

## Prof. MUSTAFA ZEKİ YILMAZOĞLU

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: R-1376-2017

ScopusID: 36618358800

Yoksis Researcher ID: 55304

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Turkey 2007 - 2012

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 2003 - 2006

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1998 - 2002

### Biography

He received his bachelor's degree from Karadeniz Technical University, Department of Mechanical Engineering in 2002. Between 2002-2006, he worked as an engineer and manager in maintenance and energy issues in the textile industry. He started his academic life at Gazi University Mechanical Engineering Department in 2006. He received his master's degree in 2006 and his doctorate degree in 2012 from Gazi University, Institute of Science and Technology, Department of Mechanical Engineering. He received the title of Associate Professor in 2017. He still continues his academic life at Gazi University, Faculty of Engineering, Department of Mechanical Engineering. He has been working as an Energy Manager at Gazi University Hospital since 2014. He has more than one hundred articles and three patents published in national and international journals and symposiums. His research topics are energy management and efficiency, air conditioning systems, energy conversion systems, renewable and alternative energy systems.

During the Covid-19 process, he took active roles in the Chamber of Mechanical Engineers Air Conditioning Technical Board and the Turkish Association of HVAC Engineers Covid19 task group.

### Certificates, Courses and Trainings

Vocational Course, AEE Certification , AEE, 2021

Vocational Course, Binalarda Eğitim Etüt Proje, 1100115, 2019

Vocational Course, Binalarda Enerji Yönetimi , 1100113, 2019

Vocational Course, Sanayide Enerji Yönetimi , 1100112, 2019

Vocational Course, Sanayide Eğitim Etüt Proje , 1100114, 2019

## Dissertations

Doctorate, Gazlařtırıcı kombine çevrim santralleri ve yerli termik santrallerde performans güçlendirilmesi, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliđi (Dr), 2012

Postgraduate, Bir tekstil fabrikasında güneş destekli çift etkili bir absorpsiyonlu sođutma sisteminin uygulamasının teknik ve ekonomik analizi, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliđi (Yl) (Tezli), 2006

## Research Areas

Pressure Vessels and Piping, Pipeline Engineering and Technology, Conventional Energy Systems and Their Technology, Renewable Energy Systems, Alternative Energy Resources, Energy storage technologies, Solar energy, Hydrogen Technologies and Fuel Cells, Advanced Energy Technologies, Geothermal energy, Wind power, Heat and Mass Transfer, Fuels and Combustion, Heating, Refrigerating and Air Conditioning, Computational fluid dynamics, Thermal Systems, Thermal machines

## Academic Titles / Tasks

Associate Professor, Gazi University, Mühendislik Fakültesi, Makina Mühendisliđi, 2017 - Continues

Research Assistant, Gazi University, Mühendislik Fakültesi, Makina Mühendisliđi, 2005 - 2017

## Courses

Isı Deđiřtiricisi Tasarımı, Undergraduate, 2021 - 2022

Energy Engineering, Undergraduate, 2021 - 2022

Industrial Ventilation , Postgraduate, 2021 - 2022

TRIZ - Theory of Inventive Problem Solving, Undergraduate, 2021 - 2022

Combined Heat and Power and District Heating, Postgraduate, 2021 - 2022

Thermal and Environmental Engineering, Undergraduate, 2020 - 2021

Buhar Kazanları, Undergraduate, 2017 - 2018

Design of Thermal Systems, Undergraduate, 2017 - 2018

## Advising Theses

Yılmazođlu M. Z., Gaz türbini periyodik bakımlarının sistem performansına etkilerinin incelenmesi, Postgraduate, O.ÖZAY(Student), 2024

Yılmazođlu M. Z., Elektronik Sođutma İhtiyacı Olan Profesyonel Telsiz Cihazının İçerisine Yerleřtirilen Isı Borusunun Deneysel İncelenmesi, Postgraduate, M.ÇAM(Student), 2024

Yılmazođlu M. Z., Sera İklimlendirme Sistemlerinde Isı Pompası Kullanımının Teknik ve Ekonomik İncelemesi, Postgraduate, E.EKİNCİ(Student), 2024

Yılmazođlu M. Z., Karakoç T. H., Uçak itki ve güç sistemleri için bir gaz türbinli motor ile çeřitli yakıt hücresi tiplerinin hibritlenmesi ve modellenmesi, Doctorate, E.GÜNALTILI(Student), 2024

Sezer H. K., Yılmazođlu M. Z., Analysis of flow characteristics in intratoracic airlines using numerical methods, Postgraduate, U.AYDOĐAN(Student), 2023

Yılmazođlu M. Z., Medical waste disposal via plasma gasification method, Postgraduate, A.ALP(Student), 2023

Yılmazođlu M. Z., INVESTIGATION OF ENERGY STORAGE WITH CARNOT BATTERIES, Postgraduate, G.Hasret(Student), 2022

Yılmazođlu M. Z., ANALYSIS OF INLET AIR COOLING via REVERSE BRAYTON CYCLE in GAS TURBINES, Postgraduate, M.Bekler(Student), 2021

Yilmazoğlu M. Z., EXPERIMENTAL INVESTIGATIONS OF VALIDATION PROCESSES IN CLEANROOMS, Postgraduate, E.Doğan(Student), 2021

Yilmazoğlu M. Z., TURKEY'S ENERGY DIVERSITY IN TERMS OF INVESTIGATION OF ENERGY PROJECTION, Postgraduate, C.Amil(Student), 2021

Yilmazoğlu M. Z., Olive Oil Mill Wastewater Treatment With Parabolic Trough Collectors, Postgraduate, Ö.Binboğa(Student), 2020

