

## Doç. Dr. TAYFUN ÖZGÜR

### Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: J-1283-2018

ScopusID: 55245903000

Yoksis Araştırmacı ID: 103517

### Eğitim Bilgileri

Doktora, Çukurova Üniversitesi, Makina Mühendisliği, Makine Mühendisliği, Türkiye 2011 - 2015

Yüksek Lisans, Çukurova Üniversitesi, Makina Mühendisliği, Makine Mühendisliği, Türkiye 2008 - 2011

Lisans, Çukurova Üniversitesi, Mühendislik Mimarlık Fakültesi, Makine Mühendisliği, Türkiye 2003 - 2008

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Sertifika, Kurs ve Eğitimler

Eğitim Yönetimi ve Planlama, AVL BOOST Training Course, AVL Advanced Simulation Technologies Customer Service, 2013

Eğitim Yönetimi ve Planlama, AVL FIRE Training Course, AVL Advanced Simulation Technologies Customer Service, 2013

Eğitim Yönetimi ve Planlama, International Summer School on PEM Fuel Cells Applications and Integration, International Centre For Hydrogen Energy Technologies, 2011

Diğer, Enerji Yöneticisi, Edsm Enerji Denetim Danışmanlık Servis Mühendislik San. ve Tic. Ltd.Şti., 2009

### Yaptığı Tezler

Doktora, Modelling And Simulation of Conventional Turbocharged and Electrically Assisted Turbocharged Automotive Diesel Engine, Çukurova Üniversitesi, Mühendislik Mimarlık Fakültesi, Makine Mühendisliği, 2015

Yüksek Lisans, Investigation of Nanoparticle Additives to the Biodiesel and Diesel Fuels for Improvement of the Performance and Exhaust Emissions in a Compression Ignition Engine, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2011

### Araştırma Alanları

Makina Mühendisliği, Mühendislik ve Teknoloji

## Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Çukurova Üniversitesi, Mühendislik Fakültesi, Otomotiv Mühendisliği, 2018 - Devam Ediyor  
Yrd. Doç. Dr., Çukurova Üniversitesi, Mühendislik Fakültesi, Otomotiv Mühendisliği, 2016 - 2018  
Araştırma Görevlisi, Çukurova Üniversitesi, Mühendislik Fakültesi, Makina Müh., 2008 - 2015

## Akademik İdari Deneyim

Çukurova Üniversitesi, Mühendislik Fakültesi, Otomotiv Mühendisliği Bölümü, 2016 - Devam Ediyor

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Effects of hydrogen addition into liquefied petroleum gas reductant on the activity of Ag-Ti-Cu/Cordierite catalyst for selective catalytic reduction system**  
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- II. **Thermodynamic analysis of a Proton Exchange Membrane fuel cell**  
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- III. **A review: Exergy analysis of PEM and PEM fuel cell based CHP systems**  
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- IV. **Investigation the Fuel Properties of Apricot Kernel Biodiesel and Diesel-Biodiesel Fuel Blends**  
ÖZGÜR C., YAKARYILMAZ A. C., TOSUN E., AKAR M. A., ÖZGÜR T.  
JOURNAL OF BIOTECHNOLOGY, cilt.208, ss.30, 2018 (SCI-Expanded)
- V. **Comparison of the Effects of Reaction Parameters on Cold Flow Properties of Biodiesel**  
ÖZGÜR C., TOSUN E., ÖZGÜR T.  
MAEJO INTERNATIONAL JOURNAL OF SCIENCE AND TECHNOLOGY, cilt.3, sa.3, ss.62-71, 2017 (SCI-Expanded)
- VI. **Performance, Emission And Efficiency Analysis Of A Diesel Engine Operated With Diesel And Diesel-Ethanol (E20) Blend**  
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- VII. **Effect of Mgo Nanoparticule Additives on Performance and Exhaust Emissions of Diesel Fuelled Compression Ignition Engine**  
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- IX. **Diesel engine emissions and performance from blends of citrus sinensis biodiesel and diesel fuel**  
TÜCCAR G., TOSUN E., ÖZGÜR T., AYDIN K.  
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- X. **Effect of diesel-microalgae biodiesel-butanol blends on performance and emissions of diesel engine**  
TÜCCAR G., ÖZGÜR T., AYDIN K.  
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- XI. **Prediction of emissions of a diesel engine fueled with soybean biodiesel using artificial neural networks**  
ÖZGÜR T., TÜCCAR G., ÖZCANLI M., AYDIN K.

