

## Assoc. Prof. MUSTAFA YILMAZ

### Personal Information

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**Address:** Marmara Üniversitesi Mühendislik Fakültesi Makina Mühendisliği Bölümü Recep Tayyip Erdoğan Külliyesi – M5 Binası Aydınevler Mah. Uyanık Cad., İdealtepe Yolu, No:15 34840 Maltepe/İstanbul



### International Researcher IDs

ScholarID: 2wLNxZgAAAAJ

ORCID: 0000-0001-6018-2211

Publons / Web Of Science ResearcherID: A-1977-2017

ScopusID: 57189057653

Yoksis Researcher ID: 207382

### Education Information

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Makine Mühendisliği (YI) (Tezli), Turkey 2002 - 2009

Postgraduate, Sakarya University, Institute Of Science, Makine Mühendisliği (YI) (Tezli), Turkey 1995 - 1997

Undergraduate, Gaziantep University, Faculty Of Engineering, Department Of Mechanical Engineering (English), Turkey 1989 - 1994

### Biography

1971'de İstanbul'da doğdu. Gaziantep Üniversitesi Mühendislik Fakültesi Makina Mühendisliği Bölümünü bitirdi. Yüksek Lisansını Sakarya Üniversitesinde yenilenebilir enerji , Doktorasını Marmara Üniversitesi'nde içten yanmalı motorlar alanında yaptı. 1997 yılında Marmara Üniversitesi Mühendislik Fakültesi'nde Araştırma Görevlisi olarak çalışmaya başladı. 2009'da Doktor, 2017'te Doçent oldu.

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Effect of CDC Concept on the Design parameters of a Heavy Duty PPCI Engine by use of Multidimensional Modeling, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Makine Mühendisliği (YI) (Tezli), 2009

Postgraduate, Rüzgar Enerjisi Uygulamaları ve Savonius Rüzgar Türbini, Sakarya Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 1997

## Research Areas

Energy, Thermodynamics, Heat and Mass Transfer, Fuels and Combustion, Heating, Refrigerating and Air Conditioning, Internal Combustion Engines, Computational fluid dynamics

## Academic Titles / Tasks

Associate Professor, Marmara University, Faculty of Engineering, Mechanical Engineering, 2017 - Continues  
Assistant Professor, Marmara University, Faculty of Engineering, Mechanical Engineering, 2009 - 2017  
Research Assistant, Marmara University, Faculty of Engineering, Mechanical Engineering, 1997 - 2009

## Academic and Administrative Experience

Assistant Director of the Institute, Marmara University, Institute For Graduate Studies İn Pure And Applied Sciences, Department Of Mechanical Engineering (Eng), 2020 - Continues  
Enstitü Yönetim Kurulu Üyesi, Marmara University, Institute For Graduate Studies İn Pure And Applied Sciences, 2020 - Continues  
Bölüm Tanıtım ve Mezunlarla İlişkiler Komisyonu Başkanı, Marmara University, Faculty of Engineering, Mechanical Engineering, 2009 - Continues  
İş Sağlığı ve Güvenliği Sertifika Programı Sorumlu Müdür, Marmara University, Rectorate, 2013 - 2024  
Marmara University, Faculty of Engineering, Mechanical Engineering, 2015 - 2016  
Marmara University, Faculty of Engineering, Mechanical Engineering, 2009 - 2014

## Courses

Engineering Project I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013  
Numerical Methods, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006  
Seminar, Postgraduate, 2023 - 2024, 2022 - 2023  
Engineering Project II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012  
Mechanical Engineering Fundamentals , Undergraduate, 2023 - 2024  
Conduction Heat Transfer, Doctorate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Differential Equations, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2010 - 2011  
İş Sağlığı ve Güvenliği I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
İş Sağlığı ve Güvenliği II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Introduction to Mechanical Engineering, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Convection Heat Transfer, Doctorate, 2020 - 2021, 2019 - 2020  
Internal Combustion Engines I, Undergraduate, 2018 - 2019, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011  
Heat Transfer, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012  
Advanced Fluid Mechanics, Postgraduate, 2017 - 2018  
İş Sağlığı ve Güvenliğinde Elektrik, Postgraduate, 2015 - 2016  
Combustion, Postgraduate, 2013 - 2014  
Fluid Mechanics, Undergraduate, 2013 - 2014  
Thermal Environmental Engineering, Undergraduate, 2013 - 2014

Linear Algebra, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011  
Numerical Methods for Engineers, Postgraduate, 2012 - 2013  
Computational Fluid Dynamics, Postgraduate, 2013 - 2014, 2012 - 2013  
Introduction to Computing, Undergraduate, 2006 - 2007, 2005 - 2006