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

- I. **Thermal analysis of a refrigeration system integrated with a thermoelectric couple and microchannels using TiO<sub>2</sub>-water nanofluid**  
Elibol E. A., YILMAZOĞLU M. Z., AKSOY E., AKTAŞ F.  
INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW, vol.108, 2024 (SCI-Expanded)
- II. **Experimental and numerical investigation of medical waste disposal via plasma gasification**  
Erdogan A. A., YILMAZOĞLU M. Z.  
Applied Energy, vol.353, 2024 (SCI-Expanded)
- III. **Conceptual design and optimization of a sustainable and environmentally friendly archetypal helicopter within the selection criteria and limitations**  
Gunaltılı E., Ekici S., Kalkan A., Gocmen F. E., Kale U., Yilmazoglu Z., Karakoc T. H.  
Heliyon, vol.9, no.6, 2023 (SCI-Expanded)
- IV. **Cleanroom validation processes and reducing greenhouse gas emissions through automation**  
YILMAZOĞLU M. Z., Dagdemir E. D.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.29, no.3, pp.194-206, 2023 (SCI-Expanded)
- V. **Comparison of ventilation strategies in intensive care units for airborne infection control**  
Erdogan A. A., Yilmazoğlu M. Z.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.44, no.3, pp.5829-5851, 2022 (SCI-Expanded)
- VI. **The importance of hydrogen for energy diversity of Turkey's energy production: 2030 projection**  
Amil C., YILMAZOĞLU M. Z.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.45, pp.19935-19946, 2022 (SCI-Expanded)
- VII. **Position of plasma in the phase diagram**  
Ibrahimoglu B., YILMAZOĞLU M. Z., Karakaya F., Ibrahimoglu B.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.37, no.2, pp.939-948, 2022 (SCI-Expanded)
- VIII. **Plasma gasification of the medical waste**  
Erdogan A. A., YILMAZOĞLU M. Z.  
International Journal of Hydrogen Energy, vol.46, pp.29108-29125, 2021 (SCI-Expanded)
- IX. **An exergetic investigation of hot windbox and feedwater heating systems as repowering options for thermal power plants**  
Erdogan A. A., YILMAZOĞLU M. Z.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2021 (SCI-Expanded)
- X. **Numerical modeling of a downdraft plasma coal gasifier with plasma reactions**  
Ibrahimoglu B., YILMAZOĞLU M. Z.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.5, pp.3532-3548, 2020 (SCI-Expanded)
- XI. **HEAT REMOVAL IMPROVEMENT IN AN ENCLOSURE WITH ELECTRONIC COMPONENTS FOR AIR CONDITIONING DEVICES**  
YILMAZOĞLU M. Z., Gokalp O., BIYIKOĞLU A.  
JOURNAL OF ENHANCED HEAT TRANSFER, vol.26, no.1, pp.1-14, 2019 (SCI-Expanded)
- XII. **Increasing exergy efficiency of a coal-fired thermal power plant via feedwater-heating repowering application**

- YILMAZOĞLU M. Z., Erdogan A. A.  
INTERNATIONAL JOURNAL OF EXERGY, vol.29, pp.263-281, 2019 (SCI-Expanded)
- XIII. **Increasing exergy efficiency of a coal-fired thermal power plant via feedwater-heating repowering application**  
YILMAZOĞLU M. Z., Erdogan A. A.  
International Journal of Exergy, vol.29, pp.263-281, 2019 (SCI-Expanded)
- XIV. **Disposal of olive mill wastewater with DC arc plasma method**  
Ibrahimoglu B., YILMAZOĞLU M. Z.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.217, pp.727-734, 2018 (SCI-Expanded)
- XV. **Investigation of Spiral Flow-Field Design on the Performance of a PEM Fuel Cell**  
Ibrahimoglu B., Yilmazoglu M. Z., Celenk S.  
Fuel Cells, vol.17, no.6, pp.786-793, 2017 (SCI-Expanded)
- XVI. **Numerical modeling of a downdraft plasma gasification reactor**  
Ibrahimoglu B., Cucen A., YILMAZOĞLU M. Z.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.4, pp.2583-2591, 2017 (SCI-Expanded)
- XVII. **Decreasing energy consumption and carbon footprint in a school building: a comparative study on energy audits**  
YILMAZOĞLU M. Z.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.13, no.2, pp.237-257, 2017 (SCI-Expanded)
- XVIII. **Numerical modeling of repowering of a thermal power plant boiler using plasma combustion systems**  
Ibrahimoglu B., YILMAZOĞLU M. Z., Cucen A.  
ENERGY, vol.103, pp.38-48, 2016 (SCI-Expanded)
- XIX. **Effects of the selection of heat transfer fluid and condenser type on the performance of a solar thermal power plant with technoeconomic approach**  
YILMAZOĞLU M. Z.  
ENERGY CONVERSION AND MANAGEMENT, vol.111, pp.271-278, 2016 (SCI-Expanded)
- XX. **Experimental and numerical investigation of a prototype thermoelectric heating and cooling unit**  
YILMAZOĞLU M. Z.  
ENERGY AND BUILDINGS, vol.113, pp.51-60, 2016 (SCI-Expanded)
- XXI. **Comparison of Thermal Repowering Alternatives for Thermal Power Plants**  
YILMAZOĞLU M. Z.  
ENERGY, TRANSPORTATION AND GLOBAL WARMING, pp.513-525, 2016 (SCI-Expanded)
- XXII. **Experimental and Numerical Study on Thermoelectric Generator Performance Applied to a Condensing Combi Boiler**  
BAŞKAYA Ş., KARAASLAN S., ÇALIŞIR T., YILMAZOĞLU M. Z., Yilmaz T. O.  
HEAT TRANSFER ENGINEERING, vol.36, pp.1292-1302, 2015 (SCI-Expanded)
- XXIII. **Effect of several thermoplastic canal filling techniques on surface temperature rise on roots with simulated internal resorption cavities: an infrared thermographic analysis**  
Ulusoy Ö. İ., Yilmazoglu M. Z., Gorgul G.  
INTERNATIONAL ENDODONTIC JOURNAL, vol.48, no.2, pp.171-176, 2015 (SCI-Expanded)
- XXIV. **Waste heat utilization in natural gas pipeline compression stations by an organic rankine cycle**  
YILMAZOĞLU M. Z., Amirabedin E., Shotorban B.  
ENERGY EXPLORATION & EXPLOITATION, vol.32, no.2, pp.317-328, 2014 (SCI-Expanded)
- XXV. **Effects of high temperature generator pressure on energetic and exergetic performance of double effect series flow type absorption cooling system**  
Yilmazoglu M. Z.  
Journal of the Energy Institute, vol.86, no.1, pp.32-40, 2013 (SCI-Expanded)
- XXVI. **Solar repowering of Soma-A thermal power plant**  
ZekiYilmazoglu M. Z., Durmaz A., BAKER D. K.  
Energy Conversion and Management, vol.64, pp.232-237, 2012 (SCI-Expanded)

