

Prof. Hakan Özcan

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAG-6973-2019

ScopusID: 22980705400

Yoksis Researcher ID: 20904

Education Information

Doctorate, Gaziantep University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Turkey 1999 - 2005

Postgraduate, Gaziantep University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 1997 - 1999

Undergraduate, Gaziantep University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1992 - 1997

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Effect of water injection on the performance of LPG fuelled spark ignition engine, Gaziantep University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), 2005

Postgraduate, Investigation of natural convection heat transfer over inclined isothermal plate, Gaziantep University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 1999

Research Areas

Mechanical Engineering, Energy, Alternative Energy Resources, Solar energy, Thermodynamics, Fuels and Combustion, Internal Combustion Engines, Thermal machines

Academic Titles / Tasks

Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2020 - Continues

Associate Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2012 - 2020

Assistant Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2006 - 2012

Research Assistant, Gaziantep University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1997 - 2006

Academic and Administrative Experience

Ondokuz Mayıs University, 2012 - Continues
Ondokuz Mayıs University, 2012 - 2020
Ondokuz Mayıs University, 2012 - 2020
Ondokuz Mayıs University, 2012 - 2020
Ondokuz Mayıs University, 2010 - 2011
Ondokuz Mayıs University, 2010 - 2010

Courses

Doctorate

MMB718-GAZ TÜRBİNLERİ VE TERMODİNAMİĞİ (BAHAR), Doctorate, 2019 - 2020
MMB 724-BİLİMSEL ARAŞTIRMA YÖNTEMLERİ VE ETİK (BAHAR), Doctorate, 2019 - 2020, 2017 - 2018, 2015 - 2016
MMB 717-MOTOR TERMODİNAMİĞİ (GÜZ), Doctorate, 2019 - 2020, 2014 - 2015
MMB 912-UZMANLIK ALAN DERSİ (BAHAR), Doctorate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
MMB 911-UZMANLIK ALAN DERSİ (GÜZ), Doctorate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
MMB 724-BİLİMSEL ARAŞTIRMA YÖNTEMLERİ VE ETİK (GÜZ), Doctorate, 2016 - 2017
MMB 709-OPTİMİZASYON YÖNTEMLERİ (BAHAR), Doctorate, 2016 - 2017
MMB 708-BİYOENERJİ TEKNOLOJİLERİ (GÜZ), Doctorate, 2015 - 2016
MMB 717-MOTOR TERMODİNAMİĞİ (BAHAR), Doctorate, 2014 - 2015
Yakma Sist. Emisyon Kont., Doctorate, 2012 - 2013

Postgraduate

MMB 617-GÜNEŞ ENERJİSİ UYGULAMALARI (GÜZ), Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
MMB 811-UZMANLIK ALAN DERSİ (GÜZ), Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
MMB 812-UZMANLIK ALAN DERSİ (BAHAR), Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
MMB 637-BİLİMSEL ARAŞ. YÖNTEMLERİ VE ETİK (BAHAR), Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017
MMB 637-BİLİMSEL ARAŞTIRMA YÖNTEMLERİ VE ETİK (GÜZ), Postgraduate, 2018 - 2019
MMB 724-BİLİMSEL ARAŞTIRMA YÖNTEMLERİ VE ETİK (GÜZ), Postgraduate, 2017 - 2018
MMB 637-BİLİMSEL ARAŞ. YÖNTEMLERİ VE ETİK (GÜZ), Postgraduate, 2017 - 2018
MMB 617- GÜNEŞ ENERJİSİ UYGULAMALARI (BAHAR), Postgraduate, 2017 - 2018
MMB 637-BİLİMSEL ARAŞ. TÜNTEMLERİ VE ETİK (GÜZ), Postgraduate, 2016 - 2017
MMB 601-İLERİ TERMODİNAMİK (GÜZ), Postgraduate, 2015 - 2016, 2013 - 2014
MMB 637-BİLİMSEL ARAŞTIRMA YÖNTEMLERİ VE ETİK (BAHAR), Postgraduate, 2015 - 2016
MMB 612-TAŞIT MOTORLARINDA ARAŞ. VE DENEY TEKNİKLERİ (BAHAR), Postgraduate, 2014 - 2015
MMB 616-ALTERNATİF ENERJİ KAYNAKLARI (GÜZ), Postgraduate, 2014 - 2015
MMB 612-Taşı Motorlarında Araş. ve Deneysel Teknikleri (Bahar), Postgraduate, 2013 - 2014
İçten Yan. Mot. Hes. ve Geliş., Postgraduate, 2012 - 2013
İleri termodinamik, Postgraduate, 2011 - 2012
İçten Yanmalı Mot. İçin Alt Yakıtlar, Postgraduate, 2011 - 2012
İÇTEN YANMALI MOTORLARIN HESABI VE GELİŞTİRİLMESİ , Postgraduate, 2010 - 2011, 2009 - 2010
TAŞIT MOTORLARINDA ARAŞTIRMA VE DENEY TEKNİKLERİ , Postgraduate, 2010 - 2011
İLERİ TERMODİNAMİK-I , Postgraduate, 2010 - 2011, 2009 - 2010
İLERİ ISI VE KÜTLE TRANSFERİ, Postgraduate, 2009 - 2010
İÇTEN YANMALI MOTORLAR İÇİN ALTERNATİF YAKITLAR , Postgraduate, 2009 - 2010
İLERİ GAZ DİNAMİĞİ, Postgraduate, 2009 - 2010

