

## Assoc. Prof. MURAT KADİR YEŞİLYURT

### Personal Information

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### Education Information

Doctorate, Yozgat Bozok University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Turkey 2013 - 2017

Postgraduate, Kirikkale University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 2011 - 2013

Undergraduate, Cukurova University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü (İngilizce), Turkey 2007 - 2011

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Biyodizel-dizel yakıt karışımlarına farklı alkol ilavelerinin dizel motorlarda performans, yanma ve emisyon karakteristiklerine etkilerinin incelenmesi, Yozgat Bozok University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), 2017

Postgraduate, Expanded polystyrene styrofoam (EPS) ısı yalıtım malzemelerinde gözenekliliğin ısı iletkenliğe etkisinin deneysel ve sayısal incelenmesi, Kirikkale University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 2013

### Research Areas

Mechanical Engineering, Energy, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, 2021 - Continues

### Courses

PİSTONLU MOTORLARDA YANMA, Postgraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020

YENİLENEBİLİR ENERJİ TEKNOLOJİLERİ, Postgraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020

UZMANLIK ALAN DERSİ I, Postgraduate, 2019 - 2020

YAKITLAR VE YANMA, Undergraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020

UZMANLIK ALAN DERSİ II, Postgraduate, 2018 - 2019, 2019 - 2020

BİTİRME PROJESİ, Undergraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020

TEZ ÇALIŞMASI, Postgraduate, 2019 - 2020

MAK. MÜH. UYG. PROJE, Undergraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020

MOTURLAR, Undergraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020

SEMİNER, Doctorate, 2018 - 2019

SEMİNER, Postgraduate, 2018 - 2019

MATEMATİK-1, Undergraduate, 2017 - 2018

MATEMATİK-2, Undergraduate, 2017 - 2018

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Effects of various long-chain alcohols as alternative fuel additives on exergy and cost in a spark-ignition engine**  
Doğan B., Yeşilyurt M. K. , Erol D., Yaman H.  
International Journal Of Exergy, pp.1-22, 2022 (Journal Indexed in SCI Expanded)
- II. **Simultaneous optimization of multiple engine parameters of a 1-heptanol / gasoline fuel blends operated a port-fuel injection spark- ignition engine using response surface methodology approach**  
Yaman H., YEŞİLYURT M. K. , Uslu S.  
ENERGY, vol.238, 2022 (Journal Indexed in SCI)
- III. **Comprehensive investigation of using n-butanol/gasoline blends in a port-fuel injection spark-ignition engine**  
Yaman H., Yeşilyurt M. K.  
International Journal Of Exergy, pp.1-23, 2022 (Journal Indexed in SCI Expanded)
- IV. **An extensive investigation of utilization of a C8 type long-chain alcohol as a sustainable next-generation biofuel and diesel fuel blends in a CI engine - The effects of alcohol infusion ratio on the performance, exhaust emissions, and combustion characteristics**  
YEŞİLYURT M. K. , Cakmak A.  
FUEL, vol.305, 2021 (Journal Indexed in SCI)
- V. **The influence of n-pentanol blending with gasoline on performance, combustion, and emission behaviors of an SI engine**  
Yaman H., YEŞİLYURT M. K.  
Engineering Science and Technology, an International Journal, vol.24, pp.1329-1346, 2021 (Journal Indexed in SCI)
- VI. **Effects of using ethyl acetate as a surprising additive in SI engine pertaining to an environmental perspective**  
YEŞİLYURT M. K. , Erol D., Yaman H., Dogan B.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 2021 (Journal Indexed in SCI)
- VII. **Application of Higher-Order Alcohols (1-Hexanol-C6 and 1-Heptanol-C7) in a Spark-Ignition Engine: Analysis and Assessment**  
YAMAN H., DOĞAN B., Yesilyurt M. K. , EROL D.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, 2021 (Journal Indexed in SCI)
- VIII. **Wastes to energy: Improving the poor properties of waste tire pyrolysis oil with waste cooking oil methyl ester and waste fusel alcohol-A detailed assessment on the combustion, emission, and performance characteristics of a CI engine**  
Agbulut U., YEŞİLYURT M. K. , SARIDEMİR S.  
ENERGY, vol.222, 2021 (Journal Indexed in SCI)
- IX. **Optimization of Parameters Affecting the Performance and Emissions of a Spark Ignition Engine Fueled with n-Pentanol/Gasoline Blends Using Taguchi Method**  
Uslu S., YAMAN H., Yesilyurt M. K.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, 2021 (Journal Indexed in SCI)
- X. **The production of methyl ester from industrial grade hemp (Cannabis sativa L.) seed oil: a perspective of Turkey — the optimization study using the Taguchi method**  
Yilbaşı Z., Yesilyurt M. K. , Arslan M.  
Biomass Conversion and Biorefinery, 2021 (Journal Indexed in SCI Expanded)