- XXVII. **3e analysis of a solar assisted rotary type coal dryer**  
Zeki Yilmazoglu M. Z., Amirabedin E.  
International Journal of Renewable Energy Research, vol.2, no.1, pp.16-22, 2012 (SCI-Expanded)
- XXVIII. **THERMODYNAMIC ANALYSIS OF AN INTEGRATED GASIFICATION COMBINED CYCLE POWER PLANT**  
YILMAZOĞLU M. Z., Durmaz A.  
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.32, no.2, pp.43-53, 2012 (SCI-Expanded)
- XXIX. **SECOND LAW AND SENSITIVITY ANALYSIS OF A COMBINED CYCLE POWER PLANT IN TURKEY**  
YILMAZOĞLU M. Z., Amirabedin E.  
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.31, no.2, pp.41-50, 2011 (SCI-Expanded)
- XXX. **Effects of a fogging system on a combined cycle performance**  
Yilmazoglu M. Z.  
Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, vol.224, no.8, pp.1029-1038, 2010 (SCI-Expanded)
- XXXI. **Thermodynamic analysis of a single effect absorption cooling system** Tek etki•li• bi• absorpsiyonlu soğutma si•stemi•ni•n termodi•nami•k anali•zi•  
Yilmazoglu M. Z.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.25, no.2, pp.397-404, 2010 (SCI-Expanded)
- XXXII. **THE EFFECTS OF AMBIENT TEMPERATURE AND PRESSURE ON GAS TURBINE POWER PLANTS PERFORMANCE**  
YILMAZOĞLU M. Z., Rahim M. A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.25, no.3, pp.495-503, 2010 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Covid-19 Sürecinde Mevcut Hastanelerde Mekanik Sistemlerinde Alınması Gereken Önlemler Ve Tecrübeler**  
Yilmazoğlu M. Z., Demircan A.  
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.26, no.1, pp.93-106, 2023 (ESCI)
- II. **HASTANELER İÇİN DİĞER BİNALARA GÖRE FARKLI ENERJİ VERİMLİLİĞİ UYGULAMALARI**  
YILMAZOĞLU M. Z.  
Mühendis ve Makina, vol.63, no.706, pp.55-66, 2021 (Peer-Reviewed Journal)
- III. **Investigation of ventilation in a living module designed for manned mission to Mars**  
AYDOĞDU F. T., YILMAZOĞLU M. Z.  
International Journal of Sustainable Aviation, vol.6, no.4, pp.308-325, 2020 (ESCI)
- IV. **Kapalı alanlar için Covid-19 enfeksiyon riski hesaplama aracı**  
YILMAZOĞLU M. Z.  
Türk Tesisat Mühendisleri Derneği Dergisi, no.127, pp.76-79, 2020 (Peer-Reviewed Journal)
- V. **CFD analyses of the serpentine and parallel flow fields for PEM fuel cells**  
İbrahimoglu B., YILMAZOĞLU M. Z., Balıkcı B., Celenk S.  
INTERNATIONAL JOURNAL OF SUSTAINABLE AVIATION, vol.3, no.2, pp.115-129, 2017 (ESCI)
- VI. **Hastanelerde Enerji Yönetimi**  
YILMAZOĞLU M. Z.  
Türk Tesisat Mühendisleri Derneği Dergisi, no.102, pp.38-46, 2016 (Peer-Reviewed Journal)
- VII. **Merkezi iklimlendirme sistemlerinde alın hızının ömür boyu maliyete etkileri**  
ÇİFCİ M., YILMAZOĞLU M. Z.  
Tesisat Mühendisliği, vol.142, pp.15-22, 2014 (Peer-Reviewed Journal)

- VIII. **Soma A Termik Santralinin Besleme Suyu Ön Isıtma Uygulaması ile Yeniden Güçlendirilmesinin Teknoekonomik Analizi**  
YILMAZOĞLU M. Z., DURMAZ A.  
Dumlupınar Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.32, pp.79-90, 2013 (Peer-Reviewed Journal)
- IX. **Yenilenebilir Metan Üretim İve Karbon Nötr Toplum Geçiş**  
YILMAZOĞLU M. Z.  
Mühendis ve Makina, vol.54, no.643, pp.47-53, 2013 (Peer-Reviewed Journal)
- X. **Exergetic Evaluation of an Integrated Gasification Combined Cycle Power Plant Simulated by Seven Different Types of Turkish Lignite**  
AMIRABEDİN E., YILMAZOĞLU M. Z., BAŞKAYA Ş.  
Turkish Journal of Engineering and Environmental Sciences, vol.37, no.1, pp.42-56, 2013 (Peer-Reviewed Journal)
- XI. **Hot windbox repowering of Coal Fired Thermal Power Plants**  
YILMAZOĞLU M. Z., DURMAZ A.  
Turkish Journal of Engineering and Environmental Sciences, vol.37, no.1, pp.33-41, 2013 (Peer-Reviewed Journal)
- XII. **The verification of the payback time for a solar driven absorption cooling system depending on technological development and design data**  
YILMAZOĞLU M. Z., Amirabedin E.  
Gazi University Journal of Science, vol.25, no.3, pp.793-801, 2012 (Scopus)
- XIII. **The Verification Of The Payback Time For A Solar Driven Absorption Cooling System Depending On Technological Development And Design Data**  
YILMAZOĞLU M. Z., AMIRABEDİN E.  
Gazi University Journal of Science, vol.25, no.3, pp.793-801, 2012 (Scopus)
- XIV. **Bir kömür sobasının ısı performans ve veriminin deneysel incelenmesi**  
YILMAZOĞLU M. Z.  
Makine Teknolojileri Elektronik Dergisi, vol.9, no.2, pp.27-37, 2012 (Peer-Reviewed Journal)
- XV. **3E Analysis Solar Assisted Rotary Type Coal Dryer**  
YILMAZOĞLU M. Z., AMIRABEDİN E.  
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.2, no.1, pp.16-22, 2011 (Scopus)
- XVI. **Design and Exergy Analysis of a Thermal Power Plant Using Different Types of Turkish Lignite**  
AMIRABEDİN E., YILMAZOĞLU M. Z.  
International Journal of Thermodynamics, vol.14, no.3, pp.125-133, 2011 (Scopus)
- XVII. **Binalarda Isı Yalıtımının Örnek İki Binada Karşılaştırılması ve Ekonomik Analizleri**  
YILMAZOĞLU M. Z.  
Türk Tesisat Mühendisleri Derneği Dergisi, vol.71, pp.48-56, 2011 (Peer-Reviewed Journal)
- XVIII. **Bir Kazan Test Merkezinin Kurulması Devreye Alınması Belgelendirme Amaçlı Isıl ve Çevresel Performans Testleri**  
GÖÇ H., YILMAZOĞLU M. Z., DURMAZ A.  
TMMOB Makina Mühendisleri Odası Tesisat Mühendisliği Dergisi, no.119, pp.19-24, 2010 (Peer-Reviewed Journal)
- XIX. **Gaz Türbini Tahrikli Bir Doğal Gaz Basınçlandırma İstasyonunda Ortam ve Yakıt Koşullarının Sisteme Etkisinin Duyarlılık Analizi**  
YILMAZOĞLU M. Z., AMIRABEDİN E.  
TUBAV, vol.3, no.4, pp.298-305, 2010 (Peer-Reviewed Journal)
- XX. **Isı Enerjisi Depolama Yöntemleri ve Binalarda Uygulanması**  
YILMAZOĞLU M. Z.  
Politeknik Dergisi, vol.13, no.1, pp.33-42, 2010 (Peer-Reviewed Journal)
- XXI. **Gazlaştırıcı Kombine Çevrim Santrallerinde Yanma Öncesi Karbondioksit Tutma**  
YILMAZOĞLU M. Z.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.16, no.2, pp.173-179, 2010 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Application of LCA to aviation fuels**  
Günaltılı E., Ekici S., Yilmazoğlu M. Z., Karakoç T. H.  
in: Life Cycle Assessment in Aviation , Hikmet Karakoç,Selçuk Ekici,Alper Dalkıran, Editor, Springer, London/Berlin ,  
Zürich, pp.43-61, 2024
- II. **1D Modeling of an Onboard Inert Gas Generation System During Flight Conditions**  
Güngör B., Özdeş E. B., Yilmazoğlu M. Z.  
in: Novel Techniques in Maintenance, Repair, and Overhaul, T. Hikmet Karakoc,Ivan A. Kostić,Aleksandar  
Grbović,Jelena Svorcan,Alper Dalkıran,Ali Haydar Ercan,Ognjen M. Peković, Editor, Springer, London/Berlin ,  
Zürich, pp.311-317, 2023
- III. **Modelling of Bird Strike for the Pilot Cabin Window in Side-By-Side-Seated Aircraft**  
Yilmazoğlu M. Z., Lüleci M. B.  
in: Solutions for Maintenance Repair and Overhaul, T. Hikmet Karakoc,Jozsef Rohács,Dániel Rohács,Selçuk  
Ekici,Alper Dalkıran,Utku Kale, Editor, Springer, London/Berlin , Zürich, pp.299-313, 2023
- IV. **Exergy Analysis of an Air Cycle Machine for Different Flight Conditions**  
YILMAZOĞLU M. Z., Gülseven C.  
in: New Frontiers in Sustainable Aviation, T. Hikmet Karakoc, Can Ozgur Colpan, Alper Dalkıran, Editor, Springer,  
pp.71-100, 2022
- V. **Testing, Adjusting and Balancing Procedures in HVACR Systems**  
YILMAZOĞLU M. Z.  
Hanlar Matbaacılık, İstanbul, 2021
- VI. **EN 378 Standardının Tanıtılması ve Seçim Kriterlerine Etkileri**  
YILMAZOĞLU M. Z.  
in: HVAC Sistem Seçimi, Murat Çakan, Editor, Doğa Yayıncılık, İstanbul, pp.7-24, 2020
- VII. **Bölgesel Soğutma Kılavuzu**  
YILMAZOĞLU M. Z.  
Doğa Yayıncılık, 2016
- VIII. **Bölgesel Isıtma Kılavuzu**  
YILMAZOĞLU M. Z.  
Doğa Yayıncılık, 2016
- IX. **Comparison of Repowering Alternatives**  
Yilmazoğlu M. Z.  
in: Energy, Transportation and Global Warming, Panagiotis Grammelis, Editor, Springer, London/Berlin , Basel,  
pp.513-525, 2016
- X. **Numerical Analysis of Active Control of Flow on a DBD Plasma Actuator Integrated Airfoil**  
İBRAHİMOĞLU B., YILMAZOĞLU M. Z., Cücen A.  
in: Sustainable Aviation Energy and Environmental Issues, Karakoç Hikmet T., Özerdem Barış M., Söğüt Ziya M.,  
Çolpan Özgür C., Altuntaş Önder, Açıkkalp Emin, Editor, Springer, pp.363-374, 2016