## Advising Theses

Yılmaz M., DETAILED RENEWABLE ENERGY SYSTEMS ANALYSIS-THE CASE OF TURKEY IN YEARS 2023 AND 2053, Postgraduate, H.BÖLEN(Student), 2019  
Yılmaz M., Soğuk Zincir Kutularında Peltier ile Soğutma Tasarımı ve Analizi, Postgraduate, E.SENA(Student), 2019  
Yılmaz M., Numerical study of jet impingement cooling on a flat plate, Postgraduate, M.SALEH(Student), 2017  
Yılmaz M., One dimensional modeling of SI engines fuelled with gasoline-alcohol blends, Postgraduate, R.SAADAT(Student), 2017  
Yılmaz M., The generation of typical meteorological year and climatic database of Turkey for the energy analysis of buildings, Doctorate, S.YILMAZ(Student), 2015  
Yılmaz M., Evaluation of the technical and economic aspects of solar photovoltaic plants which were built under different climate conditions and feed-in tariff zones, Postgraduate, D.CURA(Student), 2015  
Yılmaz M., Investigation of optimum turbine blade profile by using CFD method to increase the efficiency of a solar chimney prototype, Postgraduate, Ö.FARUK(Student), 2014  
Yılmaz M., CFD modeling of gas burners using renewable and fossil fuels, Postgraduate, M.UMUT(Student), 2014  
Yılmaz M., Determination of heat output of panel radiators using cfd and investigation of alternative designs, Doctorate, E.AYDAR(Student), 2014  
YILMAZ M., Renewable energy : in the context of Turkey's energy policy with special reference to the EU policies, Postgraduate, S.Şekercioğlu(Student), 2011  
Yılmaz M., Renewable energy: In the context of Turkey's energy policy with special reference to the EU policies, Postgraduate, S.ŞEKERCİOĞLU(Student), 2011

## Jury Memberships

Post Graduate, Post Graduate, İstanbul Sabahattin Zaim Üniversitesi, July, 2024  
Doctorate, Doctorate, Marmara Üniversitesi, February, 2024  
Post Graduate, Post Graduate, İstanbul Medeniyet Üniversitesi, January, 2024  
Doctoral Examination, Doctoral Examination, Karabük Üniversitesi, December, 2023  
Doctoral Examination, Doctoral Examination, Karabük Üniversitesi, December, 2023  
Doctoral Examination, Doctoral Examination, Karabük Üniversitesi, December, 2023  
Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, December, 2023  
Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, December, 2023  
Doctoral Examination, Doctoral Examination, Karabük Üniversitesi, December, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Karabük Üniversitesi, December, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Karabük Üniversitesi, December, 2023  
Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, December, 2023  
Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, December, 2023  
Post Graduate, Post Graduate, Marmara Üniversitesi, December, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Karabük Üniversitesi, December, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Karabük Üniversitesi, December, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Marmara Üniversitesi, October, 2023

Doctorate, Doctorate, Marmara Üniversitesi, October, 2023

Post Graduate, Post Graduate, İstanbul Medeniyet Üniversitesi, October, 2023

Post Graduate, Post Graduate, İstanbul Medeniyet Üniversitesi, July, 2023

Doctorate, Doctorate, Sakarya Üniversitesi, May, 2023

Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, April, 2023

Doctorate, Doctorate, Marmara Üniversitesi, March, 2023

Doctorate, Doctorate, Marmara Üniversitesi, February, 2023

Post Graduate, Post Graduate, Karabük Üniversitesi, December, 2022

Doctoral Examination, Doctoral Examination, Karabük Üniversitesi, December, 2022

Doctoral Examination, Doctoral Examination, Karabük Üniversitesi, December, 2022

Post Graduate, Post Graduate, Karabük Üniversitesi, December, 2022

Doctoral Examination, Doctoral Examination, Karabük Üniversitesi, December, 2022

Doctoral Examination, Doctoral Examination, Karabük Üniversitesi, December, 2022

Post Graduate, Post Graduate, Marmara Üniversitesi, November, 2022

Post Graduate, Post Graduate, Marmara Üniversitesi, November, 2022

Doctorate, Doctorate, İstanbul Sabahattin Zaim Üniversitesi, August, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Doğuş Üniversitesi, July, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Marmara Üniversitesi, June, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Marmara Üniversitesi, June, 2022

Doctoral Examination, Doctoral Examination, Karabük Üniversitesi, April, 2022

Post Graduate, Post Graduate, Marmara Üniversitesi, February, 2022

Doctoral Examination, Doctoral Examination, Karabük Üniversitesi, January, 2022

Doctoral Examination, Doctoral Examination, Karabük Üniversitesi, January, 2022

Doctoral Examination, Doctoral Examination, İstanbul Sabahattin Zaim Üniversitesi, December, 2021

Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, November, 2021

Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, November, 2021

Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, November, 2021

Doctorate, Doctorate, Kocaeli Üniversitesi, September, 2021

Doctoral Examination, Doctoral Examination, İstanbul Sabahattin Zaim Üniversitesi, June, 2021

Post Graduate, Post Graduate, Marmara Üniversitesi, June, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Medeniyet Üniversitesi, May, 2021

Doctorate, Doctorate, Marmara Üniversitesi, February, 2021

Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, November, 2020

Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, November, 2020

Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, November, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Marmara Üniversitesi, October, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Marmara Üniversitesi, October, 2020

Doctorate, Doctorate, Marmara Üniversitesi, July, 2020

Doctorate, Doctorate, Marmara Üniversitesi, July, 2020

Post Graduate, Post Graduate, Marmara Üniversitesi, June, 2020

Doctoral Examination, Doctoral Examination, İstanbul Medeniyet Üniversitesi, June, 2020

Post Graduate, Post Graduate, İstanbul Medeniyet Üniversitesi, December, 2019

Post Graduate, Post Graduate, Marmara Üniversitesi, August, 2019

Post Graduate, Post Graduate, Marmara Üniversitesi, August, 2019

Post Graduate, Post Graduate, Marmara Üniversitesi, August, 2019  
Post Graduate, Post Graduate, Marmara Üniversitesi, August, 2019  
Post Graduate, Post Graduate, Marmara Üniversitesi, July, 2019  
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, May, 2019  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İstanbul Gedik Üniversitesi, May, 2019  
Doctoral Examination, Doctoral Examination, İstanbul Medeniyet Üniversitesi, April, 2019  
Post Graduate, Post Graduate, Marmara Üniversitesi, December, 2018  
Post Graduate, Post Graduate, Marmara Üniversitesi, November, 2018  
Post Graduate, Post Graduate, Marmara Üniversitesi, September, 2018  
Doctorate, Doctorate, Marmara Üniversitesi, August, 2018  
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2018  
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, May, 2018  
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, May, 2018  
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2017  
Post Graduate, Post Graduate, Marmara Üniversitesi, April, 2017  
Doctorate, Doctorate, Marmara Üniversitesi, June, 2016  
Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, September, 2015  
Doctorate, Doctorate, Marmara Üniversitesi, August, 2015  
Post Graduate, Post Graduate, İstanbul Gedik Üniversitesi, May, 2015  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Marmara Üniversitesi, January, 2015  
Doctoral Examination, Doctoral Examination, Sakarya Üniversitesi, November, 2014  
Post Graduate, Post Graduate, Marmara Üniversitesi, June, 2014  
Doctorate, Doctorate, Marmara Üniversitesi, June, 2014  
Doctorate, Doctorate, Marmara Üniversitesi, April, 2014  
Post Graduate, Post Graduate, Marmara Üniversitesi, February, 2014  
Post Graduate, Post Graduate, Sakarya Üniversitesi, June, 2013  
Post Graduate, Post Graduate, Marmara Üniversitesi, October, 2012  
Doctorate, Doctorate, Marmara Üniversitesi, May, 2012  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Marmara Üniversitesi, June, 2011  
Post Graduate, Post Graduate, Marmara Üniversitesi, September, 2010

## Designed Lessons

Yılmaz M., İş Sağlığı ve Güvenliği I, Undergraduate, 2018 - 2019  
Yılmaz M., İş Sağlığı ve Güvenliği II, Undergraduate, 2017 - 2018

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

- I. **Solar-Assisted Carbon Capture Process Integrated with a Natural Gas Combined Cycle (NGCC) Power Plant—A Simulation-Based Study**  
Al-Elanjawy Y. A. H., YILMAZ M.  
Processes, vol.12, no.3, 2024 (SCI-Expanded)
- II. **Integrated Systems of a Solar Thermal Energy Driven Power Plant**  
AL-Elanjawy Y., Yılmaz M.  
APPLIED SCIENCES-BASEL, vol.14, no.5, 2024 (SCI-Expanded)
- III. **Combustion performance of a domestic cooker burner at different design parameters and fuels**

YANGAZ M. U., Coskun G., YILMAZ M., Soyhan H. S.

Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.46, no.1, pp.409-423, 2024 (SCI-Expanded)

- IV. **Evaluation of Occupational Safety Courses Given in Undergraduate Departments in Turkey and Investigation of the Effect on Working Life**  
Ozen I., Yilmaz M., Kartal I.  
SUSTAINABILITY, vol.15, no.16, pp.1-18, 2023 (SCI-Expanded)
- V. **Evaluation of the technical and economic aspects of solar photovoltaic plants under different climate conditions and feed-in tariff**  
Cura D., YILMAZ M., KOTEN H., Senthilraja S., Awad M. M.  
Sustainable Cities and Society, vol.80, 2022 (SCI-Expanded)
- VI. **THERMODYNAMIC INVESTIGATION OF ORGANIC RANKINE CYCLE ENERGY RECOVERY SYSTEM AND RECENT STUDIES**  
BOYDAK Ö., Ekmekci I., YILMAZ M., KÖTEN H.  
THERMAL SCIENCE, vol.22, no.6, pp.2679-2690, 2018 (SCI-Expanded)
- VII. **Experimental investigation on the thermal performance of heat recovery system with gravity assisted heat pipe charged with R134a and R410A**  
GEDİK E., YILMAZ M., KURT H.  
APPLIED THERMAL ENGINEERING, vol.99, pp.334-342, 2016 (SCI-Expanded)
- VIII. **Alternative solution via car window filming implementation to combat global warming and resulted benefits around geographic Europe and the European Union**  
Gure N., YILMAZ M.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.10, pp.263-290, 2016 (SCI-Expanded)
- IX. **Compressed Biogas-Diesel Dual-Fuel Engine Optimization Study for Ultralow Emission**  
Koten H., YILMAZ M., Gul M. Z.  
ADVANCES IN MECHANICAL ENGINEERING, 2014 (SCI-Expanded)
- X. **Renewable energy perspectives in the frame of Turkey's and the EU's energy policies**  
Sekercioglu S., YILMAZ M.  
ENERGY CONVERSION AND MANAGEMENT, vol.63, pp.233-238, 2012 (SCI-Expanded)
- XI. **Effects of the injection parameters and compression ratio on the emissions of a heavy-duty diesel engine**  
YILMAZ M., KOTEN H., Gul M. Z.  
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.59, pp.147-163, 2012 (SCI-Expanded)
- XII. **A mathematical model for condensation of bubbles injected through an orifice into subcooled water**  
BUĞUTEKİN A., YILMAZ M., KENTLİ A., ISIKAN M. O.  
Energy Education Science And Technology Part A-Energy Science And Research, vol.24, pp.151-171, 2010 (SCI-Expanded)
- XIII. **Experimental investigation of granular flow through an orifice**  
Ahn H., Basaranoglu Z., YILMAZ M., Bugutekin A., GÜL M. Z.  
POWDER TECHNOLOGY, vol.186, no.1, pp.65-71, 2008 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A Thermodynamic Analysis and Comparison of an Organic Rankine Cycled (ORC) System with Six Different Wet, Dry and Isentropic Working Fluids**  
BOYDAK Ö., EKMEKÇİ İ., YILMAZ M.  
Journal of New Results in Engineering and Natural Science, 2022 (Peer-Reviewed Journal)
- II. **A comparative CFD analysis of NACA0012 and NACA4412 airfoils**  
YILMAZ M., KÖTEN H., Çetinkaya E., Coşar Z.  
Journal of Energy Systems, vol.2, pp.145-159, 2018 (Scopus)

- III. **EXERGO-ECONOMIC ANALYSIS OF MICROCHANNELS IN SINGLE-PHASE FLOW**  
Ozdemir M. R., Sozbir O. R., Yilmaz M.  
JOURNAL OF THERMAL ENGINEERING, vol.4, no.5, pp.2371-2380, 2018 (ESCI)
- IV. **ADVANCED NUMERICAL AND EXPERIMENTAL STUDIES ON CI ENGINE EMISSIONS**  
GÜL M. Z., KÖTEN H., YILMAZ M., SAVCI İ. H.  
JOURNAL OF THERMAL ENGINEERING, vol.4, no.4, pp.2234-2247, 2018 (ESCI)
- V. **CI ENGINE MODELING AND EXPERIMENTAL STUDIES FOR LOWER EXHAUST EMISSIONS**  
GÜL M. Z., YILMAZ M., KÖTEN H., SAVCI İ. H.  
FUELS, FIRE AND COMBUSTION IN ENGINEERING JOURNAL, vol.4, pp.4-13, 2016 (Peer-Reviewed Journal)
- VI. **One Dimensional Modeling of Gasoline Alcohol Dual Fuel Combustion Engine**  
YILMAZ M., KÖTEN H., SAADAT POUR R.  
The International Journal of Energy Engineering Sciences, vol.1, pp.23-34, 2016 (Peer-Reviewed Journal)
- VII. **Car Window Filming Tinting and Shading s Fuel Emission Reduction and Economic Analysis around WA NY NC USA and Istanbul Turkey**  
Nazenin G., YILMAZ M.  
Journal of Energy and Power Sources, vol.2, pp.6-21, 2015 (Peer-Reviewed Journal)
- VIII. **Geçmişten Günümüze Otomobil Teknolojileri**  
DEMİR A., GÜMÜŞ M., SAYIN C., BOZTOPRAK Y., YILMAZ M.  
Mimar ve Mühendis Dergisi, pp.60-63, 2012 (Non Peer-Reviewed Journal)
- IX. **Yerli Otomobil Çalışmalarına Yönelik Öneriler**  
DEMİR A., GÜMÜŞ M., BOZTOPRAK Y., YILMAZ M.  
Mühendis Makine, no.64, pp.54-59, 2012 (Non Peer-Reviewed Journal)
- X. **Geçmişten Günümüze Otomotiv Teknolojileri**  
DEMİR A., GÜMÜŞ M., SAYIN C., BOZTOPRAK Y., YILMAZ M.  
Mühendis Makine, no.64, pp.60-63, 2012 (Non Peer-Reviewed Journal)
- XI. **Effect of the geometry of the digester mixer on biogas production**  
BUĞUTEKİN A., YILMAZ M., Binark A. K.  
FUTURE ENERGY SOURCES , vol.1, pp.133-150, 2009 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **HCCI Engines New trends in automotive industry**  
Köten H., Yılmaz M.  
LAMBERT Academic Publishing, Riga, 2017

