanded)
- VIII. **Conventional and distributed combustion regime on a model thermoelectric generator (TEG) performance using a swirl burner/furnace**  
İLBAŞ M., Akyildiz S., KARYEYEN S., AKTAŞ A.  
Fuel, vol.347, 2023 (SCI-Expanded)
- IX. **Effects of physical properties and operating parameters on numerically developed flat-tube solid oxide fuel cell performance**  
Çimen F. M., İlbas M., Yalcin S.  
International Journal of Hydrogen Energy, vol.48, no.60, pp.23136-23145, 2023 (SCI-Expanded)
- X. **Experimental investigation of the combustion instability behaviors and NO<sub>x</sub> emissions in an ammonia/methane fueled low eddy premixed burner**  
İLBAŞ M., Kumuk O., ALABAŞ B.  
Journal of the Energy Institute, vol.108, 2023 (SCI-Expanded)
- XI. **Numerical and experimental studies on unitized regenerative proton exchange membrane fuel cell**  
Yelegen N., Kümük B., Kaplan R. N., İLBAŞ M., Kaplan Y.  
International Journal of Hydrogen Energy, vol.48, no.35, pp.12969-12981, 2023 (SCI-Expanded)
- XII. **Experimental analysis of hydrogen storage performance of a LaNi<sub>5</sub>-H<sub>2</sub> reactor with phase change materials**  
Arslan B., İlbaş M., Çelik S.  
International Journal of Hydrogen Energy, vol.48, no.15, pp.6010-6022, 2023 (SCI-Expanded)
- XIII. **Numerical investigation of combustion and flame characteristics for a model solid oxide fuel cell performance improvement**  
İlbaş M., Karyeyen S., Çimen F. M.  
FUEL, vol.322, pp.1-8, 2022 (SCI-Expanded)
- XIV. **Effect of Diluent Addition on Combustion Characteristics of Methane/Nitrous Oxide Inverse Tri-Coflow Diffusion Flames**  
Li Y., Chen C., İLBAŞ M.  
COMBUSTION SCIENCE AND TECHNOLOGY, vol.194, no.10, pp.1973-1993, 2022 (SCI-Expanded)

- XV. **Three-dimensional numerical simulation and experimental validation on ammonia and hydrogen fueled micro tubular solid oxide fuel cell performance**  
Asmare M., Ilbas M., Çimen F. M., Timurkutluk C., Onbilgin S.  
International Journal of Hydrogen Energy, vol.47, no.35, pp.15865-15874, 2022 (SCI-Expanded)
- XVI. **Oxidizer effects on ammonia combustion using a generated non-premixed burner**  
İLBAŞ M., Kekul O., Bektas A., KARYEYEN S.  
International Journal of Hydrogen Energy, vol.47, no.24, pp.12317-12337, 2022 (SCI-Expanded)
- XVII. **Modelling of the gas-turbine colorless distributed combustion: An application to hydrogen enriched - kerosene fuel**  
İLBAŞ M., Kumuk O., KARYEYEN S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.24, pp.12354-12364, 2022 (SCI-Expanded)
- XVIII. **Investigation into Thermal-Fluid interaction of ammonia turbulent swirling flames under various Non-Premixed burner conditions**  
İLBAŞ M., Kekul O., KARYEYEN S.  
FUEL, vol.312, 2022 (SCI-Expanded)
- XIX. **Comparative performance analysis of a direct ammonia-fuelled anode supported flat tubular solid oxide fuel cell: A 3D numerical study**  
İLBAŞ M., Alemu M. A., ÇİMEN F. M.  
International Journal of Hydrogen Energy, vol.47, pp.3416-3428, 2022 (SCI-Expanded)
- XX. **Simulation of hydrogen and coal gas fueled flat-tubular solid oxide fuel cell (FT-SOFC)**  
ÇİMEN F. M., KÜMÜK B., İLBAŞ M.  
International Journal of Hydrogen Energy, vol.47, pp.3429-3436, 2022 (SCI-Expanded)
- XXI. **Investigation of the effect of ion transition type on performance in solid oxide fuel cells fueled hydrogen and coal gas**  
Kumuk B., Alemu M. A., İLBAŞ M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.5, pp.3409-3415, 2022 (SCI-Expanded)
- XXII. **Numerical study of a swirl gas turbine combustor for turbulent air and oxy-combustion of ammonia/kerosene fuels**  
İLBAŞ M., Kumuk O., KARYEYEN S.  
FUEL, vol.304, 2021 (SCI-Expanded)
- XXIII. **Experimental and numerical investigation of biogas distributed combustion with different oxidizers in a swirl stabilized combustor**  
İLBAŞ M., Guler N. U., Sahin M.  
FUEL, vol.304, 2021 (SCI-Expanded)
- XXIV. **Numerical modelling and comparative analysis of direct ammonia fuelled protonic and oxygen- ion conducting tubular solid oxide fuel cell**  
Asmare M., İLBAŞ M., Yalcin S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.74, pp.36878-36889, 2021 (SCI-Expanded)
- XXV. **Coal gas fuel utilization effects on electrolyte supported solid oxide fuel cell performance**  
KÜMÜK B., İLBAŞ M.  
International Journal of Hydrogen Energy, vol.46, pp.29523-29528, 2021 (SCI-Expanded)
- XXVI. **Numerical investigation of a direct ammonia tubular solid oxide fuel cell in comparison with hydrogen**  
İlbaş M., Kümük B., Alemu M. A., Arslan B.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.35108-35117, 2020 (SCI-Expanded)
- XXVII. **Application of distributed combustion technique to hydrogen-rich coal gases: A numerical investigation**  
KARYEYEN S., İLBAŞ M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.5, pp.3641-3650, 2020 (SCI-Expanded)
- XXVIII. **Modeling and analysis of a model solid oxide fuel cell running on low calorific value coal gases**  
İLBAŞ M., KÜMÜK B.

- INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.5, pp.3577-3583, 2020 (SCI-Expanded)
- XXIX. **Analysis of the effect of H<sub>2</sub>O content on combustion behaviours of a biogas fuel**  
ŞAHİN M., İLBAŞ M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.5, pp.3651-3659, 2020 (SCI-Expanded)
- XXX. **A new burner for oxy-fuel combustion of hydrogen containing low-calorific value syngases: An experimental and numerical study**  
İLBAŞ M., Bektas A., KARYEYEN S.  
FUEL, vol.256, 2019 (SCI-Expanded)
- XXXI. **Numerical modelling of a cathode-supported solid oxide fuel cell (SOFC) in comparison with an electrolyte-supported model**  
İLBAŞ M., KÜMÜK B.  
JOURNAL OF THE ENERGY INSTITUTE, vol.92, no.3, pp.682-692, 2019 (SCI-Expanded)
- XXXII. **Effect of oxy-fuel combustion on flame characteristics of low calorific value coal gases in a small burner and combustor**  
İLBAŞ M., Bektas A., KARYEYEN S.  
FUEL, vol.226, pp.350-364, 2018 (SCI-Expanded)
- XXXIII. **Experimental and numerical analysis of turbulent premixed combustion of low calorific value coal gases in a generated premixed burner**  
KARYEYEN S., İLBAŞ M.  
FUEL, vol.220, pp.586-598, 2018 (SCI-Expanded)
- XXXIV. **Combustion characteristics of premixed hydrogen/air flames in a geometrically modified micro combustor**  
Yılmaz İ., Yılmaz H., Çam Ö., İlbaş M.  
FUEL, vol.217, pp.536-543, 2018 (SCI-Expanded)
- XXXV. **3D numerical modelling of turbulent biogas combustion in a newly generated 10 KW burner**  
İLBAŞ M., ŞAHİN M., KARYEYEN S.  
JOURNAL OF THE ENERGY INSTITUTE, vol.91, no.1, pp.87-99, 2018 (SCI-Expanded)
- XXXVI. **Turbulent diffusion flames of a low-calorific value syngas under varying turbulator angles**  
İLBAŞ M., KARYEYEN S.  
ENERGY, vol.138, pp.383-393, 2017 (SCI-Expanded)
- XXXVII. **Effects of turbulator angle and hydrogen addition on a biogas turbulent diffusion flame**  
İLBAŞ M., ŞAHİN M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.40, pp.25735-25743, 2017 (SCI-Expanded)
- XXXVIII. **An experimental and numerical study on turbulent combustion of hydrogen-rich coal gases in a generated non-premixed burner**  
İLBAŞ M., KARYEYEN S.  
FUEL, vol.194, pp.274-290, 2017 (SCI-Expanded)
- XXXIX. **Turbulent diffusion flames of coal derived-hydrogen supplied low calorific value syngas mixtures in a new type of burner: An experimental study**  
KARYEYEN S., İLBAŞ M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.4, pp.2411-2423, 2017 (SCI-Expanded)
- XL. **Enhancement of microalgal biomass production and dissolved inorganic C fixation from actual coal flue gas by exogenous salicylic acid and 1-triacontanol growth promoters**  
ERTİT TAŞTAN B., Duygu E., İLBAŞ M., DÖNMEZ G.  
ENERGY, vol.103, pp.598-604, 2016 (SCI-Expanded)
- XLI. **Effect of swirl number on combustion characteristics of hydrogen-containing fuels in a combustor**  
İLBAŞ M., KARYEYEN S., YILMAZ İ.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.17, pp.7185-7191, 2016 (SCI-Expanded)
- XLII. **Numerical modelling of effects of hydrogen supply on combustion behaviours of low calorific value coal gases**  
İLBAŞ M., KARYEYEN S.

- INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.10, pp.16-31, 2016 (SCI-Expanded)
- XLIII. **A numerical study on combustion behaviours of hydrogen-enriched low calorific value coal gases**  
İLBAŞ M., KARYEYEN S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.44, pp.15218-15226, 2015 (SCI-Expanded)
- XLIV. **Investigation of premixed hydrogen flames in confined/unconfined combustors: A numerical study**  
İLBAŞ M., KARYEYEN S., Ozdemir I.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.34, pp.11189-11194, 2015 (SCI-Expanded)
- XLV. **Modelling of combustion performances and emission characteristics of coal gases in a model gas turbine combustor**  
İLBAŞ M., KARYEYEN S.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.38, no.9, pp.1171-1180, 2014 (SCI-Expanded)
- XLVI. **EXPERIMENTAL INVESTIGATION OF DRYING BEHAVIOURS IN AN INFRARED RADIATION DRYER**  
AKTAŞ M., İLBAŞ M., Yalçın A., ŞAHİN M.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.28, no.4, pp.767-775, 2013 (SCI-Expanded)
- XLVII. **Effect of turbulence and radiation models on combustion characteristics in propane-hydrogen diffusion flames**  
YILMAZ İ., TAŞTAN M., İLBAŞ M., TARHAN C.  
ENERGY CONVERSION AND MANAGEMENT, vol.72, pp.179-186, 2013 (SCI-Expanded)
- XLVIII. **Utilization of LPG and gasoline engine exhaust emissions by microalgae**  
Tastan B., Duygu E., İLBAŞ M., DÖNMEZ G.  
JOURNAL OF HAZARDOUS MATERIALS, vol.246, pp.173-180, 2013 (SCI-Expanded)
- XLIX. **Numerical analysis of confined and unconfined hydrogen turbulent flames**  
İLBAŞ M., Ozkan M.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.36, no.15, pp.1326-1330, 2012 (SCI-Expanded)
- L. **Investigation of hydrogen usage in aviation industry**  
YILMAZ İ., İLBAŞ M., TAŞTAN M., TARHAN C.  
ENERGY CONVERSION AND MANAGEMENT, vol.63, pp.63-69, 2012 (SCI-Expanded)
- LI. **INVESTIGATION OF POLLUTANT EMISSIONS IN AIRCRAFT GAS TURBINE ENGINES**  
YILMAZ İ., İLBAŞ M.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, no.2, pp.343-351, 2012 (SCI-Expanded)
- LII. **Experimental analysis of the effects of hydrogen addition on methane combustion**  
İLBAŞ M., YILMAZ İ.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.36, no.5, pp.643-647, 2012 (SCI-Expanded)
- LIII. **ESTIMATION OF EXHAUST GAS TEMPERATURE USING ARTIFICIAL NEURAL NETWORK IN TURBOFAN ENGINES**  
İLBAŞ M., TÜRKMEN M.  
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.32, no.2, pp.11-18, 2012 (SCI-Expanded)
- LIV. **Experimental investigation of thermoacoustic coupling using blended hydrogen-methane fuels in a low swirl burner**  
YILMAZ İ., Ratner A., İLBAŞ M., Huang Y.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.1, pp.329-336, 2010 (SCI-Expanded)
- LV. **EVALUATION OF COMBUSTION MODEL CONSTANT IN COMBUSTION OF HYDROGEN-METHANE MIXTURE**  
YILMAZ İ., İLBAŞ M.  
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.30, no.1, pp.45-57, 2010 (SCI-Expanded)
- LVI. **An experimental study on hydrogen-methane mixtured fuels**  
YILMAZ İ., İlbas M.

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.35, no.2, pp.178-187, 2008 (SCI-Expanded)

- LVII. Laminar-burning velocities of hydrogen-air and hydrogen-methane-air mixtures: An experimental study**  
İlbas M., Crayford A. P., YILMAZ İ., Bowen P. J., Syred N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.31, no.12, pp.1768-1779, 2006 (SCI-Expanded)
- LVIII. Investigation of thermal aspects of hydrogen storage in a LaNi<sub>5</sub>-H-2 reactor**  
Kaplan Y., İlbas M., Mat M. D., Demiralp M., Veziroglu T. N.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.30, no.6, pp.447-458, 2006 (SCI-Expanded)
- LIX. Hydrogen as burner fuel: modelling of hydrogen-hydrocarbon composite fuel combustion and NO<sub>x</sub> formation in a small burner**  
İlbas M., YILMAZ İ., Veziroglu T., Kaplan Y.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.29, no.11, pp.973-990, 2005 (SCI-Expanded)
- LX. The effect of thermal radiation and radiation models on hydrogen-hydrocarbon combustion modelling**  
İlbas M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.30, no.10, pp.1113-1126, 2005 (SCI-Expanded)
- LXI. Investigations of hydrogen and hydrogen-hydrocarbon composite fuel combustion and NO<sub>x</sub> emission characteristics in a model combustor**  
İlbas M., YILMAZ İ., Kaplan Y.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.30, no.10, pp.1139-1147, 2005 (SCI-Expanded)