## Refereed Congress / Symposium Publications in Proceedings

- I. **Determination of Energy Efficiency Score of A Data Centre: Transition to Green Data Center**  
Yılmaz H., Yilmazoğlu M. Z.  
12th Global Conference on Global Warming, Şanlıurfa, Turkey, 16 - 19 May 2024, pp.85-87
- II. **Projections for Türkiye's Net Zero Carbon Target by 2053**  
Şengül C., Yilmazoğlu M. Z.  
14th International Exergy, Energy and Environment Symposium (IEEES-14), İstanbul, Turkey, 24 - 27 December  
2023, pp.303-306
- III. **Investigation of the Effects of Heat Pump Applications on Cultural Heritage Buildings: A Case Study**

**on Gazi University Rectorate Building**

Ünal N. D., Yilmazoğlu M. Z.

14th INTERNATIONAL EXERGY, ENERGY, AND ENVIRONMENT SYMPOSIUM, İstanbul, Turkey, 23 - 27 December 2023, pp.307-309

- IV. **Experimental investigation of indoor air quality in an open office environment**  
Erdoğan A. A., Yilmazoğlu M. Z.  
43rd AIVC Ventilation, IEQ and health in sustainable buildings, Kobenhavn, Denmark, 4 - 05 October 2023, pp.346-355
- V. **Numerical Investigation of Ice Accumulation on Lift and Drag Coefficients with Changing Angle of Attacks for NACA 4412**  
Görener S., Ansari A. A., Yilmazoğlu M. Z.  
Uluslararası Katılımlı 24. Isı Bilimi ve Tekniği Kongresi , Ankara, Turkey, 6 - 08 September 2023, pp.120-125
- VI. **Isı borusu Tasarımında Etken Parametreler ve Eklemeli İmalata Uygunluğunun İrdelenmesi**  
Karaca S., Yilmazoğlu M. Z.  
Uluslararası Katılımlı 24. Isı Bilimi ve Tekniği Kongresi, Ankara, Turkey, 6 - 08 September 2023, pp.140-145
- VII. **Binalarda Isı Depolama Duvarının Isıtma Soğutma Performansına olan etkisinin İncelenmesi**  
Yilmazoğlu M. Z., Bekler C., Ayçam İ., İmancı K.  
Uluslararası Katılımlı 24. Isı Bilimi ve Tekniği Kongresi , Ankara, Turkey, 6 - 08 September 2023, pp.20-25
- VIII. **Gas Turbine and Fuel Cell Hybrid Systems**  
Günaltılı E., Ekici S., Yilmazoğlu M. Z., Karakoç T. H.  
Emerging Trends in Electric Aviation. ISEAS 2022. Sustainable Aviation, Maribor, Slovenia, 19 - 21 July 2022, pp.1-7
- IX. **Precautions to be taken in air conditioning and ventilation installations in hospitals in the fight against the pandemic**  
Peker T., Bilge M., Yilmazoğlu M. Z.  
15. Ulusal Tesisat Mühendisliği Kongresi , İzmir, Turkey, 26 - 29 April 2023, pp.11-17
- X. **HVAC systems in healthcare facilities**  
Yilmazoğlu M. Z.  
15. Ulusal Tesisat Mühendisliği Kongresi , İzmir, Turkey, 26 April - 29 October 2023, pp.111-117
- XI. **Analysis of the application of ventilative cooling in different regions of Turkey**  
Birtürk A., YILMAZOĞLU M. Z.  
CLIMA 2022 REHVA 14th HVAC World Congress, 22 May 2022
- XII. **Numerical analysis of a thermal energy storage tank charged with a flat type solar air collector**  
YILMAZ G. H., YILMAZOĞLU M. Z.  
CLIMA 2022 14th HVAC World Congress, 22 May 2022
- XIII. **Hastane havalandırma sistemleri: nerede yanlış yapıyoruz?**  
YILMAZOĞLU M. Z.  
12. Uluslararası Sterilizasyon Dezenfeksiyon Kongresi, 09 December 2021
- XIV. **Numerical Investigation Of The Performance Of Local Exhaust Strategy In Intensive Care Units**  
Yilmazoğlu M. Z., Erdogan A. A.  
6th Int. Conf. on Smart and Sustainable Technologies, Split, Croatia, 8 - 11 September 2021, pp.1-11
- XV. **TERS BRAYTON ÇEVİRİMİ İLE GAZ TÜRBİNİ KOMPRESÖRÜ GİRİŞ HAVASININ SOĞUTULMASININ ANALİZİ**  
Bekler M., YILMAZOĞLU M. Z.  
Uluslararası Katılımlı 23. Isı Bilimi ve Tekniği Kongresi, 08 September 2021
- XVI. **Cleanroom Validation Processes And Reducing Greenhouse Gas Emissions Through Automation**  
Yilmazoğlu M. Z., Dagdemir E. D.  
9th Global Conference on Global Warming, Zagreb, Croatia, 1 - 04 August 2021, pp.103-107
- XVII. **Decreasing Co2 Emissions For Hot Water Production In Hospitals In Ankara With Solar Thermal Collectors**  
Gundogdu E. Y., Yilmazoğlu M. Z.  
9th Global Conference on Global Warming, Zagreb, Croatia, 1 - 04 August 2021, pp.352-357



