

## Prof. ATILLA BİLGİN

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Publons / Web Of Science ResearcherID: C-6490-2008

### Education Information

Doctorate, Karadeniz Technical University, Mühendislik Ve Mimarlık Fakültesi, Otomotiv, Turkey 1988 - 1994

Postgraduate, Karadeniz Technical University, Mühendislik Ve Mimarlık Fakültesi, Enerji, Turkey 1985 - 1988

Undergraduate, Karadeniz Technical University, Mühendislik Ve Mimarlık Fakültesi, Turkey 1981 - 1985

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Pistonlu Motorların Silindirleri İçerisindeki Gaz Akışlarının Emme Stroku Boyunca Sayısal Olarak İncelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği / Otomotiv, 1994

Postgraduate, Farklı Kesit Şekline ve Eşdeğer Koniklik Açısına Sahip Geçiş Borularının Deneysel Olarak İncelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği / Enerji, 1988

### Research Areas

Mechanical Engineering, Energy, Alternative Energy Resources, Thermodynamics, Fuels and Combustion, Internal Combustion Engines, Engineering and Technology

### Academic Titles / Tasks

Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, 2009 - Continues

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, 2003 - 2009

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, 1996 - 2003

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, 1985 - 1996

### Courses

MÜHENDİSLİK MATEMATİĞİ, Undergraduate, 2016 - 2017  
MOTORLU TAŞIT TEKİNİĞİ, Undergraduate, 2015 - 2016  
NUMERICAL ANALYSIS, Undergraduate, 2016 - 2017  
ELEKTRİKLİ VE HİBRİT TAŞIT TEKİNİĞİ, Postgraduate, 2016 - 2017  
COMBUSTION THEORY, Doctorate, 2014 - 2015  
İÇTEN YANMALI MOTORLAR, Undergraduate, 2014 - 2015  
ADVANCED NUMERICAL METHODS IN ENGINEERING, Postgraduate, 2014 - 2015  
YAKITLAR VE YANMA, Undergraduate, 2014 - 2015  
MOTOR ELEMANLARI TASARIMI, Undergraduate, 2014 - 2015

## Advising Theses

BİLGİN A., EN DÜŞÜK VİSKOZİTELİ ATIK KIZARTMA YAĞI BİYODİZELİNİN ÜRETİMİ VE YAKIT DEMETİ KARAKTERİSTİKLERİNİN İNCELENMESİ, Doctorate, M.GÜLÜM(Student), 2020  
BİLGİN A., BENZİN MOTORU TASARIMI İÇİN BİLGİSAYAR PROGRAMI GELİŞTİRİLMESİ, Postgraduate, P.OLĞUN(Student), 2020  
BİLGİN A., Yakıt olarak biyodizel-dizel yakıtı karışımlarının kullanıldığı tek silindirli bir dizel motoruna ekserji analizinin uygulanması, Postgraduate, A.Çakmak(Student), 2014  
BİLGİN A., Çeşitli Üretim Parametrelerinin Mısır ve Fındık Yağından Üretilen Biyodizellerin Önemli Yakıt Özelliklerine Etkilerinin Deneysel Olarak İncelenmesi, Postgraduate, M.Gülüm(Student), 2014  
BİLGİN A., Bir Buji Ateşlemeli Motorda İkiz-Buji Kullanılmasının Yanma ve Motor Performans Karakteristikleri Üzerindeki Etkisinin Teorik Olarak İncelenmesi, Doctorate, İ.Altın(Student), 2010  
BİLGİN A., Buji Ateşlemeli Motor Çevrimine Ekserji Analizinin Uygulanması, Doctorate, İ.Sezer(Student), 2008  
BİLGİN A., Dizel Motorlarında Biyodizel – Dizel Yakıtı Karışımlarının Kullanılmasının Motor Performansına Etkisinin Deneysel Olarak İncelenmesi, Postgraduate, C.Soyсал(Student), 2008  
BİLGİN A., İki Bujili Ateşleme Sistemine Sahip Bir Benzin Motorunun Sanki-Boyutlu İki-Bölgeli Termodinamik Çevrim Modeli, Postgraduate, İ.Altın(Student), 2004  
BİLGİN A., Normal Benzine Metanol ve MTBE Katılmasının Buji Ateşlemeli Motorun Performansına ve Eksoz Emisyonlarına Etkisinin Deneysel İncelenmesi, Postgraduate, İ.Sezer(Student), 2002