## Articles Published in Other Journals

- I. Numerical simulation of premixed turbulent methane combustion in a multi-inlet cyclone combustor**  
Yerzhan A., İLBAŞ M.  
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, 2024 (ESCI)
- II. Flame and Flow Analysis of LPG in Household Cookers with Rectangular Ports**  
Sahin B., DÖNER N., İLBAŞ M.  
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, no.3, 2024 (ESCI)
- III. Pressure analysis investigation of PEM electrolyzer cell used for green hydrogen production**  
Taşgin B., İLBAŞ M.  
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.26, pp.1533-1541, 2023 (ESCI)
- IV. Ön Karışımli Bir Yakıcıda Kok Fırını Gazı Yanma Karakteristiklerinin Sayısal Olarak İncelenmesi**  
Taşdemir S., Karyeyen S., İlbaş M.  
Gazi University Journal of Science Part C: Design and Technology, vol.10, no.1, pp.135-152, 2022 (Peer-Reviewed Journal)
- V. COLORLESS DISTRIBUTED COMBUSTION OF DIFFUSION METHANE FLAME USING A TWO CYCLONE INLET BURNER**  
Kekeç K. B., Karyeyen S., İlbaş M.  
International Journal of Energy for a Clean Environment, vol.23, no.1, pp.1-17, 2022 (Scopus)
- VI. Performance Analysis of Machine Learning Algorithms in Intrusion Detection Systems**  
ÇİMEN F. M., SÖNMEZ Y., İLBAŞ M.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.9, no.6, pp.251-258, 2021 (Peer-Reviewed Journal)
- VII. BIOGAS PRODUCTION FROM DOMESTIC RESOURCES AS AN ALTERNATIVE ENERGY SOURCE: A COMPREHENSIVE FEASIBILITY STUDY**  
İlbaş M., Antari L. O. A., Şahin M.  
International Journal of Energy for a Clean Environment, vol.23, no.1, pp.97-107, 2021 (Scopus)
- VIII. A numerical study on the melting behaviors of paraffin with and without Al<sub>2</sub>O<sub>3</sub> nanoparticles**  
Arslan B., İlbaş M.



JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.24, no.3, pp.1243-1248, 2021 (ESCI)

- IX. **Numerical Comparison of Planar and Micro-Tubular Solid Oxide Fuel Cells**  
İlbaş M., Çimen F. M., Kümük B.  
Politeknik Dergisi, vol.24, no.2, pp.593-597, 2021 (ESCI)
- X. **Direct ammonia fueled solid oxide fuel cells: A comprehensive review on challenges, opportunities and future outlooks**  
Asmare M., İlbaş M.  
International Journal of Energy Technology, vol.2, no.1, pp.70-91, 2020 (Peer-Reviewed Journal)
- XI. **Modeling and experimental validation of flow phenomena for optimum rotor blades of a new type permanent magnet generator**  
İLBAŞ M., Demirci M., KURT E.  
SN APPLIED SCIENCES, vol.1, no.12, 2019 (ESCI)
- XII. **Numerical Investigations of Phase Change Materials (PCMs) for Thermal Energy Storage Systems: An Overview**  
ARSLAN B., İLBAŞ M.  
International Journal of Energy Studies, vol.4, no.9, 2019 (Peer-Reviewed Journal)
- XIII. **Numerical Investigation of Microjet Assisted Diluents Usage on Effect of NOX Emissions in Turbulent Methane Flame**  
KARYEYEN S., İLBAŞ M.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.21, no.3, pp.715-721, 2018 (ESCI)
- XIV. **Oksitleyiciye su buharı ilavesinin kok fırını gazı yanma davranışlarına olan etkisinin sayısal olarak incelenmesi**  
KARYEYEN S., İLBAŞ M.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.6, no.2, pp.71-87, 2018 (Peer-Reviewed Journal)
- XV. **Oxygen Enriched Combustion of Coke Oven Gas and Generator Gas: A Numerical Study**  
İLBAŞ M., Yanık E., KARYEYEN S.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.21, no.1, pp.93-100, 2018 (ESCI)
- XVI. **Experimental analysis of premixed and non-premixed methane flames by using a new combustion system**  
İLBAŞ M., KARYEYEN S.  
Research on Engineering Structures and Materials, vol.4, no.1, pp.1-14, 2018 (Peer-Reviewed Journal)
- XVII. **Computational characterization of an axial rotor fan**  
KURT E., DEMİRCİ M., FERNANDEZ GAMIZ U., İLBAŞ M., ZULUETA E., RAMOS HERNANZ J. A., JOSE ANTONIO L. G.  
JOURNAL OF ENERGY SYSTEMS, vol.1, no.1, pp.129-137, 2017 (Scopus)
- XVIII. **Experimental Investigation of Flue Gas Combustion Parameters of Non-Premixed and Premixed Methane Flames**  
İLBAŞ M., KARYEYEN S., Çilingir K.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.19, no.3, pp.357-365, 2016 (ESCI)
- XIX. **Ön Karışimsız ve Ön Karışimli Metan Alevlerinin Baca Yanma Parametrelerinin Deneysel Olarak İncelenmesi**  
İLBAŞ M., KARYEYEN S., ÇİLİNGİR K.  
Politeknik Dergisi, vol.19, no.3, pp.357-365, 2016 (Peer-Reviewed Journal)
- XX. **Ön Karışimsız ve Ön Karışimli Metan Alevlerinin Baca Gazı Yanma Parametrelerinin Deneysel Olarak İncelenmesi**  
İLBAŞ M., KARYEYEN S., ÇİLİNGİR K.  
Politeknik Dergisi, vol.19, no.3, pp.357-365, 2016 (Peer-Reviewed Journal)
- XXI. **Combustion Behaviours of Different Biogases in an Existing Conventional Natural Gas Burner: An Experimental Study**  
İLBAŞ M., ŞAHİN M., KARYEYEN S.  
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.6, no.3, pp.1178-1188, 2016 (ESCI)