## Refereed Congress / Symposium Publications in Proceedings

- I. **NUMERICAL INVESTIGATION OF PPCI STRATEGY FOR HIGH-EFFICIENCY COMBUSTION**  
Şener R., Yılmaz M.  
International Conference on Progresses in Automotive Technologies 2020, İstanbul, Turkey, 28 - 29 December 2020
- II. **A comparative CFD analysis of NACA0012 and NACA4412 airfoil**  
YILMAZ M., KÖTEN H., Çetinkaya E., Coşar Z., BOYDAK Ö.  
Sixth European Conference on Renewable Energy Systems (ECRES2018), İstanbul, Turkey, 25 - 27 June 2018
- III. **An investigation of an environment friendly organic rankine cycle (ORC) energy recovery system based on a eco-friendly working fluid**  
BOYDAK Ö., EKMEKÇİ İ., YILMAZ M., KÖTEN H.  
Sixth European Conference on Renewable Energy Systems (ECRES2018), İstanbul, Turkey, 25 - 27 June 2018
- IV. **Ethanol-Gasoline Fuel Blend Combustion Study in Si Engine**

KÖTEN H., YILMAZ M., SOYHAN H. S.

7th Annual Meeting of the Saudi Arabian Section of Combustion Institute, CİDDE, Saudi Arabia, 21 - 22 May 2017, vol.1

