

## 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, Fen Bilimleri Enstitüsü, 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  
Marmara University, Faculty of Engineering, Mechanical Engineering, 2015 - 2016  
Marmara University, Faculty of Engineering, Mechanical Engineering, 2009 - 2014

## Courses

Engineering Project I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013  
Numerical Methods, Undergraduate, 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  
Engineering Project II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012  
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  
Differential Equations, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2010 - 2011  
Conduction Heat Transfer, Doctorate, 2021 - 2022, 2020 - 2021, 2019 - 2020  
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, Marmara Üniversitesi, November, 2022

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

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

Appointment Academic Staff, Appointment Academic Staff, Doğu Üniversitesi, July, 2022

Doctoral Examination, Doctoral Examination, Karabük Üniversitesi, April, 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

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

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 Academic Staff, 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  
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  
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. **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)
- II. **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)
- III. **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)

- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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 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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)

- IX. **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)
- X. **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**  
Buyukuoğlu 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.  
6th International Green Energy Conference (IGEC-6), Eskişehir, Turkey, 5 - 09 June 2011
- 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**  
YILMAZ M., KÖTEN H., GÜL M. Z.  
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**  
KÖTEN H., YILMAZ M., GÜL M. Z.  
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**  
KÖTEN H., YILMAZ M., GÜL M. Z.  
ASME 2010 Internal Combustion Engine Division Fall Technical Conference, San Antonio, Texas, USA, 12 - 15 September 2010, pp.319-328
- XXXII. **A CFD Study on Heavy Duty DI Diesel Engine to Achieve Ultra Low Emissions**  
YILMAZ M., KÖTEN H., GÜL M. Z.  
ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, Volume 3, Istanbul, Turkey, Turkey, 12 - 14 July 2010, pp.183-194
- XXXIII. **Injection Parameters and Geometrical Effects on The Emissions of a Heavy Duty CI Engine**  
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 oOf 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
- XXXVI. **Injection Parameters Effects On The Emissions of a Heavy Duty CI Engine and Geometrical Improvements**  
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.  
17. Ulusal Isı Bilimi ve Tekniği Kongresi, Sivas, Turkey, 24 - 27 June 2009
- XXXVIII. **Atık Karıştırıcı Geometrisinin Biyogaz Üretimine Etkisi**  
BUĞUTEKİN A., YILMAZ M., BINARK A. K.



7. Ulusal Temiz Enerji Sempozyumu, İstanbul, Turkey, 17 - 21 December 2008, pp.173-180
- XXXIX. **In Cylinder cold flow modeling with spray interaction in heavy duty DI CI engine**  
GÜL M. Z. , YILMAZ M., NAS S., YILDIRIM M.  
ICAT'08 International Conference on Automotive Technologies, İstanbul, Turkey, 13 - 14 November 2008, pp.127-137
- XL. **Effect of The Geometry of The Digester Mixer on Biogas Production**  
BUĞUTEKİN A., YILMAZ M., BİNARK A. H. K.  
10th International Combustion Symposium, Sakarya, Turkey, 9 - 10 October 2008, pp.22
- XLI. **In cylinder Flow Simulation of a Heavy Duty Diesel Engine**  
YILMAZ M., AKAY B., YAVUZ M. A. , NAS S., GÜL M. Z.  
OTEKON08 Otomotiv Teknolojileri Kongresi, Bursa, Turkey, 1 - 04 June 2008
- XLII. **Discharge of Granular Materials From Hoppers With Various Exit Geometries**  
AN E., YILMAZ E., YILMAZ M., BUĞUTEKİN A.  
ASME 2007 International Mechanical Engineering Congress and Exposition, Seattle, Washington, USA, United States Of America, 11 - 15 November 2007, vol.8, pp.1421-1426
- XLIII. **Investigation of the choking condition of rapid coal granular flow**  
YILMAZ M., AN E., AHMET KORHAN B.  
8. Uluslararası Yanma Sempozyumu, Ankara, Turkey, 8 - 09 September 2004, vol.566
- XLIV. **Simulation of cold flow in a model gas turbine combustion chamber**  
KIPOGLU O., GÜL M. Z. , YILMAZ M.  
OTEKON04 Otomotiv Teknolojileri Kongresi, Bursa, Turkey, 21 - 23 June 2004, pp.463-471
- XLV. **Orman sabit gözetleme noktalarının enerji gereksinimleri için öneriler**  
BİNARK A. K. , HAKYEMEZ A., YILMAZ M.  
6. Uluslararası tarımsal mekanizasyon ve enerji kongresi, Ankara, Turkey, 2 - 06 September 1996
- XLVI. **Orman yangınlarından korunmada rüzgâr enerjisi uygulamalı sabit gözetleme noktaları**  
AHMET KORHAN B., HAKYEMEZ A., YILMAZ M.  
I. Uluslararası yangın ve güvenlik konferansı, İstanbul, Turkey, 20 - 21 May 1996, vol.182

## 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. , Gümüüş 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., Yaltrık 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. , Yaltrık 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 TEKNIĞI 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

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

Project Supported by Other Official Institutions, Marmara University, Turkey, October 2017

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: 67

Citation (WoS): 171

Citation (Scopus): 125

H-Index (WoS): 8

H-Index (Scopus): 6

## **Awards**

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