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

- I. **The modeling and analysis of transesterification reaction conditions in the selection of optimal biodiesel yield and viscosity**  
Gülüm M., Yesilyurt M. K., Bilgin A.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.27, pp.10351-10366, 2020 (SCI-Expanded)
- II. **Theoretical investigation on combustion characteristics of ethanol-fueled dual-plug SI engine**  
Altın İ., Bilgin A., Sezer İ.  
FUEL, vol.257, 2019 (SCI-Expanded)
- III. **The performance assessment of cubic spline interpolation and response surface methodology in the mathematical modeling to optimize biodiesel production from waste cooking oil**  
Gülüm M., Yesilyurt M. K., Bilgin A.  
FUEL, vol.255, 2019 (SCI-Expanded)
- IV. **Measurement and estimation of densities of different biodiesel-diesel-alcohol ternary blends**  
Gülüm M., Onay F. K., Bilgin A.  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.38, 2019 (SCI-Expanded)
- V. **Two-dimensional surface models to predict the density of biodiesel-diesel-alcohol ternary blends**  
Gülüm M., Bilgin A.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2019 (SCI-Expanded)

- VI. **Comparison of viscosity prediction capabilities of regression models and artificial neural networks**  
Gülüm M., Onay F. K., Bilgin A.  
ENERGY, vol.161, pp.361-369, 2018 (SCI-Expanded)
- VII. **A comprehensive study on measurement and prediction of viscosity of biodiesel-diesel-alcohol ternary blends**  
Gülüm M., Bilgin A.  
ENERGY, vol.148, pp.341-361, 2018 (SCI-Expanded)
- VIII. **The effect of metyrosine on oxidative gastric damage induced by ischemia/reperfusion in rats. Biochemical and histopathological evaluation.**  
ÇİMEN O., ÇİMEN F., Gülaboğlu M., BİLGİN A., Çekiç A. B., EKEN H., SÜLEYMAN Z., BİLGİN Y., ALTUNER D.  
Acta chirurgica brasileira, vol.33, pp.259-267, 2018 (SCI-Expanded)
- IX. **Parametric study on some combustion characteristics in a natural gas fueled dual plug SI engine**  
Altın İ., Bilgin A., Ceper B. A.  
ENERGY, vol.139, pp.1237-1242, 2017 (SCI-Expanded)
- X. **Measurements and empirical correlations in predicting biodiesel-diesel blends' viscosity and density**  
Gülüm M., Bilgin A.  
FUEL, vol.199, pp.567-577, 2017 (SCI-Expanded)
- XI. **Exergy and energy analysis with economic aspects of a diesel engine running on biodiesel-diesel fuel blends**  
Cakmak A., BİLGİN A.  
INTERNATIONAL JOURNAL OF EXERGY, vol.24, pp.151-172, 2017 (SCI-Expanded)
- XII. **Two-term power models for estimating kinematic viscosities of different biodiesel-diesel fuel blends**  
Gülüm M., Bilgin A.  
FUEL PROCESSING TECHNOLOGY, vol.149, pp.121-130, 2016 (SCI-Expanded)
- XIII. **FARKLI BUJİ SAYILARI VE KONUMLARINA SAHİP BUJİ ATEŞLEMELİ BİR MOTORDA ATEŞLEME AVANSININ MOTOR PERFORMANS PARAMETRELERİ ÜZERİNDEKİ ETKİSİ**  
ALTIN İ., BİLGİN A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, pp.361-368, 2016 (SCI-Expanded)
- XIV. **The Effect of Spark Advance on Engine Performance Characteristics in a Spark Ignition Engine having Various Spark Plug Numbers and Locations**  
ALTIN İ., BİLGİN A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, pp.361-368, 2016 (SCI-Expanded)
- XV. **THE EFFECT OF SPARK ADVANCE ON ENGINE PERFORMANCE CHARACTERISTICS IN A SPARK IGNITION ENGINE HAVING VARIOUS SPARK PLUG NUMBERS AND LOCATIONS**  
Altın İ., Bilgin A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, pp.361-368, 2016 (SCI-Expanded)
- XVI. **Quasi-dimensional modeling of a fast-burn combustion dual-plug spark-ignition engine with complex combustion chamber geometries**  
Altın İ., Bilgin A.  
APPLIED THERMAL ENGINEERING, vol.87, pp.678-687, 2015 (SCI-Expanded)
- XVII. **Density, flash point and heating value variations of corn oil biodiesel-diesel fuel blends**  
Gülüm M., Bilgin A.  
FUEL PROCESSING TECHNOLOGY, vol.134, pp.456-464, 2015 (SCI-Expanded)
- XVIII. **COMPARISON OF OPTIMUM REACTION PARAMETERS OF CORN OIL BODIESELS PRODUCED BY USING SODIUM HYDROXIDE (NaOH) AND POTASSIUM HYDROXIDE (KOH)**  
Gülüm M., Bilgin A., Cakmak A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.30, pp.503-511, 2015 (SCI-Expanded)