Undergraduate

MAK 310-İÇTEN YANMALI MOTORLAR (BAHAR), Undergraduate, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2015 - 2016,

2014 - 2015, 2013 - 2014

MAK 436-MOTORLU TAŞITLAR TEKNİĞİ (BAHAR), Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
MAK 203-TERMODİNAMİK-I (GÜZ), Undergraduate, 2019 - 2020, 2014 - 2015
MAK 410-BİTİRME PROJESİ (BAHAR), Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
MAK 302-MAKİNA MÜH. LABORATUVARI I (BAHAR), Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
MAK 307-ÖLÇME TEKNİĞİ (GÜZ), Undergraduate, 2018 - 2019, 2017 - 2018, 2013 - 2014
MAK 457-AERODİNAMİK (GÜZ), Undergraduate, 2018 - 2019, 2017 - 2018
MAK 405-MAKİNA MÜH. LABORATUVARI II (GÜZ), Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
MAK 401-MAKİNA PROJE (GÜZ), Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
MAK 452-GÜNEŞ ENERJİSİ (BAHAR), Undergraduate, 2017 - 2018, 2015 - 2016, 2013 - 2014
MM310-İÇTEN YANMALI MOTORLAR (BAHAR), Undergraduate, 2017 - 2018
MM307-ÖLÇME TEKNİĞİ (GÜZ), Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
MMB 203-TERMODİNAMİK-I (GÜZ), Undergraduate, 2015 - 2016
MAK 201-Mühendislik Matematiği I (Güz), Undergraduate, 2013 - 2014
ÖLÇME TEKNİĞİ, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
OTOMATİK KONTROL, Undergraduate, 2012 - 2013, 2011 - 2012
MAKİNA PROJE, Undergraduate, 2012 - 2013, 2011 - 2012
TERMODİNAMİK I, Undergraduate, 2012 - 2013
GÜNEŞ ENERJİSİ, Undergraduate, 2011 - 2012
BİLGİSAYAR DESTEKLİ ÇİZİM, Undergraduate, 2011 - 2012
İÇTEN YANMALI MOTORLAR, Undergraduate, 2011 - 2012, 2010 - 2011
ALTERNATİF ENERJİ KAYNAKLARI , Undergraduate, 2011 - 2012, 2010 - 2011
MAKİNA MÜH. LABORATUVARI I, Undergraduate, 2011 - 2012
BİTİRME ÇALIŞMASI, Undergraduate, 2011 - 2012
BİLGİSAYARA GİRİŞ, Undergraduate, 2011 - 2012
BİLGİSAYAR DESTEKLİ TEKNİK RESİM, Undergraduate, 2010 - 2011
MÜHENDİSLİK VE ETİK, Undergraduate, 2010 - 2011
AKIŞKANLAR MEKANİĞİ I, Undergraduate, 2010 - 2011
MODEL UCAK YAPIMI, Undergraduate, 2010 - 2011, 2009 - 2010
TEKNİK ÇİZİM, Undergraduate, 2010 - 2011
TERMODİNAMİK-I , Undergraduate, 2009 - 2010
TERMODİNAMİK-II, Undergraduate, 2009 - 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Catalytic co-pyrolysis of industrial hemp stalk and glycerol with HZSM-5 and dolomite: product yields and bio-oil characteristics**
Girişen A. R., Özcan H.
Biomass Conversion and Biorefinery, 2024 (SCI-Expanded)
- II. **Experimental research on ethyl acetate as novel oxygenated fuel in the spark-ignition (SI) engine**
Cakmak A., Kapusuz M., ÖZCAN H.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.45, no.1, pp.178-193, 2023 (SCI-Expanded)
- III. **Application of oxygen enrichment and adiabatic humidification to suction air for reducing exhaust emissions in a gasoline engine**
Kapusuz M., Cakmak A., Özcan H.