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **NO<sub>x</sub> emission reduction through selective catalytic reduction using copper-based Y zeolite catalyst: experimental investigation and characterization**  
Yakaryılmaz A. C., Özgür T.  
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- II. **Comparison of effects of nanofluid utilization (Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub>, TiO<sub>2</sub>) with reference water in automotive radiators on exergetic properties of diesel engines**  
Erkan A., Tuccar G., TOSUN E., ÖZGÜR T.  
SN APPLIED SCIENCES, cilt.3, sa.3, 2021 (ESCI)
- III. **Development of a prototype hydrogen vehicle**  
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International Journal of Automotive Engineering and Technologies, cilt.9, sa.4, ss.190-195, 2020 (Hakemli Dergi)
- IV. **Performance, emission, energetic and exergetic analyses of a compression ignition engine fuelled with sunflower oil methyl esters**  
ÖZGÜR T.  
International Journal of Automotive Engineering and Technologies, cilt.8, sa.2, ss.70-75, 2019 (Hakemli Dergi)
- V. **Comparative analysis of various modelling techniques for emission prediction of diesel engine fueled by diesel fuel with nanoparticle additives**  
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- XI. **PERFORMANCE AND EMISSIONS CHARACTERISTICS OF A DIESEL ENGINE FUELLED WITH ETHANOL ADDITIVE IN DIESEL-SOYBEAN BIODIESEL FUEL BLEND**  
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**XIII. Investigation Effects of Metal Oxide Nanoparticle Additives into Diesel Fuel**

ÖZGÜR T., AYDIN K.

Çukurova Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.25, sa.5, ss.9-18, 2011 (Hakemli Dergi)

**Hakemli Bilimsel Toplantılarda Yayımlanmış Bildiriler**

- I. **Characterization and low-temperature DeNO<sub>x</sub> Performance of Copper-based Y-Zeolite Catalyst for Selective Catalytic Reduction System**  
YAKARYILMAZ A. C., KESKİN A., ÖZGÜR T.  
7th International Mediterranean Science and Engineering Congress (IMSEC 2022), Antalya, Türkiye, 24 Ekim 2022, ss.178
- II. **Recent Advances in NO<sub>x</sub> Abatement Performance of Copper-Based Zeolite Catalysts in Hydrocarbon Selective Catalytic Reduction Systems**  
Yakaryılmaz A. C., Özgür T.  
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Türkiye, 25 - 27 Ekim 2021, ss.654-656
- III. **Assessment of Hydrogen Utilization in Compression Ignition Engines as a Sustainable Fuel: An Overview**  
Tosun E., Özcanlı M., Akar M. A., Özgür T., Serin H.  
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Türkiye, 25 - 27 Ekim 2021, ss.448
- IV. **Performance And Emission Characteristics Of A Diesel Engine Equipped With A Dual Renewable Oxyhydrogen (HHO) Gas Generation System**  
YAKARYILMAZ A. C., ÖZGÜR T., ÖZCANLI M.  
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- V. **A Short Review on Water Emulsified Fuel Effects on Engine Performance and Emission Characteristics**  
Tosun E., Özcanlı M., Özgür T., Akar M. A., Serin H.  
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- VI. **Effects of higher alcohol addition to diesel fuel on emission and performance characteristics of compression ignition engine: An overview**  
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- VII. **Addition of hydrogen into LPG reductant in SCR system with Ag-Ti-Cu/Al<sub>2</sub>O<sub>3</sub> catalyst**  
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- VIII. **Estimation of Diesel Engine Vibration Level by Use of Adaptive Neuro-Fuzzy Inference System (ANFIS)**  
TOSUN E., ULUDAMAR E., ÖZCANLI M., AYDIN K., ÖZGÜR T., ÖZGÜR C.  
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- IX. **Investigation the fuel properties of apricot kernel biodiesel and diesel-biodiesel fuel blends**  
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- X. **Effect of bioethanol blending with gasoline on emissions characteristics with spark plug alteration for SI engine**  
AKAR M. A., BAŞ O., ÖZGÜR T., ÖZCANLI M.

European Biotechnology Congress, Athens, Yunanistan, 26 - 28 Nisan 2018, cilt.280