- XVIII. Technoeconomic Analysis Of Trigeration Systems For Data Centers**  
Yilmazoğlu M. Z., Hatiboglu R.  
9th Global Conference on Global Warming, Zagreb, Croatia, 1 - 04 August 2021, pp.244-249
- XIX. Covid-19 Infection Risk Calculator and Examples for Some Closed Spaces**  
Yilmazoğlu M. Z.  
10th Mediterranean Congress of Climatization , Lisbon, Portugal, 11 - 12 May 2021, pp.1-11
- XX. Modeling Of Bird Strike For The Pilot Cabin Window In Side-by-side Seated Aircraft**  
Lüleci B., Yilmazoğlu M. Z.  
International Symposium on Aircraft Technology, MRO and Operations, Budapest, Hungary, 28 - 30 May 2021, pp.1-11
- XXI. The importance of hydrogen in terms of energy diversity for Turkey's energy projection**  
Amil C., Yilmazoğlu M. Z.  
5th International Hydrogen Technologies Congress, Niğde, Turkey, 26 - 28 May 2021, pp.1-11
- XXII. COVID 19 RISK CALCULATION TOOL**  
Yilmazoğlu M. Z.  
III. Uluslararası Şehir Çevre ve Sağlık Kongresi, İstanbul, Turkey, 16 - 20 April 2021, pp.128
- XXIII. Exergy Analysis Of Hot-Windbox Repowering Option For A Coal-Fired Thermal Power Plant**  
Yilmazoğlu M. Z., Erdogan A. A.  
SpliTech2020, Split, Croatia, 24 - 27 September 2020, pp.1-11
- XXIV. Exergy Analysis Of Hot-Windbox Repowering Option For A Coal-Fired Thermal Power Plant**  
YILMAZOĞLU M. Z., Erdogan A. A.  
5th International Conference on Smart and Sustainable Technologies 2020 Program, Croatia, 24 September 2020
- XXV. Energy Efficient TIER IV Data Center Design and CFD Analysis of a Rack Layout**  
Yilmazoğlu M. Z.  
Virtual 14th International TTMD HVAC-R Technologies Symposium, Ankara, Turkey, 1 - 04 June 2020, pp.1-11
- XXVI. 1D MODELING OF OLIVE OIL MILL WASTEWATER EVAPORATION WITH A PARABOLIC TROUGH SOLAR COLLECTOR**  
Yilmazoğlu M. Z.  
ECRES 2020, İstanbul, Turkey, 24 - 27 August 2020, pp.1-11
- XXVII. GAZLARIN TERMİK AYRIŞMA VE İYONLAŞMA NOKTASININ GRAFİK YÖNTEMİYLE BELİRLENMESİ**  
İBRAHİMOĞLU B., YILMAZOĞLU M. Z., TEKELİ G., Erdogan A. A.  
22nd Congress on Thermal Science and Technology, 11 - 14 September 2019
- XXVIII. INVESTIGATION of VENTILATION in a LIVING MODULE DESIGNED for MANNED MISSION to MARS**  
AYDOĞDU F. T., YILMAZOĞLU M. Z.  
22nd Congress on Thermal Science and Technology, 11 - 14 September 2019
- XXIX. Particle Analysis Comparison of a Distributed Supply with Laminar Flow Unit (LFU) and Conventional LFU in an Operating Room**  
Erdogan A. A., YILMAZOĞLU M. Z.  
22nd Congress on Thermal Science and Technology, 11 - 14 September 2019
- XXX. Ventilation Performance Improvement in a Container with an Extraction Free Cooling System**  
GÜLSEVEN C., YILMAZOĞLU M. Z.  
CLIMA 2019, Bükreş, Romania, 26 - 29 May 2019, vol.111, pp.1031
- XXXI. Heating Water and Tap Water Production with an Air-to-Water Heat Pump by Using the Waste Heat of an Oil-Free Air Compressor**  
GÜLSEVEN C., YILMAZOĞLU M. Z.  
CLIMA 2019, 26 - 29 May 2019, vol.111, pp.6034
- XXXII. Assessing the reliability of Turkish building energy performance tool (BEP-TR2) by case tests**  
YILMAZOĞLU M. Z., ULUKAVAK HARPUTLUGİL G., ÜNLÜ G.  
CLIMA 2019, 26 - 29 May 2019, vol.111, pp.4052
- XXXIII. Experimental and numerical investigation of surface temperature increment on a tooth in endodontic root canal filling application**

YILMAZOĞLU M. Z., ATASOY ULUSOY Ö. İ.

22. Isı Bilimi ve Tekniği Kongresi, 11 - 14 September 2019

XXXIV. **The effects of equivalence ratio on a downdraft plasma coal gasifier**

İBRAHİMOĞLU B., YILMAZOĞLU M. Z.