- XIX. **Exergetic Analysis of Using the Gaseous Fuels in Spark Ignition Engines**  
Sezer I, BİLGİN A.  
JOURNAL OF THERMOPHYSICS AND HEAT TRANSFER, vol.28, no.2, pp.347-355, 2014 (SCI-Expanded)
- XX. **Effects of charge properties on exergy balance in spark ignition engines**  
Sezer I, BİLGİN A.  
FUEL, vol.112, pp.523-530, 2013 (SCI-Expanded)
- XXI. **COMPARATIVE INVESTIGATION THE USE OF METHANOL AND METHYL TERTIARY BUTYL ETHER IN GASOLINE ON ENGINE PERFORMANCE, CO EMISSIONS AND FUEL COST**  
Sezer I, BİLGİN A.  
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.33, no.2, pp.35-44, 2013 (SCI-Expanded)
- XXII. **Exergetic Evaluation of Speed and Load Effects in Spark Ignition Engines**  
Sezer I, BİLGİN A.  
OIL & GAS SCIENCE AND TECHNOLOGY-REVUE D IFP ENERGIES NOUVELLES, vol.67, no.4, pp.647-660, 2012 (SCI-Expanded)
- XXIII. **A parametric study on the performance parameters of a twin-spark SI engine**  
Altın İ., Bilgin A.  
ENERGY CONVERSION AND MANAGEMENT, vol.50, pp.1902-1907, 2009 (SCI-Expanded)
- XXIV. **Investigation of the Effect of Dual Ignition on the Exhaust Emissions of an SI Engine Operating on Different Conditions by Using Quasi-Dimensional Thermodynamic Cycle Model**  
Bilgin A., Altın İ., Sezer İ.  
Strojarstvo, vol.51, no.5, pp.459-464, 2009 (SCI-Expanded)
- XXV. **Exergetic Analysis of Using Oxygenated Fuels in Spark-Ignition (SI) Engines**  
Sezer İ., Altın İ., Bilgin A.  
ENERGY & FUELS, vol.23, pp.1801-1807, 2009 (SCI-Expanded)
- XXVI. **Effects of the Stroke/Bore Ratio on the Performance Parameters of a Dual-Spark-Ignition (DSI) Engine**  
Altın İ., Sezer İ., Bilgin A.  
ENERGY & FUELS, vol.23, pp.1825-1831, 2009 (SCI-Expanded)
- XXVII. **Investigation of the Effect of Dual Ignition on the Exhaust Emissions of an SI Engine Operating on Different Conditions by Using Quasi-dimensional Thermodynamic Cycle Model**  
BİLGİN A., ALTIN İ., Sezer İ.  
Strojarstvo: Journal for Theory and Application in Mechanical Engineering, vol.51, no.5, pp.459-464, 2009 (SCI-Expanded)
- XXVIII. **Mathematical analysis of spark ignition engine operation via the combination of the first and second laws of thermodynamics**  
Sezer I, BİLGİN A.  
PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES, vol.464, no.2100, pp.3107-3128, 2008 (SCI-Expanded)
- XXIX. **Effects of methanol addition to gasoline on the performance and fuel cost of a spark ignition engine**  
BİLGİN A., Sezer I.  
ENERGY & FUELS, vol.22, no.4, pp.2782-2788, 2008 (SCI-Expanded)
- XXX. **Effects of methyl tert-butyl ether addition to base gasoline on the performance and CO emissions of a spark ignition engine**  
Sezer I, BİLGİN A.  
ENERGY & FUELS, vol.22, no.2, pp.1341-1348, 2008 (SCI-Expanded)
- XXXI. **Exergy analysis of SI engines**  
Sezer I, BİLGİN A.  
INTERNATIONAL JOURNAL OF EXERGY, vol.5, no.2, pp.204-217, 2008 (SCI-Expanded)
- XXXII. **Synthesis and characterization of a new (E,E)-dioxime and its mono and polynuclear complexes containing a 14-membered dithiadiaz macrocyclic moiety**

BILGIN A., ERTEM B., GOK Y., Dilber G., KILICARSLAN M.