- XI. **The examination of a compression-ignition engine powered by peanut oil biodiesel and diesel fuel in terms of energetic and exergetic performance parameters**  
YEŞİLYURT M. K.  
FUEL, vol.278, 2020 (Journal Indexed in SCI)
- XII. **A detailed investigation on the performance, combustion, and exhaust emission characteristics of a diesel engine running on the blend of diesel fuel, biodiesel and 1-heptanol (C7 alcohol) as a next-generation higher alcohol**  
YEŞİLYURT M. K.  
FUEL, vol.275, 2020 (Journal Indexed in SCI)
- XIII. **Investigation on 1-heptanol as an oxygenated additive with diesel fuel for compression-ignition engine applications: An approach in terms of energy, exergy, exergoeconomic, enviroeconomic, and sustainability analyses**  
Dogan B., Cakmak A., YEŞİLYURT M. K. , EROL D.  
FUEL, vol.275, 2020 (Journal Indexed in SCI)
- XIV. **Investigation on the structural effects of the addition of alcohols having various chain lengths into the vegetable oil-biodiesel-diesel fuel blends: An attempt for improving the performance, combustion, and exhaust emission characteristics of a compression ignition engine**  
YEŞİLYURT M. K. , Aydin M., YILBAŞI Z., ARSLAN M.  
FUEL, vol.269, 2020 (Journal Indexed in SCI)
- XV. **The performance, emissions, and combustion characteristics of an unmodified diesel engine running on the ternary blends of pentanol/safflower oil biodiesel/diesel fuel**  
Yeşilyurt M. K. , Yılbaşı Z., Aydin M.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.140, no.6, pp.2903-2942, 2020 (Journal Indexed in SCI)
- XVI. **Biodiesel synthesis from *Styrax officinalis* L. seed oil as a novel and potential non-edible feedstock: A parametric optimization study through the Taguchi technique**  
YEŞİLYURT M. K. , Cesur C.  
FUEL, vol.265, 2020 (Journal Indexed in SCI)
- XVII. **The modeling and analysis of transesterification reaction conditions in the selection of optimal biodiesel yield and viscosity**  
GÜLÜM M., YEŞİLYURT M. K. , Bilgin A.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.27, no.10, pp.10351-10366, 2020 (Journal Indexed in SCI)
- XVIII. **The production of biodiesel from safflower (*Carthamus tinctorius* L.) oil as a potential feedstock and its usage in compression ignition engine: A comprehensive review**  
YEŞİLYURT M. K. , Cesur C., ASLAN V., YILBAŞI Z.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.119, 2020 (Journal Indexed in SCI)
- XIX. **Experimental investigation on the performance, combustion and exhaust emission characteristics of a compression-ignition engine fueled with cottonseed oil biodiesel/diethyl ether/diesel fuel blends**  
YEŞİLYURT M. K. , Aydin M.  
ENERGY CONVERSION AND MANAGEMENT, vol.205, 2020 (Journal Indexed in SCI)
- XX. **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., YEŞİLYURT M. K. , Bilgin A.  
FUEL, vol.255, 2019 (Journal Indexed in SCI)
- XXI. **The effects of the fuel injection pressure on the performance and emission characteristics of a diesel engine fuelled with waste cooking oil biodiesel-diesel blends**  
YEŞİLYURT M. K.  
RENEWABLE ENERGY, vol.132, pp.649-666, 2019 (Journal Indexed in SCI)
- XXII. **Application of response surface methodology for the optimization of biodiesel production from yellow mustard (*Sinapis alba* L.) seed oil**