- XXII. **EXPERIMENTAL INVESTIGATION OF DRYING BEHAVIOURS IN AN INFRARED RADIATION DRYER**  
Aktaş M., İlbaş M., Yalçın A., Şahin M.  
Gazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.28, no.4, pp.767-775, 2013 (Scopus)
- XXIII. **Kok Fırını Gazının Model Bir Gaz Türbini Yanma Odasındaki Yanma Performansının Sayısal Olarak İncelenmesi**  
İLBAŞ M., KARYEYEN S.  
POLİTEKNİK DERGİSİ, vol.15, no.4, pp.171-176, 2012 (ESCI)
- XXIV. **Gaz Türbini Yanma Odasında Hidrojen ve Hidrokarbon Yanmasının Modellenmesi ve NOx Oluşumunun İncelenmesi**  
İlbaş M., Yılmaz İ., Özkan F.  
Mühendis ve Makina, vol.47, no.559, pp.35-44, 2006 (Peer-Reviewed Journal)
- XXV. **İÇ İÇE BORULU MODEL BİR ISI DEĞİŞTİRİCİSİNDE ISI TRANSFERİNİN İYİLEŞTİRİLMESİNİN SAYISAL OLARAK İNCELENMESİ**  
İlbaş M., Kayataş Demir N.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.21, no.1, pp.128-139, 2005 (Peer-Reviewed Journal)
- XXVI. **Ocak Sıcaklığının NOx Emisyonu Üzerindeki Etkisinin Nümerik Olarak İncelenmesi**  
İlbaş M., Yılmaz İ., Yıldırım A.  
Mühendis ve Makina, vol.44, pp.32-44, 2003 (Peer-Reviewed Journal)
- XXVII. **FARKLI ISIL GÜÇLERDEKİ KAZANLARDA YANMA VE EMİSYON DAVRANIŞININ ARAŞTIRILMASI**  
İlbaş M., Yılmaz İ.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.18, no.1, pp.18-27, 2002 (Peer-Reviewed Journal)
- XXVIII. **KÖMÜR SOBALARINDA ISIL VERİM VE EMİSYON DAVRANIŞININ DENEYSEL OLARAK İNCELENMESİ**  
İlbaş M., Asiltürk İ., Kahraman N.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.17, no.1, pp.43-48, 2001 (Peer-Reviewed Journal)
- XXIX. **Mühendislik Eğitimi ve Eğitimde Yeni Yaklaşımlar**  
İlbaş M., Su Ş.  
Politeknik Dergisi, vol.3, pp.17, 2000 (Peer-Reviewed Journal)
- XXX. **Geçiş Borularında Akışın Nümerik Olarak İncelenmesi**  
İlbaş M.  
Politeknik Dergisi, vol.1, pp.17-22, 2000 (Peer-Reviewed Journal)
- XXXI. **Doğalgaz Tesisatı Uygulamalarında Emniyet**  
İlbaş M.  
TMMOB, MMO Bülteni, no.18, pp.1, 2000 (Non Peer-Reviewed Journal)
- XXXII. **Eğitimde İnteraktif Multimedya Kullanımı İçin Bilgisayar Ağları ve Yeni Teknolojiler**  
İlbaş M., Alkan M.  
Politeknik Dergisi, vol.4, pp.10-20, 2000 (Peer-Reviewed Journal)
- XXXIII. **Teknik Eğitimde İnteraktif Multimedya Kullanımı**  
İlbaş M.  
TMMOB, MMO Bülteni, no.17, pp.41-43, 1999 (Non Peer-Reviewed Journal)
- XXXIV. **ABSORBSİYONLU SOĞUTMA SİSTEMLERİNDE KULLANILAN ABSORBERİN SİMÜLASYONU**  
İlbaş M., Kaplan Y.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.15, no.1, pp.1-11, 1999 (Peer-Reviewed Journal)
- XXXV. **Biyokütle ve Kömürün Birlikte Yanması**  
İlbaş M., Kaplan Y.  
Niğde Üniversitesi Mühendislik Bilimleri Dergisi, no.1, pp.20-25, 1998 (Peer-Reviewed Journal)
- XXXVI. **Elbak Bakır Tasfiye Fırınında Baca Gazı Emisyon Kontrolü ve En iyi uygulanabilir sistemin (EUS) belirlenmesi**  
İlbaş M., Kaplan Y.  
Niğde Üniversitesi Mühendislik Bilimleri Dergisi, no.1, pp.88-94, 1997 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Enerji politik dünya ve Türkiye**  
İlbaş M.  
Berikan Elektronik Basım Yayın, Ankara, 2014
- II. **Fuels and Combustion**  
İLBAŞ M., zehra g. ö., KARYEYEN S.  
in: Progress in Exergy Energy and the Environment, Ibrahim Dincer, Adnan Midilli, Haydar Kucuk, Editor, Springer, pp.991-1000, 2014
- III. **Part 6: Fuels and Combustion**  
İLBAŞ M., GÖKALP ÖZTÜRK Z., KARYEYEN S.  
in: Progress in Exergy Energy and Environment, İbrahim DİNÇER, Adnan MİDİLLİ, Haydar KÜÇÜK, Editor, SPRINGER, pp.991-1000, 2014

## Refereed Congress / Symposium Publications in Proceedings

- I. **Hydrogen Blended Natural Gas Fuelled A Process Heating Application**  
Salcı O., Öztuna S., İlbaş M.  
8th International HYDROGEN TECHNOLOGIES Congress, Diyarbakır, Turkey, 12 - 15 May 2024, pp.363-366
- II. **Performance analysis of roughness-controlled vertical axis wind turbine**  
KESKİN S., İLBAŞ M., GENÇ M. S., Karasu İ.  
AIAA Aviation Forum and ASCEND, 2024, Nevada, United States Of America, 29 July - 02 August 2024
- III. **NUMERICAL ANALYSIS OF A MODEL VERTICAL AXIS WIND TURBINE**  
Keskin S., Karasu İ., Genç M. S., İlbaş M.  
7. INTERNATIONAL SYMPOSIUM ON CURRENT DEVELOPMENTS IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES, Ankara, Turkey, 26 - 27 May 2023, pp.1-8
- IV. **Numerical Investigation of Combustion and Flame Characteristics in a Swirl Burner/Furnace for a Model Thermoelectrical Generator(TEG) Performance**  
İLBAŞ M., Akyıldız S., KARYEYEN S., AKTAŞ A.  
INTERNATIONAL COMBUSTION SYMPOSIUM (INCOS), Turkey, 08 September 2022
- V. **Numerical Investigations on Thermal Performance and Flame Stability of Hydrogen Diluted Ammonia Fueled Swirl Burner and Furnace**  
KEKÜL O., İLBAŞ M., KARYEYEN S.  
INTERNATIONAL COMBUSTION SYMPOSIUM (INCOS), Turkey, 08 September 2022
- VI. **Numerical Study On The Performance Of A Flat-Tubular Solid Oxide Fuel Cell: Describing The Best Furnace/Combustion Chamber Geometry And Combustion Technique**  
ÇİMEN F. M., KARYEYEN S., İLBAŞ M.  
INTERNATIONAL COMBUSTION SYMPOSIUM (INCOS), Turkey, 08 September 2022
- VII. **Three-Dimensional Modelling Of Ammonia/Methane/Air Turbulent Flames In A Generated Perforated Burner And Furnace**  
Şahin M., İlbaş M.  
16th INTERNATIONAL COMBUSTION SYMPOSIUM (INCOS 2022), Aydın, Turkey, 8 - 11 September 2022, pp.187-191
- VIII. **Three Dimensional Numerical Investigation Of Flow And Combustion Characteristics In An Ammonia Fueled Multi-Inlet Cyclone Combustor**  
İlbaş M., Yerzhan A., Demirci M.  
16th INTERNATIONAL COMBUSTION SYMPOSIUM (INCOS 2022), Aydın, Turkey, 8 - 11 September 2022, pp.101-105
- IX. **3D Simulation Of Ammonia/Hydrogen Fuel Blends Combustion Under High Swirl Gas Turbine Conditions**

Kümük O., İlbaş M.

16th INTERNATIONAL COMBUSTION SYMPOSIUM (INCOS 2022), Aydın, Turkey, 8 - 11 September 2022, pp.567-571