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.45, no.1, pp.194-211, 2023 (SCI-Expanded)

- IV. **Performance investigation of utilizing nanoferrofluid as a working solution in a diffusion absorption refrigeration system under an external magnetic field effect**
Mehyo M., Özbaş E., Özcan H.
Heat and Mass Transfer/Waerme- und Stoffuebertragung, vol.58, no.12, pp.2107-2128, 2022 (SCI-Expanded)
- V. **Analysis of combustion and emissions characteristics of a DI diesel engine fuelled with diesel/biodiesel/glycerol tert-butyl ethers mixture by altering compression ratio and injection timing**
Cakmak A., Özcan H.
FUEL, vol.315, 2022 (SCI-Expanded)
- VI. **The effects of photocatalytic activity with titanium dioxide on the performance and emission characteristics of SI engine**
Kapusuz M., Gürbüz M., Özcan H.
APPLIED THERMAL ENGINEERING, vol.188, 2021 (SCI-Expanded)
- VII. **INVESTIGATION OF THE USABILITY OF GLYCEROL ETHERS AS SECOND-GENERATION BIOFUEL IN DIESEL ENGINE**
Cakmak A., Özcan H.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.41, no.2, pp.191-204, 2021 (SCI-Expanded)
- VIII. **Determination of the Optimum Stability Conditions in Al₂O₃ Nanofluids with Artificial Neural Networks**
Şahin F., Kapusuz M., Namlı L., ÖZCAN H.
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.41, no.5, 2020 (SCI-Expanded)
- IX. **Energy and exergy analyses of Al₂O₃-diesel-biodiesel blends in a diesel engine**
ÖZCAN H.
INTERNATIONAL JOURNAL OF EXERGY, vol.28, no.1, pp.29-45, 2019 (SCI-Expanded)
- X. **Experimental analysis on the performance and emissions of diesel/butanol/biodiesel blended fuels in a flame tube boiler**
Kilic G., Sungur B., Topaloglu B., ÖZCAN H.
APPLIED THERMAL ENGINEERING, vol.130, pp.195-202, 2018 (SCI-Expanded)
- XI. **Combustion performance and emissions of diesel/biodiesel blended fuels in a residential reverse flame boiler**
Sungur B., Topaloglu B., Namlı L., ÖZCAN H., Özbey M.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.13, no.2, pp.183-196, 2017 (SCI-Expanded)
- XII. **Effects of nanoparticle additives to diesel on the combustion performance and emissions of a flame tube boiler**
Sungur B., Topaloglu B., ÖZCAN H.
ENERGY, vol.113, pp.44-51, 2016 (SCI-Expanded)
- XIII. **Aluminum oxide and copper oxide biodiesel fuel properties and usage in a compression ignition engine**
Gumus S., ÖZCAN H., Özbey M., Topaloglu B.
FUEL, vol.163, pp.80-87, 2016 (SCI-Expanded)
- XIV. **Research of performance on a spark ignition engine fueled by alcohol-gasoline blends using artificial neural networks**
Kapusuz M., ÖZCAN H., Yamin J. A.
APPLIED THERMAL ENGINEERING, vol.91, pp.525-534, 2015 (SCI-Expanded)
- XV. **Prediction of thermal stability, crystallinity and thermomechanical properties of poly(ethylene oxide)/clay nanocomposites with artificial neural networks**
Burgaz E., Yazıcı M., Kapusuz M., Alışır S., Özcan H.
THERMOCHIMICA ACTA, vol.575, pp.159-166, 2014 (SCI-Expanded)