- YEŞİLYURT M. K. , Arslan M., ERYILMAZ T.  
International Journal of Green Energy, vol.16, no.1, pp.60-71, 2019 (Journal Indexed in SCI Expanded)
- XXIII. **Analysis of the fuel injection pressure effects on energy and exergy efficiencies of a diesel engine operating with biodiesel**  
YEŞİLYURT M. K. , Arslan M.  
Biofuels, vol.10, no.5, pp.643-655, 2019 (Journal Indexed in SCI Expanded)
- XXIV. **A comparative analysis of the engine performance, exhaust emissions and combustion behaviors of a compression ignition engine fuelled with biodiesel/diesel/1-butanol (C4 alcohol) and biodiesel/diesel/n-pentanol (C5 alcohol) fuel blends**  
YEŞİLYURT M. K. , ERYILMAZ T., ARSLAN M.  
ENERGY, vol.165, pp.1332-1351, 2018 (Journal Indexed in SCI)
- XXV. **EXPERIMENTAL INVESTIGATION OF THE EFFECTS OF ETHANOL ADDITION INTO BIODIESEL-DIESEL FUEL BLENDS ON THE PERFORMANCE, COMBUSTION AND EMISSION CHARACTERISTICS**  
YEŞİLYURT M. K. , ARSLAN M., ERYILMAZ T.  
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.38, no.2, pp.129-150, 2018 (Journal Indexed in SCI)
- XXVI. **The evaluation of a direct injection diesel engine operating with waste cooking oil biodiesel in point of the environmental and enviroeconomic aspects**  
YEŞİLYURT M. K.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.40, no.6, pp.654-661, 2018 (Journal Indexed in SCI)
- XXVII. **PROCESS OPTIMIZATION FOR BIODIESEL PRODUCTION FROM NEUTRALIZED WASTE COOKING OIL AND THE EFFECT OF THIS BIODIESEL ON ENGINE PERFORMANCE**  
ERYILMAZ T., AKSOY F., AKSOY L., BAYRAKÇEKEN H., AYSAL F. E. , ŞAHİN S., YEŞİLYURT M. K.  
CT&F-CIENCIA TECNOLOGIA Y FUTURO, vol.8, no.1, pp.121-127, 2018 (Journal Indexed in SCI)
- XXVIII. **Comparison of Empirical Equations and Artificial Neural Network Results in Terms of Kinematic Viscosity Prediction of Fuels Based on Hazelnut Oil Methyl Ester**  
ERYILMAZ T., ARSLAN M., YEŞİLYURT M. K. , TANER A.  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.35, no.6, pp.1827-1841, 2016 (Journal Indexed in SCI)
- XXIX. **Influence of blending ratio on the physicochemical properties of safflower oil methyl ester-safflower oil, safflower oil methyl ester-diesel and safflower oil-diesel**  
ERYILMAZ T., YEŞİLYURT M. K.  
RENEWABLE ENERGY, vol.95, pp.233-247, 2016 (Journal Indexed in SCI)
- XXX. **Biodiesel production potential from oil seeds in Turkey**  
ERYILMAZ T., YEŞİLYURT M. K. , Cesur C., GÖKDOĞAN O.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.58, pp.842-851, 2016 (Journal Indexed in SCI)
- XXXI. **Prediction of Kinematic Viscosities of Biodiesels Derived from Edible and Non-edible Vegetable Oils by Using Artificial Neural Networks**  
ERYILMAZ T., YEŞİLYURT M. K. , TANER A., Celik S. A.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.40, no.12, pp.3745-3758, 2015 (Journal Indexed in SCI)
- XXXII. **INVESTIGATION OF THE EFFECT OF BLENDING RATIO AND TEMPERATURE ON THE KINEMATIC VISCOSITY AND SPECIFIC GRAVITY OF WASTE COOKING OIL BIODIESEL**  
ERYILMAZ T., YEŞİLYURT M. K.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.24, pp.1523-1529, 2015 (Journal Indexed in SCI)
- XXXIII. **COMPARATIVE ANALYSIS OF FUEL PROPERTIES OF BIODIESELS DERIVED FROM SUNFLOWER OIL, WASTE SUNFLOWER OIL AND NEUTRALIZED WASTE SUNFLOWER OIL**  
ERYILMAZ T., YEŞİLYURT M. K.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.24, no.10, pp.3197-3204, 2015 (Journal Indexed in SCI)
- XXXIV. **PREDICTION OF DENSITY OF WASTE COOKING OIL BIODIESEL USING ARTIFICIAL NEURAL NETWORKS**  
ERYILMAZ T., YEŞİLYURT M. K. , GÖKDOĞAN O.