- X. **Investigations of flame characteristics of LPG used in three different size household cookers**  
Şahin B., Döner N., İlbaş M.  
16th Combustion Symposium (INCOS2022), Aydın, Turkey, 8 - 11 September 2022, pp.1-10
- XI. **Effects of Electrode Thicknesses on Cell Performance in a Developed Flat-Tubular Solid Oxide Fuel Cell (FT-SOFC)**  
İlbaş M., Çimen F. M.  
The Sixth International Hydrogen Technologies Congress, Çanakkale, Turkey, 23 - 26 January 2022, pp.98-100
- XII. **Saldırı Tespit Sistemlerinde Makine Öğrenim Algoritmalarının Performans Analizi**  
Çimen F. M., Sönmez Y., İlbaş M.  
3rd International Conference on Artificial Intelligence and Applied Mathematics in Engineering (ICAIAME 2021), Antalya, Turkey, 1 - 03 October 2021, pp.35
- XIII. **EXPERIMENTAL STUDY OF NATURAL CONVECTION HEAT TRANSFER ON A PERMANENT MAGNET AXIAL FLUX GENERATOR**  
Demirci M., İlbaş M., Kurt E.  
23RD CONGRESS ON THERMAL SCIENCE AND TECHNOLOGY WITH INTERNATIONAL PARTICIPATION, Gaziantep, Turkey, 8 - 10 September 2021, pp.76-81
- XIV. **INVESTIGATION OF FORCED CONVECTION ON THE COILS FOR A PERMANENT MAGNET AXIAL FLUX GENERATOR**  
Demirci M., İlbaş M., Kurt E.  
23RD CONGRESS ON THERMAL SCIENCE AND TECHNOLOGY WITH INTERNATIONAL PARTICIPATION, Gaziantep, Turkey, 8 - 10 September 2021, pp.82-88
- XV. **CFD Simulation of Flowfield and Turbulence Interaction in an Ammonia Fueled Combustor under Different Combustion Conditions**  
İLBAŞ M., KARYEYEN S., KEKÜL O.  
8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Turkey, 05 March 2021
- XVI. **Numerical Analysis of Kerosene Fuelled Colorless Distributed Combustion (CDC) in A Model Swirl Gas Turbine Combustor**  
İLBAŞ M., KÜMÜK O., KARYEYEN S.  
8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Turkey, 5 - 07 March 2021
- XVII. **Numerical Investigation of A Model Flat-Tubular Solid Oxide Fuel Cell**  
Çimen F. M., Kümük B., İlbaş M.  
8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, pp.332-337
- XVIII. **Numerical Modelling of Direct Ammonia Feed Anode Supported Flat-tubular Solid Oxide Fuel Cell**  
İlbaş M., Alemu M. A., Çimen F. M.  
8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, pp.141-145
- XIX. **Combustion Characteristics of Oxy-Ammonia Combustion in a Non-Premixed Burner**  
KEKÜL O., İLBAŞ M., KARYEYEN S.  
15th International Combustion Symposium (INCOS), 17 - 19 September 2020
- XX. **Swirl Combustion of Kerosene and Ammonia-Assisted Kerosene Fuels in a Model Gas Turbine Combustor: A Numerical Study**  
İLBAŞ M., KÜMÜK O., KARYEYEN S.  
15th International Combustion Symposium (INCOS), 17 - 19 September 2020
- XXI. **Combustion of Methane Using a Cyclonic Burner under Colorless Distributed Combustion Conditions**  
KEKEÇ K. B., KARYEYEN S., İLBAŞ M.  
15th International Combustion Symposium (INCOS), 17 - 19 September 2020
- XXII. **Experimental investigation of biogas distributed combustion in a model combustor**

- İLBAŞ M., Üregen Güler N., ŞAHİN M.  
INCOS 2020, 17 - 19 September 2020
- XXIII. **Biogas Production as an alternative energy source in developing countries palestine as a case study**  
İLBAŞ M., ANTARI L., ŞAHİN M.  
INCOS 2020, 17 September 2020
- XXIV. **Numerical Analysis of Three-Dimensional Isothermal and Non-Isothermal PEM Fuel Cell Model**  
İLBAŞ M., İLHAN G. Ö., KÜMÜK B., ÖZDEMİR B.  
4th International Hydrogen Technologies Congress (IHTEC-2019), Edirne, Turkey, 20 - 23 June 2019, pp.127-130
- XXV. **Numerical Modeling of a Model Tubular Solid Oxide Fuel Cell Running on Amonia in Comparison with Hydrogen**  
İLBAŞ M., KÜMÜK B., ALEMU M. A., ÖZDEMİR B.  
4th International Hydrogen Technologies Congress (IHTEC-2019), Edirne, Turkey, 20 - 23 June 2019, pp.123-126
- XXVI. **The effect of swirl number on combustion characteristics of biogas fuel in a combustor**  
İLBAŞ M., ŞAHİN M., KARYEYEN S.  
7 th International Conference on Renewable Fuels Combustion and Fire, 10 - 13 March 2019
- XXVII. **CFD ANALYSIS OF FLOW PHENOMENA FOR OPTIMUM ROTOR BLADES**  
İLBAŞ M., demirci m., KURT E.  
7. EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS, Madrid, Spain, 10 - 12 June 2019
- XXVIII. **OXY-FUEL COMBUSTION OF HYDROGEN CONTAINING LOW-CALORIFIC VALUE SYNGASES: AN EXPERIMENTAL AND NUMERICAL STUDY**  
BEKTAŞ A., İLBAŞ M., KARYEYEN S.  
7th INTERNATIONAL FUELS, COMBUSTION AND FIRE CONFERENCE IN ENGINEERING (FCE 19), Antalya, Turkey, 10 - 13 March 2019, pp.4-11
- XXIX. **Designing and Numerical Analysis of a High Pressure Hydrogen Storage Tank**  
İLBAŞ M., YILDIRIM S. C., ÖZDEMİR B., KÜMÜK B.  
4th International Conference on Viable Energy Trends (INVENT-2019), İstanbul, Turkey, 26 - 28 April 2019, pp.108-115
- XXX. **Effect of Oxidizer Concentration on Combustion Characteristicsof Diffusion Flames**  
İLBAŞ M., KARYEYEN S., ŞAHİN M.  
WITAM 2018, 21 - 23 September 2018
- XXXI. **A Review of Numerical Studies on Energy Storage in Phase Change Materials (PCMs)**  
İLBAŞ M., ÖZDEMİR B., ŞAHİN M.  
International Congress on the World of Technology and Advanced Materials (WITAM-2018), Kırşehir, Turkey, 21 - 23 September 2018
- XXXII. **Effects Of H2O Content On A Non-Premixed Biogas Flame Characteristics And Emissions**  
ŞAHİN M., İLBAŞ M.  
7th GLOBAL CONFERENCE on GLOBAL WARMING, 24 - 28 June 2018
- XXXIII. **Numerical investigations of hydrogen-rich syngases under distributed combustion conditions**  
KARYEYEN S., İLBAŞ M.  
7th Global Conference on Global Warming (GCGW-2018), 24 - 28 June 2018
- XXXIV. **NUMERICAL ANALYSIS OF A MODEL SOLID OXIDE FUEL CELL(SOFC) BY USING LOW CALORIFIC VALUE COAL GASES**  
İLBAŞ M., KÜMÜK B.  
7th GLOBAL CONFERENCE on GLOBAL WARMING, 24 - 26 June 2018
- XXXV. **Oxy-Fuel Combustion of Coke Oven Gas under Distributed Combustion Conditions**  
İLBAŞ M., KARYEYEN S.  
14th International Combustion Symposium (INCOS2018), 25 - 27 April 2018
- XXXVI. **Model Bir Katı Oksit Yakıt Pilinin (KOYP) Performansına Etki Eden Faktörlerin Sayısal İncelenmesi**  
İLBAŞ M., ABDÜSSELAMOĞLU B.  
21. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 13 - 16 September 2017
- XXXVII. **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

