

Arş.Gör. Özgün BALCI

Kişisel Bilgiler

İş Telefonu: [+90 212 383 2890](tel:+902123832890)

E-posta: obalci@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/obalci>

Posta Adresi: YTÜ Yıldız Kampüsü, Mak. Müh. Böl. E1 Blok No: 32, 34349 Beşiktaş/İSTANBUL

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-8560-1782

Yoksis Araştırmacı ID: 226848

Eğitim Bilgileri

Doktora, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, Türkiye 2015 - 2022

Yüksek Lisans, İstanbul Teknik Üniversitesi, Makine Fakültesi, Otomotiv A.B.D., Türkiye 2012 - 2015

Lisans, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, Türkiye 2007 - 2012

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Karayolu Taşıtları Fren Sistemlerinde Sürtünme Kaynaklı Yüksek Frekanslı Gürültü ve Titreşim Oluşum Mekanizmasının Deneysel Verilerle Matematiksel Olarak Modellenmesi, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2022

Yüksek Lisans, Modelling Control and Simulation of a Powertrain with Dual Clutch Transmission, İstanbul Teknik Üniversitesi, Makine Mühendisliği, Otomotiv A.B.D., 2015

Araştırma Alanları

Makina Mühendisliği, Taşıt Sistemleri Dinamiği, Mekanik Titreşimler, Yakıtlar ve Yanma, İçten Yanmalı Motorlar, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Araştırma Görevlisi, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2015 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. Comparison and investigation of inverse identification techniques for the material properties of a brake disc through experimental and numerical modal analysis

BALCI Ö., Yavuz A., ÖZKAN M., Sen O. T.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, cilt.236, sa.20, ss.10395-10412, 2022 (SCI-Expanded)

- II. **EFFECT OF ETHANOL-GASOLINE MIXTURES ON PERFORMANCE AND EMISSIONS OF LIGHT PASSENGER CAR ON DIFFERENT DRIVING CYCLES**
KARAGÖZ Y., BALCI Ö., Gurbuz H.
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, cilt.21, sa.5, ss.839-855, 2022 (SCI-Expanded)
- III. **Performance and emissions of spark-ignition engines fuelled with petrol and methane**
KARAGÖZ Y., BALCI Ö., GEZER O., KÖTEN H., İŞİN Ö.
PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-ENERGY, cilt.174, sa.4, ss.156-169, 2021 (SCI-Expanded)
- IV. **Numerical and experimental investigation of fuel consumption and CO2 emission performance for a parallel hybrid vehicle**
Balci Ö., Karagöz Y., Gezer O., Kale S., Koten H., Pusat S., Yuksek L.
ALEXANDRIA ENGINEERING JOURNAL, cilt.60, sa.4, ss.3649-3667, 2021 (SCI-Expanded)
- V. **Fuel consumption and emission comparison of conventional and hydrogen feed vehicles**
BALCI Ö., Karagöz Y., KALE S., Damar S., ATTAR A., Köten H., DALKILIÇ A. S., Wongwises S.
International Journal of Hydrogen Energy, cilt.46, ss.16250-16266, 2021 (SCI-Expanded)
- VI. **Cycle-skipping strategy with intake air cut off for natural gas fueled Si engine**
Tunçer E., SANDALCI T., PUSAT Ş., BALCI Ö., Karagöz Y.
Science Progress, cilt.104, sa.3, 2021 (SCI-Expanded)
- VII. **Effect of different levels of ethanol addition on performance, emission, and combustion characteristics of a gasoline engine**
Köten H., Karagöz Y., Balci Ö.
ADVANCES IN MECHANICAL ENGINEERING, cilt.12, 2020 (SCI-Expanded)
- VIII. **Performance analysis of a hybrid lightweight vehicle with downsized engine**
Karagöz Y., Balci Ö., Gezer O., Kale S., Köten H.
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, cilt.42, ss.1513-1525, 2020 (SCI-Expanded)
- IX. **Investigation of hydrogen usage on combustion characteristics and emissions of a spark ignition engine**
Karagöz Y., Balci Ö., Köten H.
International Journal of Hydrogen Energy, cilt.44, ss.14243-14256, 2019 (SCI-Expanded)
- X. **Effect of hydrogen addition using on-board alkaline electrolyser on SI engine emissions and combustion**
Karagöz Y., Balci O., Orak E., Habib M. S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.43, ss.11275-11285, 2018 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Comparison of Performance Data of Electric Vehicle and Internal Combustion Engine-Powered Vehicle**
Karagöz Y., Balci Ö., Pusat Ş.
International Conference on Progresses in Automotive Technologies 2020, İstanbul, Türkiye, 28 - 29 Aralık 2020, ss.1-7
- II. **Cycle Skipping Strategies For Natural Gas SI Engine**
Tunçer E., Sandalcı T., Pusat Ş., Balci Ö., Karagöz Y.
International Conference on Progresses in Automotive Technologies 2020, İstanbul, Türkiye, 28 - 29 Aralık 2020, ss.1-7
- III. **Investigation on Effect of A Micro Pilot Injection Method on Performance and Emissions in Diesel-**

