

Prof. MUSTAFA İLBAŞ

Personal Information

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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., YAKIT OLARAK AMONYAK VE KARIŞIMLARINI KULLANAN BİR GAZ TÜRBİNİ YANMA ODASININ YANMA VE EMİSYON ÖZELLİKLERİNİN ARAŞTIRILMASI, Doctorate, O.KÜMÜK(Student), 2023

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

İlbaş M., NUMERICAL INVESTIGATION OF AERODYNAMIC PERFORMANCE OF VERTICAL AXIS WIND TURBINE, Postgraduate, S.KESKİN(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 karışım 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

I. 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)

- 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.0, pp.1-21, 2024 (SCI-Expanded)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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, 2024 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **Experimental investigation of the combustion instability behaviors and NO_x 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)
- X. **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)
- XI. **Experimental analysis of hydrogen storage performance of a LaNi₅-H₂ reactor with phase change materials**
ARSLAN B., İLBAŞ M., ÇELİK S.
International Journal of Hydrogen Energy, vol.48, no.15, pp.6010-6022, 2023 (SCI-Expanded)
- XII. **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)
- XIII. **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)
- XIV. **Three-dimensional numerical simulation and experimental validation on ammonia and hydrogen fueled micro tubular solid oxide fuel cell performance**
Asmare M., İlbas M., Çimen F. M., Timurkutluk C., Onbilgin S.
International Journal of Hydrogen Energy, vol.47, no.35, pp.15865-15874, 2022 (SCI-Expanded)
- XV. **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)
- XVI. **<p>Modelling of the gas-turbine colorless distributed combustion: An application to hydrogen enriched - kerosene fuel</p>**
İLBAŞ M., Kumuk O., KARYEYEN S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.24, pp.12354-12364, 2022 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- 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. **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)
- XXI. **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)
- 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. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **Analysis of the effect of H₂O 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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **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)
- LI. **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)
- LII. **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)
- LIII. **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)
- 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. **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)
- LVI. **Laminar-buming 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)
- LVII. Investigation of thermal aspects of hydrogen storage in a LaNi₅-H-2 reactor**
Kaplan Y., Ilbas M., Mat M. D., Demiralp M., Veziroglu T. N.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.30, no.6, pp.447-458, 2006 (SCI-Expanded)
- LVIII. Hydrogen as burner fuel: modelling of hydrogen-hydrocarbon composite fuel combustion and NO_x formation in a small burner**
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IV. Yeni ve Yenilenebilir Enerji Kaynakları Sempozyumu, Kayseri, Turkey, 23 November 2007 - 24 November 2021, pp.409-414
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1.Ulusal Konya Doğalgaz Sempozyumu, Konya, Turkey, 01 June 2005, pp.1
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- LXXIV. **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
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3rd International symposium on energy- Environment Towards the Year 2000, Naples, Italy, 6 - 08 June 1996, pp.1
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The Institute of Energy's 2nd International Conference on Combustion & Emissions Control, London, United Kingdom, 04 December 1995, pp.189-199
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İlbaş M., O'doherty T., Bowen P., Syred N.
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Supported Projects

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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

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

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

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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

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TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, Gazi University, Turkey, January 2021

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TUBITAK Project, 1601-Innovation in the Fields of Entrepreneurship, Gazi University, Turkey, October 2020

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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
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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: 207

Citation (WoS): 1207

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