- V. **EXERGY ANALYSIS OF METALLIC RECTANGULAR MICROCHANNELS UNDER SINGLE-PHASE FLOW CONDITIONS**  
ÖZDEMİR M. R., SOZBİR O. R., YILMAZ M.  
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, İstanbul, Turkey, 25 - 28 April 2017
- VI. **EXERGO-ECONOMIC ANALYSIS OF METALLIC RECTANGULAR MICROCHANNELS IN SINGLE-PHASE FLOW**  
ÖZDEMİR M. R., SOZBİR O. R., YILMAZ M.  
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, İstanbul, Turkey, 25 - 28 April 2017
- VII. **New Building Materials for Better Energy Efficiency: Case Study**  
KARAKALE V., YILMAZ M.  
Sixth International Conference on Science Development, 14 - 15 March 2017
- VIII. **CI Engine Modeling and Experimental Studies at Marmara University for Lower Exhaust Emissions**  
GÜL M. Z., YILMAZ M., KÖTEN H., SAVCI İ. H.  
Twelfth International Conference of Fluid Dynamics, Kahire, Egypt, 19 - 20 December 2016
- IX. **One Dimensional Modeling of Gasoline Alcohol Dual Fuel Combustion Engine**  
YILMAZ M., KÖTEN H., SAADAT POUR R.  
UEMK 2016 Conference Proceedings, Gaziantep, Turkey, 13 - 14 October 2016, pp.82-92
- X. **ADVANCED NUMERICAL AND EXPERIMENTAL STUDIES ON CI ENGINE EMISSIONS**  
GÜL M. Z., YILMAZ M., KÖTEN H., SAVCI İ. H.  
INTERNATIONAL CONFERENCE ON ADVANCES IN AUTOMOTIVE TECHNOLOGIES 2016, İstanbul, Turkey, 11 - 14 October 2016, pp.44-54
- XI. **The Generation of Typical Meteorological Year and Climatic Database of Turkey for the Energy analysis of Buildings**  
YILMAZ S., EKMEKÇİ İ., YILMAZ M.  
XII. International HVAC+R Technology Symposium, İstanbul, Turkey, 31 March - 02 April 2016, pp.228-233
- XII. **Comparison of four different airfoil profiles effects on the turbine efficiency in a solar chimney power plant prototype by using CFD method**  
Buyukluoğlu Ö. F., Yılmaz M., Köten H.  
10th EAWE PhD Seminar on Wind Energy in Europe, Orleans, France, 28 - 31 October 2014
- XIII. **Effect of car window filming in summer on reduction of fuel consumption vehicle sourced emissions and contribution to economy all around Europe and European Union**  
GÜRE N., YILMAZ M., TÜMERDEM U.  
13th International Conference on Clean Energy, İstanbul, Turkey, 8 - 12 June 2014
- XIV. **Car Window Filming Tinting and Shading s Fuel Emission Reduction and Economic Analysis around WA NY NC USA and Istanbul Turkey**  
GÜRE N., YILMAZ M.  
12th Annual CMAS Conference, Chapel Hill, NC, United States Of America, 28 - 30 October 2013
- XV. **Modelling and thermal analysis of high power LED armature Türkiye**  
ŞAHBAZ M., KENTLİ A., YILMAZ M., KÖTEN H., YÜKSELENTÜRK Y.  
International Symposium on Computing in Science and Engineering, Aydın, Turkey, 24 - 25 October 2013
- XVI. **Renewable energy Policies In the Case of the EU and Turkey 6 8 October 2011 İstanbul Türkiye**  
ŞEKERCİOĞLU S., YILMAZ M., UYAR T. S.  
International 100% Renewable Energy Conference and Exhibition (IRENEC 2011), İstanbul, Turkey, 6 - 08 October 2011
- XVII. **Numerical Simulation and Optimization of Solar Tower**  
YÜKSELENTÜRK Y., KÖTEN H., ÖZDEMİR M. R., BİNARK N. K., YILMAZ M.



- Tenth International Conference on Sustainable Energy Technologies, İstanbul, Turkey, 4 - 09 September 2011
- XVIII. Renewable Energy In The Context Of Turkey s And The EU s Energy Policies**  
ŞEKERCİOĞLU S., YILMAZ M., UYAR T. S.
- Tenth International Conference on Sustainable Energy Technologies, İstanbul, Turkey, 4 - 07 September 2011
- XIX. Energy And Exergy Analysis of A Heavy Duty CI Engine**  
KÖTEN H., YUKSELENTURK Y., YILMAZ M.
- Tenth International Conference on Sustainable Energy Technologies, İstanbul, Turkey, 4 - 07 September 2011
- XX. CFD Analysis of Combustion and Performance in a Diesel Engine**  
TOKSÖZ S., SOYHAN H. S., COŞKUN G., KÖTEN H., YILMAZ M.
- 7th International Conference on Computational Heat and Mass Transfer, İstanbul, Turkey, 18 - 22 July 2011
- XXI. Heat Transfer Modeling Of a Diesel Engine**  
KÖTEN H., YUKSELENTURK Y., YILMAZ M., GÜL M. Z.
- 7th International Conference on Computational Heat and Mass Transfer, İstanbul, Turkey, 18 - 22 July 2011
- XXII. Multi Dimensional Modeling of Heat and Mass Transfer of Liquid Films and Spray Wall Interactions**  
KÖTEN H., YUKSELENTURK Y., YILMAZ M., GÜL M. Z.
- 7th International Conference on Computational Heat and Mass Transfer, İstanbul, Turkey, 18 July 2011 - 22 April 2015
- XXIII. Combustion Optimization and HCCI Modeling for ultra low Emission**  
KÖTEN H., YILMAZ M., GÜL M. Z.
- 6th International Green Energy Conference (IGEC-6), Eskişehir, Turkey, 5 - 09 June 2011
- XXIV. Multi Dimensional Modeling of a CI Engine**  
KÖTEN H., YILMAZ M., GÜL M. Z.
- 6th International Green Energy Conference (IGEC-6), Eskişehir, Turkey, 5 - 09 June 2011
- XXV. Design Consideration of Solar Powered Cars**  
KÖTEN H., YILMAZ M., GÜL M. Z.
- 6th International Green Energy Conference (IGEC-6), Eskişehir, Turkey, 5 - 09 June 2011
- XXVI. CFD Simulation of a Solar Tower**  
KÖTEN H., YÜKSELENTÜRK Y., YILMAZ M.
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- XXVII. Comparison of Turbulence Models for a Heavy Duty Diesel Engine**  
KÖTEN H., YILMAZ M., GÜL M. Z., SOYHAN H. S.
- Second International Symposium on Computing in Science & Engineering, Kusadası, Turkey, 1 - 04 June 2011, pp.932-938
- XXVIII. Examination of Cone Angle and Spray Profile on Emissions of a Heavy Duty CI Engine and Geometrical Improvements**  
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- Tenth International Congress Of Fluid Dynamics (ICFD), Ain Soukhna, Red Sea, 16 - 19 December 2010
- XXIX. Bir Rüzgar Türbini İçin Tasarım Parametrelerinin Belirlenmesi 1 5 Aralık 2010 Bursa**  
KÖTEN H., AKAY B., YILMAZ M.
8. Ulusal Temiz Enerji Sempozyumu ve Fuarı, Bursa, Turkey, 1 - 05 December 2010, pp.552-559
- XXX. A CFD Study and Geometrical Improvement on Heavy Duty Diesel Engine for Ultra Low Emissions**  
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- ASME 2010 International Mechanical Engineering Congress and Exposition, Vancouver, British Columbia, Canada, United States Of America, 12 - 18 November 2010, pp.1011-1021
- XXXI. Numerical Study on a Heavy Duty CI Engine to Achieve Ultra Low Emissions**  
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YILMAZ M., KÖTEN H., GÜL M. Z.
- ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, Volume 3, İstanbul, Turkey,