LPG Dual Fuelled Engine

KÖTEN H., KARAGÖZ Y., BALCI Ö., GEZER O., KALE S.

2ND INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES JUNE 27-29, 2019 ISTANBUL TURKEY,
27 - 29 Haziran 2019

IV. Comparison of emission and fuel consumption values of a gasoline fuelled and gasoline hydrogen fuelled SI engine powered light duty vehicle in new european driving cycle

Karagöz Y., Attar A., Balci Ö., Köten H.

4th International Hydrogen Technologies Congress, Edirne, Türkiye, 20 - 23 Haziran 2019, sa.153, ss.294-297

V. On Vehicle Comparison of Gasoline Fueled SI Engine, Hydrogen Fueled SI Engine and Hydrogen Fueled SI Engine Microbial Fuel Cell Powered Systems

Attar A., Karagöz Y., Balci Ö., Kale S., Köten H.

4th International Hydrogen Technologies Congress, Edirne, Türkiye, 20 - 23 Haziran 2019, sa.154, ss.298-301

VI. Effect of Different Levels of Ethanol Addition on Performance, Emission and Combustion

Characteristics of A Gasoline Engine

KÖTEN H., KARAGÖZ Y., BALCI Ö.

ECRES 2018 (THE 6TH EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS Istanbul/Turkey 25-27 June 2018), İstanbul, Türkiye, 25 Haziran 2018, ss.674-685

VII. Investigation of Hydrogen Usage on Combustion Characteristics and Emissions of A Spark Ignition Engine

KARAGÖZ Y., BALCI Ö., KÖTEN H.

ECRES 2018 (THE 6TH EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS Istanbul/Turkey 25-27 June 2018), İstanbul, Türkiye, 25 Haziran 2018, ss.662-673

Desteklenen Projeler

ÖZKAN M., BALCI Ö., Yükseköğretim Kurumları Destekli Proje, Karayolu Taşıtları Fren Sistemlerinde Sürtünme Kaynaklı Yüksek Frekanslı Gürültü ve Titreşim Oluşum Mekanizmasının Deneysel Verilerle Matematiksel Olarak Modellenmesi, 2020 - 2023

Bilimsel Hakemlikler

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART D: JOURNAL OF AUTOMOBILE ENGINEERING, SCI-E Kapsamındaki Dergi, Haziran 2022

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART D: JOURNAL OF AUTOMOBILE ENGINEERING, SCI-E Kapsamındaki Dergi, Mart 2022

SCIENTIA IRANICA INTERNATIONAL JOURNAL OF SCIENCE & TECHNOLOGY, SCI-E Kapsamındaki Dergi, Eylül 2021

Propulsion and Power Research, SCI-E Kapsamındaki Dergi, Haziran 2021

Journal of Thermal Engineering, ESCI Kapsamındaki Dergi, Eylül 2017

Metrikler

Yayın: 17

Atıf (WoS): 45

Atıf (Scopus): 61

H-İndeks (WoS): 3

H-İndeks (Scopus): 4