- XXXVIII. **The effect of pressure on the biogas flame characteristics: a numerical study**  
Sahin M., İLBAŞ M.  
6th International Conference on Renewable Fuels Combustion and Fire, 18 - 21 May 2017
- XXXIX. **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.  
6 th International Conference on Renewable Fuels Combustion and Fire, 18 - 21 May 2017
- XL. **Oxy-fuel combustion of low calorific value coal gases: burner modifications and flame characteristics**  
İLBAŞ M., BEKTAŞ A., KARYEYEN S.  
6 th International Conference on Renewable Fuels Combustion and Fire, 18 - 21 May 2017
- XLI. **Experimental Analysis of Turbulent Premixed Coal Gas Combustion**  
KARYEYEN S., İLBAŞ M.  
6 th International Conference on Renewable Fuels Combustion and Fire, 18 - 21 May 2017
- XLII. **Experimental and Numerical Analysis of Cold Flow in a Combustor**  
İLBAŞ M., KAHRAMAN A., KARYEYEN S.  
2nd International Conference on Viable Energy Trends, 28 - 30 April 2017
- XLIII. **Experimental and numerical analysis of cold flow in a combustor**  
İLBAŞ M., Kahraman A., KARYEYEN S.  
2nd International Conference on Viable Energy Trends, 28 - 30 April 2017
- XLIV. **The Effect of Turbulator Angle on Biogas Turbulent Diffusion Flames**  
İLBAŞ M., ŞAHİN M.  
9th International Conference on Sustainable Energy and Environmental Protection, 22 - 25 September 2016
- XLV. **COMBUSTION AND EMISSION BEHAVIOURS OF BLENDING FUELS**  
İLBAŞ M.  
9th International Conference on Sustainable Energy and Environmental Protection, 22 - 25 September 2016
- XLVI. **Turbulent Diffusion Flames of a Low Calorific Value Syngas Under Varying Turbulator Angles**  
İLBAŞ M., KARYEYEN S.  
9th International Conference on Sustainable Energy and Environmental Protection, 22 - 25 September 2016
- XLVII. **Premixed Turbulent Combustion of Hydrogen Containing Fuels An Experimental Study**  
İLBAŞ M., KARYEYEN S.  
Belgian Section of the Combustion Institute, 18 - 20 May 2016
- XLVIII. **Determination of Emission Characteristics of Premixed and Diffusion Methane Flames An Experimental Study**  
İLBAŞ M., KARYEYEN S.  
8TH EGE ENERGY SYMPOSIUM AND EXHIBITION, 11 - 13 May 2016
- XLIX. **Experimental Investigation of Temperature Measurements of Premixed and Diffusion Methane Flames**  
İLBAŞ M., KARYEYEN S.  
8TH EGE ENERGY SYMPOSIUM AND EXHIBITION, 11 - 13 May 2016
- L. **EFFECT OF SWIRL NUMBER ON TEMPERATURE LEVELS OF HYDROGEN CONTAINING FUELS IN A COMBUSTOR**  
İLBAŞ M., KARYEYEN S., YILMAZ İ.  
17. International Conference on Emerging Nuclear Energy Sciences, 4 - 08 October 2015
- LI. **Effect of Swirl Number on Temperature Levels of Hydrogen Containing Fuels in a Combustor**  
İLBAŞ M., KARYEYEN S., YILMAZ İ.  
17th International Conference on Emerging Nuclear Energy Systems (ICENES\_2015), 4 - 08 October 2015
- LII. **Model bir yanma odasında N2 ve CO2 seyrelticilerinin kok fırını gazı yanma performansına olan**

**etkisinin nümerik olarak incelenmesi**

İLBAŞ M., KARYEYEN S.

20. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 2 - 05 September 2015

- LIII. **Combustion behaviours of hydrogen enriched low calorific value coal gases A numerical study**  
İLBAŞ M., KARYEYEN S.  
4. International Conference on Nuclear and Renewable Energy Resources, 26 - 29 October 2014
- LIV. **Energy Analysis of an Infrared Dryer for Different Drying Conditions**  
AKTAŞ M., İLBAŞ M., KARYEYEN S., ŞAHİN M.  
7th International Ege Energy Symposium Exhibition, Uşak, Turkey, 18 - 20 July 2014
- LV. **Numerical Investigation of Premixed Hydrogen Flames in Confined Unconfined Combustors**  
İLBAŞ M., ÖZDEMİR İ., KARYEYEN S.  
7th International Ege Energy Symposium & Exhibition, Uşak, Turkey, 18 - 20 June 2014
- LVI. **Numerical Investigation of Effects of Hydrogen Addition on Combustion Characteristics of Low Calorific Value Coal Gases**  
İLBAŞ M., KARYEYEN S.  
13th International Conference on Clean Energy, 15 - 17 June 2014
- LVII. **CO2 emissions control process The effect of coal emissions on Chlorella sp**  
ERTİT TAŞTAN B., Duygu E., İLBAŞ M., DÖNMEZ G.  
ICBMB 2014 International Conference on Biochemistry and Molecular Biology 17-19 April 2014, Vienna, Austria, 17 - 19 March 2014
- LVIII. **Energy and Exergy Analysis of an Existing Gas Turbine**  
İLBAŞ M., KARYEYEN S.  
II. European Workshop on Renewable Energy Systems, 20 - 22 September 2013
- LIX. **Three Dimensional Numerical Modelling of Hydrogen Combustion in a Spherical Model Combustor**  
İLBAŞ M., ZEHRA G. Ö., KARYEYEN S.  
The Sixth International Exergy, Energy and Environment Symposium, Rize, Turkey, 1 - 04 July 2013
- LX. **Effects of the Maintenance Management System on Energy Efficiency of Thermal Power Plants**  
İLBAŞ M., SERKAN Ö., KARYEYEN S.  
III. International Conference on Nuclear and Renewable Energy Resources, 20 May 2012 - 23 May 2013
- LXI. **Experimental Characterization of Hydrogen-Methane Blending Fuel Combustion in a Model Combustor**  
İlbaş M., Yılmaz İ.  
4th International Exergy, Energy and Environment Symposium, Sharjah, United Arab Emirates, 19 April 2009, pp.1-4
- LXII. **Rüzgar Enerjisinden Yenilenebilir Hidrojen Üretimi.**  
Yılmaz İ., İlbaş M.  
IV. Yeni ve Yenilenebilir Enerji Kaynakları Sempozyumu, Kayseri, Turkey, 23 November 2007 - 24 November 2021, pp.409-414
- LXIII. **Hidrojen-Metan Karışımli Kompozit Yakıt Yanmasının Araştırılması**  
Yılmaz İ., İlbaş M.  
Uluslararası 9. Yanma Sempozyumu, Kırıkkale, Turkey, 16 November 2006, pp.80-88
- LXIV. **Hidrojen-Metan Karışımlarının Yanması**  
Yılmaz İ., İlbaş M.  
I. Ulusal Havacılık ve Uzay Konferansı, Ankara, Turkey, 21 September 2006, pp.1-7
- LXV. **Hidrojen ve Hidrojen-Metan Kompozit Yakıtlarda Yanma ve Alev Hızları**  
İlbaş M., Crayford A., Yılmaz İ., Bowen P., Syred N.  
III. Ulusal Hidrojen Enerjisi Kongresi, İstanbul, Turkey, 17 July 2006, pp.1-6
- LXVI. **Sivil Havacılıkta Yeni ve Temiz Bir Yakıt: Hidrojen**  
Yılmaz İ., İlbaş M.  
Kayseri VI. Havacılık Sempozyumu, Nevşehir, Turkey, 12 May 2006, pp.55-59
- LXVII. **Gaz Türbini Yanma Odasında Hidrojen ve Hidrokarbon Yanmasının Modellenmesi ve NOx**

## **Oluşumunun İncelenmesi**

İlbaş M., Yılmaz İ.

Kayseri VI. Havacılık Sempozyumu, Nevşehir, Turkey, 12 May 2006, pp.289-292

### **LXVIII. Experimental and numerical studies of a large oil fired furnace**

İlbaş M., Syred ., Bowen .

44th AIAA Aerospace sciences Meeting and Exhibit, Nevada, United States Of America, 09 January 2006, pp.1-9

### **LXIX. Geliştirilen Model Yakıcıda Hidrojen Yanması Üzerine Araştırmalar**

Yılmaz İ., İlbaş M.