7th Global Conference on Global Warming, 24 - 28 June 2018

XXXV. **Can feedwater repowering increase the exergetic efficiency of a coal fired thermal power plant?**

Erdogan A. A., YILMAZOĞLU M. Z.

7th Global conference on Global Warming, 24 - 28 June 2018

XXXVI. **Site selection for cogeneration systems in urban areas and modeling of dispersion of emissions among buildings**

Çelenk Ş., YILMAZOĞLU M. Z.

XIIIth International HVACRSanitary Technology Symposium, 12 - 14 April 2018

XXXVII. **Energy Recovery from Waste Tires with Plasma Method**

Ibrahimoglu B., Demircan C. A., Kizisar S. E., YILMAZOĞLU M. Z., Turkes N.

2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam, Turkey, 19 - 21 October 2018, pp.615-619

XXXVIII. **EN 378 standartının sistem seçimine etkileri**

YILMAZOĞLU M. Z.

İklim 2017, Turkey, 15 - 16 December 2017

XXXIX. **A Newborn Incubator with a Laminar Flow Unit**

YILMAZOĞLU M. Z., BIYIKOĞLU A.

ASHRAE Winter Conference, Nevada, United States Of America, 28 January - 01 February 2017

XL. **EN 378 Standartının Tanıtılması ve Seçim Kriterlerinde Etkileri**

YILMAZOĞLU M. Z.

TTMD HVAC Sistem Seçimi, Turkey, 27 - 30 October 2016

XLI. **Kojenerasyon sistemleri için yer seçimi ve binalar arasında emisyon dağılımının modellenmesi**

YILMAZOĞLU M. Z., Çelenk Ş.

Ulusal Isı Bilimi ve Tekniği Sempozyumu, Turkey, 13 - 16 September 2016

XLII. **COMPARISON OF PARALLEL AND SERPENTINE FLOW FIELD USING CFD BASED MODELLING**

İBRAHİMOĞLU B., YILMAZOĞLU M. Z., BALIKÇI B., CÜCEN A., ÇELENK Ş.

International Symposium on Sustainable Aviation, 29 May - 01 June 2016

XLIII. **Energy Management in Hospitals**

YILMAZOĞLU M. Z.

XII. International HVAC+R&SANITARY TECHNOLOGY SYMPOSIUM, Istanbul, 31 March - 02 April 2016

XLIV. **Numerical Investigation of a Passive Chilled Beam System and Thermal Comfort Conditions**

YILMAZOĞLU M. Z.

Climamed 2015 Mediterranean Congress of HVAC, Juan-Les-Pins, 9 - 11 September 2015

XLV. **Pasif Soğuk Kirişlerin Ofislerde Kullanılabilirliğinin Deneysel ve Sayısal İncelenmesi**

YILMAZOĞLU M. Z.

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

XLVI. **1D modeling of a single effect absorption cooling system**

YILMAZOĞLU M. Z.

International Symposium on Sustainable Aviation, Istanbul, 31 May - 03 June 2015

XLVII. **Comparison of Thermal Repowering Alternatives for Thermal Power Plants**

YILMAZOĞLU M. Z.

Global Conference on Global Warming, Athens, 24 - 27 May 2015

XLVIII. **Outdoor Electricity Generation Device**

YILMAZOĞLU M. Z.

7th International Ege Energy Symposium&Exhibition, Uşak, 18 - 20 June 2014

XLIX. **Bir Diş Hastanesinde Ön Enerji Etüdü ve Yıllık Enerji Tüketimi için Bir Belirteç**

YILMAZOĞLU M. Z.

XI. Yapıda Tesisat Teknolojisi Sempozyumu, İstanbul, 8 - 10 May 2014

- L. **Bir Kombi Isı Hücresinin Isı Transferi ve Akış Karakteristiğinin Sayısal Olarak İncelenmesi**  
KARAASLAN S., ÇALIŞIR T., YILMAZOĞLU M. Z., Yılmaz T., BAŞKAYA Ş.  
19. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 9 - 12 September 2013, pp.728-733
- LII. **Bir Kombi Isı Hücresinin Isı Transferi ve Akış Karakteristiğinin Sayısal Olarak İncelenmesi**  
Karaaslan S., Çalışır T., Yılmazoğlu M. Z., Başkaya Ş., Yılmaz T. O.  
19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Samsun, Turkey, 9 - 12 September 2013
- LII. **Experimental Study on Thermoelectric Generator Performance Applied to a Combi Boiler**  
Yılmazoğlu M. Z., Karaaslan S., Çalışır T., Başkaya Ş., Yılmaz T. O.  
13th UK Heat Transfer Conference, London, London, United Kingdom, 2 - 03 September 2013
- LIII. **Investigation of Thermoelectric Generator Locations in a Heat Cell**  
Karaaslan S., Çalışır T., Yılmazoğlu M. Z., Yılmaz T. O., Başkaya Ş.  
The 6th PSU NSU International Conference on Engineering and Technology (ICET 2013), NoviSad, Novi-Sad, Serbia, 15 - 17 May 2013
- LIV. **Direct and Indirect Co combustion of Lignite and Biomass**  
YILMAZOĞLU M. Z., ÇALIŞIR T., AMIRABEDIN E.  
The 6th PSU NSU International Conference on Engineering and Technology (ICET 2013), NoviSad, 15 - 17 May 2013
- LV. **Hava Kaynaklı Bir Isı Pompasının Deneysel Termodinamik Analizi**  
ÇİFCİ M., YILMAZOĞLU M. Z.  
11. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Turkey, 17 - 20 April 2013
- LVI. **Soma A Termik Santralının Paralel Yeniden Güçlendirilmesi**  
YILMAZOĞLU M. Z., DURMAZ A.  
18. Ulusal Isı Bilimi ve Tekniği Kongresi, Zonguldak, Turkey, 7 - 10 September 2011
- LVII. **Kentsel Katı Atıkların Gazlaştırılması ile Isı Buhar ve Elektrik Üretiminin İncelenmesi**  
YILMAZOĞLU M. Z., AMIRABEDIN E., KAYACAN İ.  
18. Ulusal Isı Bilimi ve Tekniği Kongresi, Zonguldak, Turkey, 7 - 10 September 2011
- LVIII. **Bir Direkt Evaporatif Soğutma Sisteminin Deneysel Ekonomik ve Çevresel İncelemesi**  
ÇALIŞIR T., ALPTEKİN M., YILMAZOĞLU M. Z.  
Ulusal İklimlendirme Kongresi İKLİM 2011 Antalya, Turkey, 18 - 20 November 2011
- LIX. **Utilization of a Parabolic TroughSolar System in a Direct Type Rotary Coal Dryer**  
AMIRABEDIN E., YILMAZOĞLU M. Z.  
Global Conference on Global Warming 2011 Lisbon Portugal, 11 - 14 July 2011
- LX. **Technical and Environmental Investigation of Co firing of Lignite and Biomass in Can Circulating Fluidized Bed Power Plant**  
AMIRABEDIN E., YILMAZOĞLU M. Z.  
19th European Biomass Conference and Exhibition, Berlin, 6 - 10 June 2011, pp.1328-1333
- LXI. **Utilization of the Exhaust Gas of a Gas Pipeline Compression Station to Generate Electricity**  
AMIRABEDIN E., YILMAZOĞLU M. Z., DURMAZ A.  
Linnaeus ECO-TECH'10, Kalmar, 22 - 24 November 2010
- LXII. **Analysis of Heat Recovery Steam Generators In Combined Cycle Power Plants**  
RAHİM M., AMIRABEDIN E., YILMAZOĞLU M. Z., DURMAZ A.  
Nuclear and Renewable Energy Resources 2, Ankara, 4 - 07 July 2010
- LXIII. **Integrated Gasification Combined Cycle and Repowering of Old Power Plants**  
YILMAZOĞLU M. Z., DURMAZ A.  
Nuclear and Renewable Energy Resources 2, Ankara, 4 - 07 July 2010
- LXIV. **Comparison of Absorption Cooling and Fogging Inlet Air Cooling Systems in Gas Turbine Power Plants**  
YILMAZOĞLU M. Z., RAHİM M.  
The Fifth International Ege Energy Symposium and Exhibition (IEESE-5), Denizli, 27 - 30 June 2010
- LXV. **A Power Plant Simulation Using Absorption Chillers for District Cooling**