Journal of Coordination Chemistry, vol.57, no.10, pp.883-891, 2004 (SCI-Expanded)

XXXIII. **Geometric features of the flame propagation process for an SI engine having dual-ignition system**  
Bilgin A.

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.26, no.11, pp.987-1000, 2002 (SCI-Expanded)

XXXIV. **The effects of diesel-ethanol blends on diesel engine performance**

Bilgin A., Durgun O., Sahin Z.

ENERGY SOURCES, vol.24, no.5, pp.431-440, 2002 (SCI-Expanded)

XXXV. **Numerical simulation of the cold flow in an axisymmetric non-compressing engine-like geometry**  
Bilgin A.

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.23, no.10, pp.899-908, 1999 (SCI-Expanded)

XXXVI. **A new vicinal-dioxime and its mono and trinuclear complexes containing the monoazatetraoxa macrocyclic moiety**

Karabocek S., BILGIN A., GOK Y.

TRANSITION METAL CHEMISTRY, vol.22, no.4, pp.420-424, 1997 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Düşük viskoziteli atık kızartma yağı etil esteri üretimi**  
Gülüm M., Bilgin A., Cakmak A.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.26, no.4, pp.674-682, 2020 (ESCI)
- II. **OPTIMIZATION OF TRANSESTERIFICATION OF WASTE COOKING OIL WITH METHANOL BY CUBIC SPLINE INTERPOLATION**  
Gülüm M., Bilgin A.  
SAE International Journal of Fuels and Lubricants, vol.13, no.2, pp.151-165, 2020 (ESCI)
- III. **Measurement and Prediction of Density and Viscosity of Different Diesel-Vegetable Oil Binary Blends**  
Gülüm M., Bilgin A.  
ENVIRONMENTAL AND CLIMATE TECHNOLOGIES, vol.23, pp.214-228, 2019 (ESCI)
- IV. **Density and viscosity measurements for olive oil biodiesel, diesel fuel and n-butyl alcohol ternary blends**  
Gülüm M., Bilgin A.  
Journal of Clean Energy Technologies, vol.6, no.2, pp.183-187, 2018 (Peer-Reviewed Journal)
- V. **Evaluation of Predictive Capabilities of Regression Models and Artificial Neural Networks for Density and Viscosity Measurements of Different Biodiesel-Diesel-Vegetable Oil Ternary Blends**  
Gülüm M., Kutlu Onay F., Bilgin A.  
ENVIRONMENTAL AND CLIMATE TECHNOLOGIES, vol.22, pp.179-205, 2018 (ESCI)
- VI. **An Experimental Optimization Research of Methyl and Ethyl Esters Production from Safflower Oil**  
Gülüm M., Bilgin A.  
ENVIRONMENTAL AND CLIMATE TECHNOLOGIES, vol.22, pp.132-148, 2018 (ESCI)
- VII. **Logarithmic and rational models to predict kinematic viscosities of sunflower biodiesel-diesel fuel blends**  
Gülüm M., Bilgin A.  
International Journal of Advances on Automotive and Technology, vol.2, no.1, pp.20-26, 2018 (Peer-Reviewed Journal)
- VIII. **Performance and Emissions of a Single Cylinder CI Engine Running on Corn Oil Methyl Ester-Diesel Blends**  
Çakmak A., BILGIN A., GÜLÜM M.  
Journal of Clean Energy Technologies, vol.5, no.4, pp.280-284, 2017 (Peer-Reviewed Journal)
- IX. **Viscosity correlation development for corn oil biodiesel-diesel fuel blends**