Yeni ve Yenilenebilir Enerji Kaynakları/Enerji Yönetimi Sempozyumu, Kayseri, Turkey, 04 October 2005, pp.95-102

### **LXX. Experimental and Numerical Investigations of Methane Addition on Hydrogen Combustion in a Developed Combustor**

Yılmaz İ., İlbaş M.

International Hydrogen Energy Congress and Exhibition (IHEC-2005), İstanbul, Turkey, 13 July 2005, pp.1-9

### **LXXI. Doğalgaz ve Doğalgazlı Isıtma Cihazları**

İlbaş M., Kahraman N.

1.Ulusal Konya Doğalgaz Sempozyumu, Konya, Turkey, 01 June 2005, pp.1

### **LXXII. Hidrojen-Hidrokarbon Karışımlarının Yanma Davranışının Nümerik İncelenmesi**

Yılmaz İ., İlbaş M.

8. Uluslararası Yanma Sempozyumu, Ankara, Turkey, 08 September 2004, pp.93-101

### **LXXIII. Türbülanslı Hidrojen Yanmasının Nümerik İncelenmesi**

İlbaş M., Yılmaz İ., Kayataş Demir N.

Yeni ve Yenilenebilir Enerji Kaynakları Sempozyumu, Kayseri, Turkey, 10 November 2003, pp.211-216

### **LXXIV. Türkiye Rüzgar Potansiyelinin Değerlendirilmesi**

Yılmaz İ., İlbaş M., Su Ş.

Yeni ve Yenilenebilir Enerji Kaynakları Sempozyumu, Kayseri, Turkey, 10 November 2003, pp.401-408

### **LXXV. Soba Deneyi Yapılan Kalorimetrik Odada Sayısal Analiz ile Sıcaklık Dağılımının İncelenmesi**

Akansu S. O., Kahraman N., Yılmaz İ., İlbaş M.

I. Ege Enerji Sempozyumu ve Sergisi, Denizli, Turkey, 22 May 2003, pp.138-143

### **LXXVI. Modeling of A Methane Fueled Gas Turbine Combustor**

İlbaş M., Yılmaz İ.

Kayseri 4. Havacılık Sempozyumu, Kayseri, Turkey, 10 - 12 September 2002, pp.153-157

### **LXXVII. Ön Karışımli Yanmanın CFD Modellemesi**

Yılmaz İ., İlbaş M.

Balıkesir Üniversitesi IV. Mühendislik Mimarlık Sempozyumu, Balıkesir, Turkey, 11 - 13 September 2002, pp.363-372

### **LXXVIII. The Solar Floor Heating Application And The Investigation of Its Thermal Performance**

Altıntop N., İlbaş M., Tekin Y.

The Fourth ISES-Europe Solar Congress (EuroSun2002), Bologna, Italy, 23 June 2002, pp.1-5

### **LXXIX. Metal Hidrit Yataklarda Isı ve Kütle Transferinin Nümerik Olarak İncelenmesi**

Kaplan Y., Mat M. D., İlbaş M.

Yenilenebilir Enerji Kaynakları Sempozyumu, Kayseri, Turkey, 13 July 2001, pp.1-5

### **LXXX. Güneş Enerjisi Tesisatı Kollektör ve Boru Bağlantılarında Yapılan Hataların Isıl Verime Etkisinin Deneysel İncelenmesi**

Altıntop N., Tekin Y., İlbaş M.

Yenilenebilir Enerji Kaynakları Sempozyumu, Kayseri, Turkey, 13 July 2001, pp.1-4

### **LXXXI. Egzoz Gazları Yardımıyla Çalışan Soğurmalı Soğutma Sistemini Termodinamik Analizi**

Kaplan Y., Mat M. D., İlbaş M., Aydemir G., Altınışık K.

6. Ulusal Soğutma ve İklimlendirme Tekniği Kongresi, Adana, Turkey, 14 July 2000, pp.1-5

### **LXXXII. Güneş Enerjisi ile Suyun Damıtılması**

Kahraman N., Akansu S. O., İlbaş M.

Güneş Günü Sempozyumu'99, Kayseri, Turkey, 25 - 27 June 1999, pp.1



- LXXXIII. **Influence of temperature, Air: Fuel Ratio, Geometry and Fuel Type on the NO<sub>x</sub> Emissions of small Burners**  
İlbaş M., Syred N.  
The Second Trabzon International Energy and Environment Symposium, Trabzon, Turkey, 26 July 1998, pp.123-127
- LXXXIV. **Carbon Black Production: An Alternative to Flaring of Associated Gas in Oil Wells**  
İlbaş M.  
Proceedings of the Second Trabzon International Energy and Environment Symposium, Trabzon, Turkey, 26 - 29 July 1998, pp.1
- LXXXV. **Experimental and numerical characterisation of an industrial oil-burner furnace system**  
İlbaş M., Syred N., Bowen P., O'doherty T.  
4th European conference on Industrial Furnace and Boilers (INFUB'97) , Porto, Portugal, 01 April 1997, pp.1-9
- LXXXVI. **Computer modelling of combustion and Nitrogen oxides in a small scale two-inlet cyclone combustor**  
İlbaş M., Syred N.  
First European conference on small burner technology and heating equipment, Zürich, Switzerland, 25 - 26 September 1996, pp.269-278
- LXXXVII. **A study to characterise an industrial oil burner-furnace system**  
İlbaş M., Syred N., Bowen P., O'doherty T.  
The twenty-sixth International Symposium on Combustion, Naples, Italy, 02 August 1996, pp.1-17
- LXXXVIII. **The use of CFD Modelling to predict NO<sub>x</sub> reduction from cyclone combustors**  
İlbaş M., Bowen P., O'doherty T., Syred N.  
3rd International symposium on energy- Environment Towards the Year 2000, Naples, Italy, 6 - 08 June 1996, pp.1
- LXXXIX. **CFD Modelling of a low NO<sub>x</sub> combustor fired by natural gas and gas-oil**  
İlbaş M., Bowen P., O'doherty T., Syred N.  
The Institute of Energy's 2nd International Conference on Combustion & Emissions Control, London, United Kingdom, 04 December 1995, pp.189-199
- XC. **Evaluation of the effectiveness of a No<sub>x</sub> post-processor in predicting the performance of natural gas fired cyclone and swirl combustors**  
İlbaş M., O'doherty T., Bowen P., Syred N.  
3rd International conference on combustion technologies for a clean environment, Lisbon, Portugal, 03 July 1995, pp.1-5
- XCI. **Prediction of NO<sub>x</sub> and Combustion performance of cooled cyclone combustors**  
İlbaş M., O'doherty T., Bowen P., Syred N.  
3rd European Conference on Industrial Furnaces and Boilers, (INFUB'95), Lisbon, Portugal, 18 April 1995, pp.1-8

## **Supported Projects**

İLBAŞ M., KARYEYEN S., KEKÜL O., Project Supported by Higher Education Institutions, Amonyak Gazının Yanma Performansı ve Emisyon Davranışlarının Deneysel Olarak İncelenmesi, 2021 - 2022

Arslan B., İlbaş M., Kümük B., Project Supported by Higher Education Institutions, Faz Değiştiren Malzemeler (FDM) ile Isıl Enerji Depolamanın Sayısal ve Deneysel Analizi, 2020 - 2022