- YILMAZOĞLU M. Z.  
Clima 2010 10th REHVA World Congress, Antalya, 9 - 12 May 2010
- LXVI. **Experimental Investigation of Thermal Comfort Inside an Office Room**  
ÇALIŞKAN S., YILMAZOĞLU M. Z., ATILGAN A. İ., BAŞKAYA Ş.  
Clima 2010 10th REHVA World Congress, Antalya, 9 - 12 May 2010
- LXVII. **Kobilerde Enerji Verimliliğinin Arttırılması**  
YILMAZOĞLU M. Z.  
Nuclear Renewable Energy sources Conference with International Participation, Ankara, Turkey, 28 - 29 September 2009
- LXVIII. **Yanma Öncesi Karbondioksiti Tutma Sistemi ve Alışılmış Bir Termik Santralin Enerji Ekonomisi ve CO2 Salınımı Yönünden Karşılaştırılması**  
YILMAZOĞLU M. Z., DURMAZ A.  
17. Ulusal Isı Bilimi ve Tekniği Kongresi, Sivas, Turkey, 24 - 27 June 2009
- LXIX. **Design and technical economical and environmental analyses of a hydrogen fired multi-objective cogeneration system**  
Durmaz A., YILMAZOĞLU M. Z., Paşaoğlu A.  
13th International Conference on Emerging Nuclear Energy Systems 2007, ICENES 2007, İstanbul, Turkey, 3 - 08 June 2007, vol.2, pp.859-883
- LXX. **Sıfır Emisyonlu Termik Santral Geliştirilmesinde Mühendislik Yaklaşımları ve İrdemeler**  
DURMAZ A., YILMAZOĞLU M. Z.  
ULIBTK'07 16. Ulusal Isı Bilimi ve Tekniği Kongresi, Kayseri, Turkey, 30 May - 02 June 2007
- LXXI. **Kompresör Giriş Havaasının Soğutulmasıyla Kombine Çevrim Santralinin Performansının Arttırılması**  
RAHİM M., YILMAZOĞLU M. Z., ERBAŞ O., DURMAZ A.  
ULIBTK'07 16. Ulusal Isı Bilimi ve Tekniği Kongresi, Kayseri, Turkey, 30 May - 02 June 2007
- LXXII. **Technical Economical and Environmental Analyses of a Hydrogen Fired Multi Objective Cogeneration System**  
DURMAZ A., YILMAZOĞLU M. Z., PAŞAOĞLU A.  
13th International Conference on Emerging Nuclear Energy Systems, İstanbul, 3 - 08 June 2007
- LXXIII. **Fabrikalarda Enerji Ekonomisi için Absorpsiyonlu Sistemlerin ve Parabolik Oluk Tip Güneş Kollektörlerinin Kullanılması**  
YILMAZOĞLU M. Z., DURMAZ A.  
9. International Combustion Symposium, Kırıkkale, 16 - 17 November 2006, pp.393-401
- LXXIV. **The Evaluation of the Air Pollution Problem Originating from Combustion During the EU Adaptation Process**  
ERBAŞ O., YILMAZOĞLU M. Z., TOPAL H., DURMAZ A.  
9. International Combustion Symposium, Kırıkkale, 16 - 17 November 2006, pp.505-514

## Supported Projects

- Ayçam İ., Bekler C., Soyluk A., Yilmazoğlu M. Z., TUBITAK Project, Investigation of Thermal Performance of Transparent Insulated Latent Heat Storage Wall, 2022 - 2024
- YILMAZOĞLU M. Z., Erdoğan A. A., Project Supported by Higher Education Institutions, Tıbbi atıkların plazma gazlaştırma yöntemi ile bertarafı, 2021 - 2022
- YILMAZOĞLU M. Z., LÜLECİ M. B., SALMAN V., Project Supported by Higher Education Institutions, Şeffaf Ahşap Üretimi ve Yapı Elemanı Olarak Kullanılabilirliğinin Araştırılması, 2021 - 2022
- Morvaj Z., Yilmazoğlu M. Z., AB IPA Project, Technical Assistance for Renewable Energy and Energy Efficiency Support for Municipalities and Universities, 2019 - 2022
- Ibrahimoğlu B., Yilmazoğlu M. Z., TUBITAK Project, SOĞUK ATMOSFERİK PLAZMANIN COVID-19 ÜZERİNDEKİ ETKİLERİNİN İNCELENMESİ VE PLAZMA STERİLİZASYON KİTİNİN GELİŞTİRİLMESİ, 2020 - 2021
- Yilmazoğlu M. Z., Husaunndee A., AB IPA Project, Technical Assistance for improving energy Efficiency in buildings, 2016

- 2017

YILMAZOĞLU M. Z., TUBITAK Project, SOMA TERMİK SANTRALİ İÇİN PLAZMA KÖMÜR YAKMA SİSTEMİ GELİŞTİRİLMESİ, 2013 - 2017

YILMAZOĞLU M. Z., BAŞKAYA Ş., Industrial Thesis Project, Kendinden Beslemeli Isıtma Uygulaması için Termoelektrik Jeneratörler Vasıtasıyla Isıl Hücre Dizaynı, 2012 - 2014