- XI. **Energy and Exergy Analysis 1kW Self-humidified PEM Fuel Cell**  
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- XII. **Improvement of Operational Characteristics of Sesame Oil in a Compression Ignition Engine with Small Fraction of Hydrogen Enrichment**  
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- XIII. **Energy and Exergy Analysis of 1 kW Self-humidified PEM Fuel Cell**  
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- XIV. **Review: Alternative Design Methodologies of Impact Attenuators**  
Büyük N., ÖZGÜR T., ÖZCANLI M.  
2nd International Mediterranean SCIENCE AND ENGINEERING CONGRESS, 25 - 27 Ekim 2017
- XV. **Effect of MgO Nanoparticulate additives on Performance and Exhaust Emissions of Diesel Fuelled Compression Ignition Engine**  
ÖZGÜR T., TOSUN E., ÖZGÜR C., TÜCCAR G., AYDIN K.  
19th International Conference on Researches in Science Technology, 27 - 28 Temmuz 2017, ss.72-85
- XVI. **A review of exergy analysis of both PEM fuel cells and CHP systems based on PEM fuel cell**  
ÖZGÜR T., YAKARYILMAZ A. C.  
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Türkiye, 25 - 27 Ekim 2017, ss.2295
- XVII. **Thermodynamic Analysis of a Proton Exchange Membrane Fuel Cell**  
ÖZGÜR T., YAKARYILMAZ A. C.  
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Türkiye, 25 - 27 Ekim 2017, ss.2296
- XVIII. **Review : Alternative Design Methodologies of Impact Attenuators**  
BÜYÜK N., ÖZCANLI M., ÖZGÜR T.  
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- XIX. **Identification of Biodiesel Yield and Kinematic Viscosity of Hazelnut Oil Biodiesel According to Operation Parameters**  
ÖZGÜR C., TOSUN E., ÖZGÜR T.  
2nd International Mediterranean Science and Engineering Congress, Adana, Türkiye, 25 - 27 Ekim 2017, ss.1
- XX. **Effect of mgo nanoparticule additives on performance and exhaust emissions of diesel fuelled compression ignition engine**  
ÖZGÜR T., TOSUN E., ÖZGÜR C., TÜCCAR G., AYDIN K.  
19th International Conference on Researches in Science Technology (ICRST), Barcelona, İspanya, 27 - 28 Temmuz 2017, ss.66-67
- XXI. **COMPARISON OF THE EFFECTS OF REACTION PARAMETERS ON COLD FLOW PROPERTIES OF BIODIESEL**  
ÖZGÜR C., TOSUN E., ÖZGÜR T.  
19th International Conference on Researches in Science & Technology (ICRST), Barcelona, İspanya, 27 - 28 Temmuz 2017, ss.1
- XXII. **Performance, Emission and Efficiency Analysis of a Diesel Engine Operated with Diesel and Diesel-Ethanol (E20) Blend**  
ÖZGÜR T., TOSUN E., ÖZGÜR C., TÜCCAR G., AYDIN K.  
19th International Conference on Researches in Science & Technology (ICRST), Barcelona, İspanya, 27 - 28 Temmuz 2017, ss.1-9
- XXIII. **Effect of MgO Nanoparticule Additives on Performance and Exhaust Emissions of Diesel Fuelled Compression Ignition Engine**

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**XXIV. Usage of Thermoelectric Generator for Recovery of Waste Exhaust**

Hasan E., AYDIN K., TOSUN E., ÖZGÜR C., ÖZGÜR T.

1st International Mediterranean Science and Engineering Congress (IMSEC 2016), 26 - 29 Ekim 2016

**XXV. A study of impacts of reaction parameters on waste oil biodiesel**

ÖZGÜR C., TOSUN E., ÖZGÜR T.

1st International Mediterranean Science and Engineering Congress (IMSEC 2016), 26 - 29 Ekim 2016

**XXVI. A study of impacts of reaction parameters on waste oil biodiesel production**

ÖZGÜR C., TOSUN E., ÖZGÜR T.

1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Türkiye, 26 - 28 Ekim 2016, ss.3099-3103

**XXVII. Comparative analysis of various modelling techniques for emission prediction of diesel engine fueled by diesel fuel with nanoparticle additives**

TOSUN E., ÖZGÜR T., ÖZGÜR C., ÖZCANLI M., SERİN H., AYDIN K.

1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Türkiye, 26 - 28 Ekim 2016, ss.1307-1316

**XXVIII. Comparative analysis of various modelling techniques for emission prediction of diesel engine fueled by diesel fuel with nanoparticle additives**

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1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Türkiye, 26 - 28 Ekim 2016, ss.1307-1316

**XXIX. Comparative analysis of various modelling techniques for emission prediction of diesel engine fueled by diesel fuel with nanoparticle additives**

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**XXXI. Usage of Thermoelectric Generator for Recovery of Waste Exhaust Heat in Internal Combustion Engines**

ELBAŞI H., AYDIN K., TOSUN E., ÖZGÜR C., ÖZGÜR T.

1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Türkiye, 26 - 28 Ekim 2016, ss.3546-3552

**XXXII. Theoretical determination of maximum biodiesel blend ratios according to kinematic viscosity values**

ÖZCANLI M., DEDE G., ÖZGÜR C., ÖZGÜR T.