İLBAŞ M., KARYEYEN S., Project Supported by Higher Education Institutions, Endüstriyel Simbiyoz Tematik Alanlı Biyogaz Reaktörü ve Yakma Sistemi Tasarımı, 2018 - 2019

KARYEYEN S., İLBAŞ M., Project Supported by Higher Education Institutions, Sentez gazlarının yanma performanslarının oksijen-yanma şartlarında deneysel olarak araştırılması, 2018 - 2019

İlbaş M., Yılmaz İ., Tangöz S., Soytürk M. A., TUBITAK Project, Sentetik Gaz Yakıtların Yanma Kararsızlığı ve Alev Geri Tepmesinin İncelenmesi, 2016 - 2018

İLBAŞ M., KARYEYEN S., Project Supported by Higher Education Institutions, BİR YAKMA SİSTEMİNDE BİYOGAZ YANMA KARAKTERİSTİKLERİNİN DENEYSEL OLARAK İNCELENMESİ, 2016 - 2017

İlbaş M., TUBITAK Project, Model Bir Yanma Sisteminde Kömür Gazlarının Yanma Performanslarının Ve Emisyon

Parametrelerinin Deneysel Olarak İncelenmesi, 2014 - 2016

İLBAŞ M., Project Supported by Higher Education Institutions, İNFRARED ISITICILI BİR KURUTUCUDA ISI VE AKIŞ ANALİZİ, 2011 - 2013

İlbaş M., Project Supported by Other Official Institutions, MOTOR PERFORMANS VE EMİSYON PARAMETRELERİNİN YAPAY SİNİR AĞLARI KULLANILARAK BELİRLENMESİ, 2009 - 2010

İlbaş M., Erturun V., Yılmaz İ., Project Supported by Higher Education Institutions, Gaz Türbin Motor Kompresör Ünitesinin Performans Değerlendirmesi İçin Test Sisteminin Kurulumu, 2008 - 2010

İlbaş M., Yılmaz İ., TUBITAK Project, Model Yakıcıda Hidrojen-metan Hibrid Yakıt Yanmasının Deneysel Araştırılması, 2005 - 2007

İlbaş M., Yılmaz İ., Project Supported by Higher Education Institutions, Geliştirilen Model Yakıcıda Hidrojen Yanmasının Deneysel Ve Sayısal İncelenmesi, 2005 - 2006

İlbaş M., Yılmaz İ., Project Supported by Higher Education Institutions, Model Bir Yakıcıda Yanma Ve Emisyon Davranışının Deneysel Ve Nümerik İncelenmesi, 2004 - 2006

## Patent

İlbaş M., Karyeyen S., Hidrojen beslemeli kömür gazı brülörü, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2015 14990 , Standard Registration, 2019

## Activities in Scientific Journals

Gazi University Journal of Science, Assistant Editor/Section Editor, 2020 - Continues

International journal of energy studies (Online), First Editor, 2020 - Continues

## Memberships / Tasks in Scientific Organizations

International Combustion Institute Turkish Section, Vice President, 2019 - Continues, Turkey

World Energy Council Turkish Section, Principal Member, 2006 - Continues, Turkey

Chamber of Mechanical Engineers Kayseri Branch, Chairman of the Board, 1998 - 2006, Turkey

## Scientific Refereeing

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, August 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Gazi University, Turkey, November 2021

FUEL, SCI Journal, October 2021

FUEL, SCI Journal, September 2021

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

FUEL, SCI Journal, July 2021

FUEL, SCI Journal, July 2021

FUEL, SCI Journal, June 2021

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

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

FUEL, SCI Journal, May 2021

FUEL, SCI Journal, May 2021

FUEL, SCI Journal, April 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Gazi University, Turkey, April 2021

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

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, January 2021  
TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, Gazi University, Turkey, January 2021  
TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, Gazi University, Turkey, January 2021  
TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, Gazi University, Turkey, January 2021  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, December 2020  
FUEL, SCI Journal, October 2020  
TUBITAK Project, 1601-Innovation in the Fields of Entrepreneurship, Gazi University, Turkey, October 2020  
FUEL, SCI Journal, August 2020  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, August 2020  
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Gazi University, Turkey, July 2020  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, June 2020  
FUEL, SCI Journal, June 2020  
FUEL, SCI Journal, May 2020  
FUEL, SCI Journal, February 2020  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, February 2020  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, January 2020  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, December 2019  
FUEL, SCI Journal, December 2019  
FUEL, SCI Journal, October 2019  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, October 2019  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, September 2019  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, August 2019  
FUEL, SCI Journal, July 2019  
FUEL, SCI Journal, July 2019  
FUEL, SCI Journal, June 2019  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, June 2019  
FUEL, SCI Journal, June 2019  
FUEL, SCI Journal, May 2019  
FUEL, SCI Journal, May 2019  
FUEL, SCI Journal, May 2019  
FUEL, SCI Journal, May 2019  
FUEL, SCI Journal, April 2019  
FUEL, SCI Journal, February 2019  
FUEL, SCI Journal, February 2019  
FUEL, SCI Journal, January 2019  
FUEL, SCI Journal, December 2018  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, November 2018  
FUEL, SCI Journal, November 2018  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, August 2018  
FUEL, SCI Journal, August 2018  
FUEL, SCI Journal, July 2018  
FUEL, SCI Journal, July 2018  
FUEL, SCI Journal, May 2018  
FUEL, SCI Journal, April 2018  
FUEL, SCI Journal, February 2018  
FUEL, SCI Journal, December 2017  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, August 2016  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, September 2014  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, June 2013

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, February 2011  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, December 2010  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, September 2010  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, May 2010

## Tasks In Event Organizations

İlbaş M., 16. International Combustion Symposium-INCOS2022, Scientific Congress, Kayseri, Turkey, Eylül 2022  
İlbaş M., 2nd International Conference on Viable Energy Trend, Scientific Congress, Helsinki, Finland, Kasım 2021  
İlbaş M., Karyeyen S., 8th International Conference on renewable fuels, combustion and fire, Scientific Congress, Ankara, Turkey, Mart 2021  
İlbaş M., 7. European conference on renewable energy systems, Scientific Congress, Madrid, Spain, Haziran 2019  
İlbaş M., 7th International conference on renewable fuels, combustion and fire (FCE'19), Scientific Congress, Antalya, Turkey, Mart 2019  
İlbaş M., 6th international conference on renewable fuels, combustion and fire (FCE'17), Scientific Congress, Nevşehir, Turkey, Mayıs 2017  
İlbaş M., 9th International Conference on Sustainable Energy and Environmental Protection (SEEP), Scientific Congress, Kayseri, Turkey, Eylül 2016

## Metrics

Publication: 210  
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Citation (Scopus): 1419  
H-Index (WoS): 19  
H-Index (Scopus): 20

## Congress and Symposium Activities

16. International Combustion Symposium-INCOS-2020, Session Moderator, Aydın, Turkey, 2022  
8th International Conference on Renewable Fuels, Combustion and Fire-FCE'21, Moderator, Ankara, Turkey, 2021  
2nd International Conference on Viable Energy Trends, Session Moderator, Helsinki, Finland, 2017

## Awards

İlbaş M., TÜBİTAK Bilimsel Yayınları Teşvik Ödülü, Tübitak, July 2021  
İlbaş M., TÜBİTAK Proje Performans Ödülü, Tübitak, November 2018

## Non Academic Experience

Gazi Üniversitesi  
Gazi Üniversitesi  
Erciyes Üniversitesi  
Bozok Üniversitesi  
Erciyes Üniversitesi  
Erciyes Üniversitesi  
Erciyes Üniversitesi