Çalışır T., Yılmazoğlu M. Z., Başkaya Ş., Project Supported by Higher Education Institutions, Termoelektrik Jeneratörlerin Karakteristiklerinin Deneysel Olarak Tespit Edilmesi, 2012 - 2013

YILMAZOĞLU M. Z., Project Supported by Higher Education Institutions, Endüstriyel Tip Fırınlarda Isı Geri Kazanımının Deneysel ve Sayısal İncelenmesi, 2012 - 2012

YILMAZOĞLU M. Z., Project Supported by Higher Education Institutions, Sanayi ve Binalarda Enerji Verimliliğinde Enerji Verimliliği Çalışmaları için Laboratuvar Altyapısının Güçlendirilmesi, 2010 - 2012

YILMAZOĞLU M. Z., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Linyit Kullanımının Arttırılması Amaçlı Yanma Emisyon Kontrolü Enerji Verimliliği vb ArGe Çalışmaları için Gazi Üniversitesi GEÇER Araştırma Merkezi Laboratuvar Alt Yapısının Yenilenmesi ve Geliştirilmesi, 2008 - 2011

YILMAZOĞLU M. Z., Project Supported by Higher Education Institutions, Kompresör Giriş Havaasının Yağmurlandırma Yöntemi ile Nemlendirilmesinin Kombine Çevrim Santrali Performansına Etkisinin Araştırılması, 2006 - 2008

## Patent

YILMAZOĞLU M. Z., Isı borulu termoelektrik jeneratörlerin dış mekan uygulamalarında kullanılması, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, 2017

YILMAZOĞLU M. Z., Fotovoltaik Panel Destekli termoelektrik jeneratörlü merkezi iklimlendirme sistemi, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, 2017

## Student Project

R & D Project, Numerical Investigation of Ice Accumulation on Lift and Drag coefficients with changing Angle of Attacks for NACA 4412, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey, 2022 - 2023

R & D Project, Examining the effects of heat storage walls on heating and cooling performance in buildings, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey, 2022 - 2023

R & D Project, Manufacturing of 3 mm diameter sintered heat pipes and performing thermal performance tests, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey, 2022 - 2023

R & D Project, Transparent Wood Production for Energy Conservation and Insulation Purpose, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey, 2022 - 2023

R & D Project, Ozon Gazının Jet Türbinli Motorlarda Yanma Verimliliğine Etkisi ve Ozonu Absorbe Edecek Malzemelerin Araştırılması, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey, 2021 - 2022

## Activities in Scientific Journals

ISI BILIMI VE TEKNIGI DERGISI/ JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, First Editor, 2023 - Continues

Türk Tesisat Mühendisleri Derneği İstma Soğutma Havalandırma Klima Yangın ve Sıhhi Tesisat Dergisi, First Editor, 2013 - Continues

## Memberships / Tasks in Scientific Organizations

Turkish Society of Thermal Sciences and Technology , Secretary General, 2022 - Continues, Turkey

## Scientific Refereeing

SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, SCI Journal, July 2023  
JOURNAL OF CLEANER PRODUCTION, SCI Journal, May 2023  
INTERNATIONAL JOURNAL OF REFRIGERATION, SCI Journal, April 2023  
ENERGY CONVERSION AND MANAGEMENT, SCI Journal, March 2023  
ENERGY AND BUILDINGS, SCI Journal, February 2023  
ENERGY JOURNAL, SCI Journal, January 2023  
ENERGY JOURNAL, Journal Indexed in SCI-E, December 2022  
INTERNATIONAL JOURNAL OF REFRIGERATION, SCI Journal, November 2022  
INTERNATIONAL JOURNAL OF REFRIGERATION, SCI Journal, November 2022  
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JOURNAL OF CLEANER PRODUCTION, SCI Journal, August 2022  
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INTERNATIONAL JOURNAL OF REFRIGERATION, SCI Journal, April 2022  
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ENERGY JOURNAL, Journal Indexed in SCI-E, March 2022  
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ENERGY JOURNAL, Journal Indexed in SCI-E, March 2022  
ENERGY JOURNAL, Journal Indexed in SCI-E, February 2022  
INTERNATIONAL JOURNAL OF REFRIGERATION, SCI Journal, January 2022  
JOURNAL OF CLEANER PRODUCTION, SCI Journal, January 2022  
FUEL, SCI Journal, January 2022  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, June 2021  
INTERNATIONAL JOURNAL OF GREEN ENERGY, SCI Journal, May 2021  
JOURNAL OF CLEANER PRODUCTION, SCI Journal, April 2021  
JOURNAL OF THE ENERGY INSTITUTE, SCI Journal, April 2021  
ALEXANDRIA ENGINEERING JOURNAL, SCI Journal, March 2021  
ENERGY AND BUILDINGS, SCI Journal, February 2021  
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, SCI Journal, February 2021  
ENERGY CONVERSION AND MANAGEMENT, SCI Journal, January 2021  
ENERGY, SCI Journal, January 2021  
ENERGY EFFICIENCY, SCI Journal, January 2021  
APPLIED THERMAL ENGINEERING, SCI Journal, January 2021  
ENERGY AND BUILDINGS, SCI Journal, August 2020  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, July 2020  
ENERGY CONVERSION AND MANAGEMENT, SCI Journal, June 2020  
Energy, SCI Journal, February 2020

## Metrics

Publication: 138

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H-Index (WoS): 11

H-Index (Scopus): 12

## **Congress and Symposium Activities**

24th Congress on Thermal Science and Technology with International Participation , Session Moderator, Ankara, Turkey, 2023

International Symposium on Energy Management and Sustainability, Working Group, İstanbul, Turkey, 2022

## **Invited Talks**

Ventilation Measures in Workplaces under COVID-19, Seminar, Türk Tabipleri Birliđi , Turkey, December 2020

Ventilation in Enclosed Spaces and Covid-19, Seminar, Türk Toraks Derneđi , Turkey, June 2020

## **Awards**

Yilmazođlu M. Z., ISIB HVAC Sector Design and Application Competition , Ministry Of Trade, February 2016

Yilmazođlu M. Z., ISIB HVAC Sector Design and Application Competition , Ministry Of Trade, February 2014

Yilmazođlu M. Z., Optimum AHU Design , Systemair Hsk, May 2011

## **Non Academic Experience**

ÜNTEŞ A.Ş.

GAZİ ÜNİVERSİTESİ HASTANESİ

ANADOLU PLAZMA TEKNOLOJİ MERKEZİ

TÜRK TESİSAT MÜHENDİSLERİ DERNEĐİ

MARESSİ DENİM