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**XXXIII. Performance, Emission and Thermodynamic Analysis of a Diesel Engine Fueled with Diesel and Canola Biodiesel**

TOSUN E., ÖZCANLI M., HÜRDOĞAN E., ÖZGÜR T., AYDIN K.

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**XXXIV. Prediction of Carbon Monoxide Emission of a Diesel Engine Fueled with Peanut Biodiesel**

TOSUN E., ÖZGÜR T., AYDIN K., ÖZCANLI M., SERİN H.

AVTECH '15 / III. Automotive and Vehicle Technologies Conference, İstanbul, Türkiye, 23 - 24 Kasım 2015, ss.158-166

**XXXV. Performance and Emissions Characteristics of a Diesel Engine Fuelled With Ethanol Additive in**

### **Diesel-Soybean Biodiesel Fuel Blend**

ULUDAMAR E., ÖZGÜR C., ÖZGÜR T., AYDIN K.

The MacroJournals Conference on Medicine, Science, and Technology, Dubrovnik, Hırvatistan, 3 - 04 Ağustos 2015, cilt.3, sa.1, ss.15-23

- XXXVI. **Determination of the Impacts of Nanoparticule Additives into diesel fuel on NOx Emmision Characteristics of a Heavy Duty Diesel Engine**  
ÖZGÜR C., ÖZGÜR T., ÖZCANLI M., AYDIN K.  
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- XXXVII. **Analysis Of Engine Performance Parameters Of Electrically Assisted Turbocharged Diesel Engine**  
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TOSUN E., ÖZGÜR T., TÜCCAR G., ÖZGÜR C., AYDIN K., ÖZCANLI M.  
International Conference on Automotive and Vehicle Technologies 2014, İstanbul, Türkiye, 16 - 18 Ekim 2014, ss.243-251
- XXXIX. **Numerical Studies of Engine Performance, Emission and Combustion Characteristics of a Diesel Engine Fuelled with Hydrogen Blends**  
ÖZGÜR T., TOSUN E., ÖZGÜR C., TÜCCAR G., AYDIN K.  
The 5th International Conference on Mechanical and Aerospace Engineering (ICMAE 2014), Madrid, İspanya, 18 - 19 Temmuz 2014, ss.1-5
- XL. **Investigation of Engine Performance and Emission Characteristics of SI Engine Fuelled with Ethanol Blends by Numerical Simulation**  
ÖZGÜR C., TOSUN E., ÖZGÜR T., TÜCCAR G., AYDIN K.  
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- XLI. **Investigation of Effects of Inlet Boundary Conditions on the Flow Behaviour in a Diesel Injector**  
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- XLII. **Numerical Studies of Engine Performance Emission and Combustion Characteristics of a Diesel engine Fueled with Hydrogen Blends**  
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- XLIII. **Investigation of Engine Performance and emission Characteristics of SI engine Fueled with Ethanol Blends by Numerical Simulation**  
ÖZGÜR C., TOSUN E., ÖZGÜR T., TÜCCAR G., AYDIN K.  
The 5. International Conference on Mechanical and Aerospace Engineering, 18 - 19 Temmuz 2014
- XLIV. **Experimental Investigation of Engine Performance and Emission Characteristics of a Diesel Engine Using Blends Containing Microalgea Biodiesel, n-butanol and diesel fuel**  
Tüccar G., ÖZGÜR T., YAŞAR A., AYDIN K.  
Proceedings of 2014 5th International Conference on Environmental Science and Technology, Gdansk, Polonya, 14 - 16 Mayıs 2014
- XLV. **Experimental Investigation of Engine Performance and Emission Characteristics of a Diesel Engine Using Blends Containing Microalgae Biodiesel, n-Butanol and Diesel Fuel**  
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- XLVI. **Numerical studies of engine performance, emission and combustion characteristics of a diesel engine fuelled with hydrogen blends**

- ÖZGÜR T., TOSUN E., ÖZGÜR C., Tüccar G., AYDIN K.  
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- XLVII. **Investigation of effects of inlet boundary conditions on the flow behaviour in a diesel injector**  
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- XLVIII. **Investigation of engine performance and emission characteristics of SI engine fuelled with ethanol blends by numerical simulation**  
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- XLIX. **Improvement of Microalgae Biodiesel with Ricinus Communis Oil Biodiesel Addition**  
TÜCCAR G., ÖZGÜR T., ÖZCANLI M., AYDIN K.  
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- L. **Preparation of fuels by cracking of different plastics and their blends with diesel fuel**  
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