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YILMAZ M., GÜL M. Z., KÖTEN H., BİNARK A. K.

11th International Combustion Symposium, Sarajevo, Bosnia And Herzegovina, 24 - 27 June 2010

**XXXIV. Geometrical Improvement and Effects of The Injection Parameters on The Emissions for a Heavy Duty Diesel Engine**

KÖTEN H., YILMAZ M., GÜL M. Z.

OTEKON2010 5. Otomotiv Teknolojileri Kongresi, Bursa, Turkey, 07 June 2010

**XXXV. Effects of the Injection Parameters on the Emissions of a Heavy Duty Diesel Engine**

YILMAZ M., GÜL M. Z., AKAY B., YALÇIN Y., KÖTEN H.

ASME 2009 International Mechanical Engineering Congress and Exposition, Lake Buena Vista, Florida, USA, United States Of America, 13 - 19 December 2009, vol.3, pp.351-360

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YILMAZ M., KÖTEN H., GÜL M. Z.

FCE09 International Conference On Fuels And Combustion In Engines, İstanbul, Turkey, 8 - 09 October 2009, pp.141-150

**XXXVII. Combustion Simulation of A Heavy Duty Diesel Engine**

GÜL M. Z., YILMAZ M., AKAY B., YAVUZ M. A., YILDIRIM M.

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BUĞUTEKİN A., YILMAZ M., BİNARK A. K.

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**XXXIX. In Cylinder cold flow modeling with spray interaction in heavy duty DI CI engine**

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**XL. Effect of The Geometry of The Digester Mixer on Biogas Production**

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10th International Combustion Symposium, Sakarya, Turkey, 9 - 10 October 2008, pp.22

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KIPOGLU O., GÜL M. Z., YILMAZ M.

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## Supported Projects

- Gül M. Z., Ekici B., Taçgın E., Yılmaz M., Köten H., Yılmaz İ. T., TUBITAK Project, TLM16V185 Tipi Ağır Dizel Motorunun Modernizasyonu, 2018 - 2022
- Yılmaz M., Project Supported by Higher Education Institutions, Dizel motorlarında performans ve emisyon modelleri simülasyon ve deneysel çalışmaları, 2016 - 2017
- Yılmaz M., Köten H., Project Supported by Higher Education Institutions, Çift Yakıtlı Dizel Motor CFD Tasarımı ve Emisyon iyileştirmesi, 2013 - 2016
- Gül M. Z., Gümüş M., Sayın C., Yılmaz M., Köten H., Demir A., Project Supported by Higher Education Institutions, İçten Yanmalı Motor Parametrelerinin ve Alternatif Yakıtların Kullanımının Yanma Karakteristiği Motor Performansı ve Egzoz Emisyonlarına Etkisi, 2013 - 2015
- Kar A. K., Yılmaz M., Yalırık H., Project Supported by Higher Education Institutions, Makina Mühendisliği Mekanik Ölçmeler Laboratuvarı Araştırma ve Geliştirme Altyapı Projesi, 2013 - 2015
- Yılmaz M., Büyüklüoğlu Ö. F., Project Supported by Higher Education Institutions, BİR GÜNEŞ KULESİ PROTOTİPİNİN VERİMLİLİĞİNİ ARTIRMAK İÇİN EN UYGUN TÜRBİN KANAT PROFİLİNİN HAD METODUYLA ARAŞTIRILMASI, 2013 - 2014
- Yılmaz M., Şekercioğlu S., Project Supported by Higher Education Institutions, AB Politikalarına Özel Atıfla Türkiye nin Enerji Politikaları Bağlamında Yenilenebilir Enerji, 2011 - 2012
- Gül M. Z., Nas S., Yılmaz M., TUBITAK Project, Çok Düşük Emisyonlu Dar Açılı Direkt Enjeksiyonlu Sıkıştırma İle Ateşlemeli (NADICI) Bir Ağır Hizmet Motorunun Tasarımı ve Modellenmesi, 2009 - 2011
- Gül M. Z., Kar A. K., Binark A. K., Ersoy S., Yılmaz M., Bayraktar Ö. H., Yalırık H., Project Supported by Higher Education Institutions, Güneş Enerjili Araba Tasarımı ve Üretim Projesi, 2006 - 2008
- Gül M. Z., Yılmaz M., Premiership, Çok fazlı tanecik akışları, 2005 - 2007
- Gül M. Z., Yılmaz M., Project Supported by Higher Education Institutions, Çok fazlı tanecik akışları, 2003 - 2005