- FRESENIUS ENVIRONMENTAL BULLETIN, vol.24, pp.1862-1870, 2015 (Journal Indexed in SCI)
- XXXV. **INVESTIGATION OF TEMPERATURE-DEPENDENT KINEMATIC VISCOSITY VARIATIONS OF NEUTRALIZED WASTE COOKING OIL BIODIESEL AND ITS BLENDS**  
ERYILMAZ T., YEŞİLYURT M. K.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.24, pp.1016-1024, 2015 (Journal Indexed in SCI)
- XXXVI. **THERMOPHYSICAL PROPERTIES OF CASTOR OIL (RICINUS COMMUNIS L.) BIODIESEL AND ITS BLENDS**  
GÖKDOĞAN O., ERYILMAZ T., YEŞİLYURT M. K.  
CT&F-CIENCIA TECNOLOGIA Y FUTURO, vol.6, no.1, pp.95-128, 2015 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Improving the Running Conditions of Diesel Engine with Grape Seed Oil Additives by Response Surface Design**  
USLU S., YEŞİLYURT M. K.  
International Journal of Automotive Science And Technology, vol.4, no.3, pp.185-192, 2020 (Other Refereed National Journals)
- II. **Dizel yakıtına farklı ağır alkoller (1-Bütanol, 1-Pentanol ve 1-Hekzanol) ilave edilmesinin tek silindirli bir dizel motorunun performans, yanma ve egzoz emisyon karakteristiklerine etkileri**  
YEŞİLYURT M. K.  
Uluslararası Muhendislik Arastirma ve Gelistirme Dergisi, vol.12, no.2, pp.397-426, 2020 (Other Refereed National Journals)
- III. **A Study Toward Analyzing the Energy, Exergy and Sustainability Index Based on Performance and Exhaust Emission Characteristics of a Spark-Ignition Engine Fuelled with the Binary Blends of Gasoline and Methanol or Ethanol**  
DOĞAN B., YEŞİLYURT M. K. , EROL D., ÇAKMAK A.  
Uluslararası Muhendislik Arastirma ve Gelistirme Dergisi, vol.12, no.2, pp.529-548, 2020 (Other Refereed National Journals)
- IV. **An Experimental Study On The Performance And Exhaust Emission Characteristics Of A CI Engine Powered By Alcohol/Biodiesel/Diesel Fuel Blends Containing Different Types Of Alcohol (Isopropanol-C3, 1-Butanol-C4, And Isopentanol-C5)**  
YEŞİLYURT M. K.  
Hittite Journal of Science Engineering, vol.7, no.2, pp.135-148, 2020 (Other Refereed National Journals)
- V. **Experimental assessment of a CI engine operating with 1-pentanol/diesel fuel blends**  
YEŞİLYURT M. K. , DOĞAN B., EROL D.  
International Journal of Automotive Science And Technology, vol.4, no.2, pp.70-89, 2020 (Other Refereed National Journals)
- VI. **Determination of biogas potential from animal waste in Turkey: A case study for Yozgat province**  
ERYILMAZ T., YEŞİLYURT M. K. , GÖKDOĞAN O., YUMAK B.  
European Journal of Science and Technology, vol.2, no.4, pp.106-111, 2015 (Other Refereed National Journals)
- VII. **Determination of Energy Use Efficiency of Nigella sativa L. (Black Seed) Oil Production**  
GÖKDOĞAN O., ERYILMAZ T., YEŞİLYURT M. K.  
American-Eurasian J. Agric. Environ. Sci, vol.15, no.1, pp.1-7, 2015 (Refereed Journals of Other Institutions)
- VIII. **Yozgat ilinin tarımsal mekanizasyon durumunun incelenmesi**  
ERYILMAZ T., GÖKDOĞAN O., YEŞİLYURT M. K.  
Türk Tarım ve Doğa Bilimleri Dergisi, vol.1, no.2, pp.262-268, 2014 (Refereed Journals of Other Institutions)
- IX. **Determination of the fuel properties of cottonseed oil methyl ester and its blends with diesel fuel**  
ERYILMAZ T., YEŞİLYURT M. K. , YUMAK H., ARSLAN M., ŞAHİN S.  
International Journal of Automotive Engineering and Technologies, vol.3, no.2, pp.79-90, 2014 (Refereed Journals of Other Institutions)