- Gülüm M., Bilgin A.  
International Journal of Smart Grid and Clean Energy, vol.6, pp.165-170, 2017 (Scopus)
- X. **Production of the lowest viscosity waste cooking oil biodiesel by using ethanol and potassium hydroxide**  
Gülüm M., Bilgin A., Cakmak A.  
Journal of Clean Energy Technologies, vol.5, no.4, pp.289-293, 2017 (Peer-Reviewed Journal)
- XI. **Determination of densities and viscosities of canola oil biodiesel-diesel fuel-isopropyl alcohol blends**  
Gülüm M., Bilgin A.  
International Journal of Smart Grid and Clean Energy, vol.6, pp.177-181, 2017 (Scopus)
- XII. **Bir Dizel Motorunda Mısır Yağı Biyodizeli Kullanımının Termodinamik Analizi**  
Çakmak A., BİLGİN A.  
GAZİ ÜNİVERSİTESİ FEN BİLİMLERİ DERGİSİ PART: C TASARIM VE TEKNOLOJİ, vol.5, no.2, pp.87-97, 2017 (Peer-Reviewed Journal)
- XIII. **Determination Of Transesterification Reaction Parameters Giving The Lowest Viscosity Waste Cooking Oil Biodiesel**  
BİLGİN A., GÜLÜM M., Koyuncuoğlu İ., Naç E., Çakmak A.  
Procedia - Social and Behavioral Sciences, vol.195, no.2015, pp.2492-2500, 2015 (Peer-Reviewed Journal)
- XIV. **Farklı Çalışma Koşullarında Dietil Eter – Dizel Yakıt Karışımlarının Motor Performansına Etkisinin İncelenmesi**  
Sezer İ., BİLGİN A.  
Mühendis ve Makina, vol.53, no.631, pp.42-49, 2012 (Peer-Reviewed Journal)
- XV. **Piston Oyuğunun Alev Cephesinin Geometrik Özelliklerine Etkisi**  
BİLGİN A.  
Mühendis ve Makina, vol.41, no.487, pp.19-25, 2000 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Temperature Dependence of Densities of Different Biodiesel-Diesel-Alcohol Ternary Blends**  
Gülüm M., Bilgin A.  
in: Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018), Nicolae Burnete and Bogdan Ovidiu Varga, Editor, Springer Nature Switzerland AG, Zug, pp.225-233, 2018
- II. **Development of Two-Dimensional Models for Estimating Densities of Biodiesel-Diesel-Alcohol Ternary Blends**  
Gülüm M., Olusegun David S., Bilgin A.  
in: Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018), Nicolae Burnete and Bogdan Ovidiu Varga, Editor, Springer Nature Switzerland AG, Zug, pp.249-257, 2018
- III. **PART 3 Alternative Fuels and Materials, Chapter 3.7 - Regression Models for Predicting Some Important Fuel Properties of Corn Oil Biodiesel-Diesel Fuel Blends**  
Bilgin A., Gülüm M.  
in: Exergetic, Energetic and Environmental Dimensions, Dincer I., Colpan C.O., Kizilkan O., Editor, Academic Press, Amsterdam, pp.829-850, 2018
- IV. **PART 3 Alternative Fuels and Materials, Chapter 3.10 - Research on Reaction Parameters About Hazelnut Oil Methyl Ester Production**  
Gülüm M., Bilgin A.  
in: Exergetic, Energetic and Environmental Dimensions, Dincer I., Colpan C.O., Kizilkan O., Editor, Academic Press, Amsterdam, pp.873-894, 2018
- V. **CHAPTER 3.7 Regression Models for Predicting Some Important Fuel Properties of Corn and Hazelnut Oil Biodiesel-Diesel Fuel Blends**  
GÜLÜM M., BİLGİN A.  
in: Exergetic, Energetic and Environmental Dimensions, Ibrahim Dincer, C. Ozgur Colpan, Onder Kizilkan, Editor,