## Activities in Scientific Journals

İstanbul Sabahattin Zaim Üniversitesi Fen Bilimleri Enstitüsü Dergisi (İZÜFBED), Advisory Committee Member, 2020 - Continues

## Memberships / Tasks in Scientific Organizations

Makina Mühendisleri Odası, Member, 2009 - Continues, Turkey

TÜRK ISI BİLİMİ VE TEKNİĞİ DERNEĞİ, Member, 2009 - Continues, Turkey

## Scientific Refereeing

Project Supported by Other Official Institutions, Marmara University, Turkey, July 2020

Periodicals of Engineering and Natural Sciences, Other Indexed Journal, May 2020

Project Supported by Other Official Institutions, Marmara University, Turkey, August 2019

International Journal of Automotive Engineering and Technologies, Other Indexed Journal, July 2019

Project Supported by Other Official Institutions, Marmara University, Turkey, May 2019

International Journal of Advances in Engineering and Pure Sciences, Other Indexed Journal, February 2019

International Journal of Advances in Engineering and Pure Sciences, Other Indexed Journal, January 2019

Project Supported by Other Official Institutions, Marmara University, Turkey, December 2018

International Journal of Advances in Engineering and Pure Sciences, Other Indexed Journal, October 2018

Marmara Fen Bilimleri Dergisi, Other Indexed Journal, May 2018

Project Supported by Other Official Institutions, Marmara University, Turkey, April 2018

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FUEL, SCI Journal, September 2017  
Project Supported by Other Official Institutions, Marmara University, Turkey, April 2017  
SAKARYA UNİVERSİTY JOURNAL OF SCİENCE, Other Indexed Journal, December 2016  
KOSGEB, Marmara University, Turkey, May 2011  
KOSGEB, Marmara University, Turkey, March 2011  
Development Agency, Marmara University, Turkey, January 2011

## **Tasks In Event Organizations**

Yılmaz M., International Conference on Progresses in Automotive Technologies 2020, Scientific Congress, İstanbul, Turkey, Aralık 2020  
Yılmaz M., International Conference on Progresses in Automotive Technologies 2018, Scientific Congress, İstanbul, Turkey, Mayıs 2018  
Yılmaz M., 13. EKSERJİ ve UYGULAMALARI YAZ KURSU, Science / Art Camp or Summer School Organization, İstanbul, Turkey, Mayıs 2016

## **Metrics**

Publication: 72  
Citation (WoS): 175  
Citation (Scopus): 126  
H-Index (WoS): 8  
H-Index (Scopus): 6

## **Awards**

Cura D., Yılmaz M., Köten H., Senthilraja S., Awad M. M., Yayın Teşvik (UBYT), Tübitak, January 2023  
Yılmaz M., Teşvik Sertifikası, Teknofest, January 2021  
Yılmaz M., Güre N., Yayın Teşvik (UBYT), Ulakbim, May 2017  
Yılmaz M., Gedik E., Kurt H., Yayın Teşvik (UBYT), Ulakbim, July 2016  
Yılmaz M., Şekercioğlu S., Yayın Teşvik (UBYT), Ulakbim, October 2012  
Yılmaz M., Buğutekin A., Kentli A., Isıkan M. O., Yayın Teşvik (UBYT), Ulakbim, January 2010  
Yılmaz M., Gül M. Z., An E., Buğutekin A., Yayın Teşvik (UBYT), Ulakbim, August 2009