- X. **The effects of biodiesel on the environment**  
SAVCI S., ERYILMAZ T., YEŞİLYURT M. K.  
Journal of Selçuk University Natural and Applied Science, pp.635-646, 2014 (Refereed Journals of Other Institutions)
- XI. **Fuel Properties of Biodiesel Produced from Balci Variety Oil of Safflower (Carthamus tinctorius L.)**  
ERYILMAZ T., CESUR C., YEŞİLYURT M. K., AYDIN E.  
International Journal of Automotive Engineering and Technologies, vol.3, no.2, pp.74-78, 2014 (Other Refereed National Journals)
- XII. **Yozgat İli Şartlarında Yetiştirilen Aspir Carthamus tinctorius L Dinçer Çeşidinden Üretilen Biyodizelin Yakıt Özelliklerinin Belirlenmesi**  
ERYILMAZ T., YEŞİLYURT M. K., CESUR C., YUMAK H., YURTERİ E., ÇELİK S. A., YILDIZ A. K.  
Gaziosmanpaşa Üniversitesi Ziraat Fakültesi Dergisi (Journal of Agricultural Faculty of Gaziosmanpaşa University), vol.31, no.1, pp.63-72, 2014 (Other Refereed National Journals)
- XIII. **Aspir (Carthamus tinctorius L.), Remzibey-05 Tohum Yağı Metil Esteri: Potansiyel Dizel Motor Uygulamaları için Yakıt Özellikleri**  
ERYILMAZ T., CESUR C., YEŞİLYURT M. K., AYDIN E.  
Türk Tarım ve Doğa Bilimleri Dergisi, vol.1, no.1, pp.85-90, 2014 (Refereed Journals of Other Institutions)
- XIV. **Kırıkkale ilinin tarımsal mekanizasyon düzeyi**  
YEŞİLYURT M. K., ERYILMAZ T., GÖKDOĞAN O., YUMAK B.  
Adnan Menderes Üniversitesi Ziraat Fakültesi Dergisi, vol.10, no.2, pp.7-13, 2013 (Other Refereed National Journals)
- XV. **Nevşehir ilinin tarımsal mekanizasyon özellikleri**  
ERYILMAZ T., GÖKDOĞAN O., YEŞİLYURT M. K., ERCAN K.  
Adnan Menderes Üniversitesi Ziraat Fakültesi Dergisi, vol.10, no.2, pp.1-6, 2013 (Other Refereed National Journals)

## Citations

Total Citations (WOS):620

h-index (WOS):16