Elsevier, London, pp.829-850, 2018

- VI. **Effects of Temperature and Biodiesel Fraction on Densities of Commercially Available Diesel Fuel and Its Blends with the Highest Methyl Ester Yield Corn Oil Biodiesel Produced by Using NaOH**  
BİLGİN A., GÜLÜM M.  
in: Exergy for A Better Environment and Improved Sustainability 2, Fethi Aloui, Ibahim Dincer, Editor, Springer, pp.67-82, 2018
- VII. **Effects of Temperature and Biodiesel Fraction on Dynamic Viscosities of Commercially Available Diesel Fuels and Its Blends with the Highest Methyl Ester Yield Corn Oil Biodiesel Produced by Using KOH**  
Gülüm M., Bilgin A.  
in: Exergy for A Better Environment and Improved Sustainability, Volume 2, Fethi Aloui and Ibrahim Dincer, Editor, Springer International Publishing, Zug, pp.1-1469, 2018
- VIII. **Effects of Temperature and Biodiesel Fraction on Densities of Commercially Available Diesel Fuel and Its Blends with the Highest Methyl Ester Yield Corn Oil Biodiesel Produced by Using NaOH**  
Bilgin A., Gülüm M.  
in: Exergy for A Better Environment and Improved Sustainability, Volume 2, Fethi Aloui and Ibrahim Dincer, Editor, Springer International Publishing Ag, Zug, pp.67-82, 2018
- IX. **BÖLÜM 17 SIKIŞTIRILABİLİR AKIŞ**  
BİLGİN A.  
in: TERMODİNAMİK - MÜHENDİSLİK YAKLAŞIMIYLA, 7. baskının çevirisi, Pınarbaşı A, Editor, Palme Yayıncılık, Ankara, pp.843-901, 2013
- X. **BÖLÜM 10 BUHARLI VE BİRLEŞİK GÜÇ ÇEVİRİMLERİ**  
BİLGİN A.  
in: TERMODİNAMİK - MÜHENDİSLİK YAKLAŞIMIYLA, 7. baskının çevirisi, Pınarbaşı A, Editor, Palme Yayıncılık, Ankara, pp.551-605, 2013
- XI. **BÖLÜM 6 TERMODİNAMİĞİN İKİNCİ YASASI**  
BİLGİN A.  
in: TERMODİNAMİK - MÜHENDİSLİK YAKLAŞIMIYLA, 7. baskının çevirisi, Pınarbaşı A., Editor, Palme Yayıncılık, Ankara, pp.273-325, 2013
- XII. **BÖLÜM 9 GAZ AKIŞKANLI GÜÇ ÇEVİRİMLERİ**  
BİLGİN A.  
in: TERMODİNAMİK - MÜHENDİSLİK YAKLAŞIMIYLA, 7. baskının çevirisi, Pınarbaşı A., Editor, Palme Yayıncılık, Ankara, pp.483-550, 2013
- XIII. **BÖL. 6 TERMO. İKİNCİ YASASI; BÖL. 9 GAZ AKIŞ. GÜÇ ÇEVİR.; BÖL. 10 BUH. VE BİRLEŞİK GÜÇ ÇEV. ; BÖL. 17 SIKIŞTIRILABİLİR AKIŞ**  
BİLGİN A.  
in: TERMODİNAMİK - MÜHENDİSLİK YAKLAŞIMIYLA, 5. baskının çevirisi, Pınarbaşı A., Editor, Güven Bilimsel, İzmir, pp.487-605, 2011

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Theoretical investigation on combustion characteristics of ethanol-fueled dual-plug SI engine**  
ALTIN İ., BİLGİN A., SEZER İ.  
7th International Conference on Renewable Fuels Combustion and Fire, Antalya, Turkey, 10 - 12 March 2019, pp.345-346
- II. **INVESTIGATION the EFFECT of TEMPERATURE on DENSITIES of CORN OIL (CO)-DIESELFUEL (DF) BLENDS**  
Gülüm M., Cakmak A., Bilgin A.  
4th International Energy & Engineering Congress, Gaziantep, Turkey, 24 - 25 October 2019, pp.158-163
- III. **TEMPERATURE DEPENDENT DYNAMIC VISCOSITY OF VEGETABLE OILBIODIESEL BLENDS**

Gülüm M., Cakmak A., Bilgin A.

4th International Energy & Engineering Congress, Gaziantep, Turkey, 24 - 25 October 2019, pp.152-157

- IV. **Measurement and Prediction of Dynamic Viscosities of Vegetable Oil-Diesel Fuel Blends**  
Gülüm M., Bilgin A.  
3 rd International Conference on Advanced Engineering Technologies (ICADET), Bayburt, Turkey, 19 - 21 September 2019, pp.1073-1076
- V. **The Effects of Transesterification Reaction Parameters on Viscosity of Waste Cooking Oil Biodiesels Produced by Using Potassium Methoxide and Ethanol**  
Gülüm M., Bilgin A.  
3 rd International Conference on Advanced Engineering Technologies (ICADET), Bayburt, Turkey, 19 - 21 September 2019, pp.1077-1082
- VI. **Prediction of viscosity of biodiesel-diesel fuel blends using two-dimensional surface models**  
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## Congress and Symposium Activities

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