- XVI. **Second law analysis of a spark ignition engine under high values of ignition retard**
ÖZCAN H., Özbey M., Soylemez M. S., Topaloglu B.
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.58, no.1, pp.79-92, 2012 (SCI-Expanded)
- XVII. **The effects of heat transfer on the exergy efficiency of an air-standard otto cycle**
ÖZCAN H.
HEAT AND MASS TRANSFER, vol.47, no.5, pp.571-577, 2011 (SCI-Expanded)
- XVIII. **Second-law analysis of an LPG-powered 4-stroke SI engine under variable stroke length and compression ratio**
Yamin J. A. A., ÖZCAN H.
INTERNATIONAL JOURNAL OF EXERGY, vol.8, no.2, pp.113-127, 2011 (SCI-Expanded)
- XIX. **Hydrogen enrichment effects on the second law analysis of a lean burn natural gas engine**
ÖZCAN H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.3, pp.1443-1452, 2010 (SCI-Expanded)
- XX. **Performance and emission characteristics of LPG powered four stroke SI engine under variable stroke length and compression ratio**
ÖZCAN H., Yamin J. A. A.
ENERGY CONVERSION AND MANAGEMENT, vol.49, no.5, pp.1193-1201, 2008 (SCI-Expanded)
- XXI. **Investigation of purified sulfate turpentine on engine performance and exhaust emission**
YUMRUTAŞ R., ALMA M. H., ÖZCAN H., Kaska O.
FUEL, vol.87, no.2, pp.252-259, 2008 (SCI-Expanded)
- XXII. **Thermal balance of a LPG fuelled, four stroke SI engine with water addition**
ÖZCAN H., Söylemez M.
Energy Conversion and Management, vol.47, no.5, pp.570-581, 2006 (SCI-Expanded)
- XXIII. **Experimental investigation of the effects of water addition on the exhaust emissions of a naturally aspirated, liquefied-petroleum-gas-fueled engine**
ÖZCAN H., Söylemez M.
Energy and Fuels, vol.19, no.4, pp.1468-1472, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **Hidroforbik Kaplamanın Kanat Profillerinin Aerodinamik Parametrelerine Etkisinin Deneysel İncelenmesi**
ŞAHİN F., İSMAİLOV İ., ÖZCAN H.
Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.15, no.1, 2023 (Peer-Reviewed Journal)
- II. **FOTOVOLTAİK PANEL TEMİZLİĞİNDE YÜZEY AKUSTİK DALGALARI KULLANIMININ FOTOVOLTAİK PANEL PERFORMANSINA ETKİLERİNİN İNCELENMESİ**
KARA G., ÖZCAN H., ERİŞGİN D.
OMU Journal of Engineering Sciences and Technology, vol.2, no.2, pp.137-154, 2022 (Peer-Reviewed Journal)
- III. **Bor oksit nanoparçacıklarının dizel yakıt katkısı olarak kullanılabilirliğinin araştırılması**
ÇAKMAK A., ÖZCAN H.
BOR DERGİSİ, vol.7, no.1, pp.420-429, 2022 (Peer-Reviewed Journal)
- IV. **A study on the estimation of fuel consumption and emitted emissions from vehicles in Turkey until 2050**
Girişen A. R., Özcan H., Çakmak A., Genez B.
International Journal of Automotive Engineering and Technologies, vol.10, no.3, pp.118-125, 2021 (Peer-Reviewed Journal)
- V. **Design and simulation of a 1-GWp solar photovoltaic power station in Sudan**
Abdalla S. N. M., ÖZCAN H.
CLEAN ENERGY, vol.5, no.1, pp.57-78, 2021 (ESCI)
- VI. **Effects of Hydroxy Gas Addition on the Performance and Emission Characteristics of Liquefied**

Petroleum Gas-Powered Lean-Operated Spark-Ignition Engine

Cakmak A., Girisen A. R., ÖZCAN H.

SAE INTERNATIONAL JOURNAL OF FUELS AND LUBRICANTS, vol.14, no.1, pp.41-54, 2021 (ESCI)

- VII. **Thermophysical Properties of Nanoferrofluid (Fe₃O₄-Acetone/ZnBr₂) as a Working Fluid for Use in Absorption Refrigeration Applications**
Mehyo M., Özcan H.
INTERNATIONAL JOURNAL OF THERMODYNAMICS, vol.24, no.4, pp.103-109, 2021 (ESCI)
- VIII. **Biofuel additive production from glycerol and determination of its effect on some fuel properties**
Cakmak A., ÖZCAN H.
SN APPLIED SCIENCES, vol.2, no.10, 2020 (ESCI)
- IX. **Evaluation of glycerol tert-butyl ethers as renewable fuel additive**
ÇAKMAK A., ÖZCAN H.
International Journal of Automotive Engineering and Technologies, vol.9, no.2, pp.66-75, 2020 (Peer-Reviewed Journal)
- X. **Thermal and Economic Study of a Combined Power and Cooling Cycle**
Mehyo M., ÖZCAN H.
European Mechanical Science, vol.4, no.1, pp.30-36, 2020 (Peer-Reviewed Journal)
- XI. **Oxygenated Fuel Additives to Gasoline**
Cakmak A., ÖZCAN H.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.21, no.4, pp.831-840, 2018 (ESCI)
- XII. **Comparative exergy analysis of oxygenated fuel additives in spark-ignition (SI) engine**
ÖZCAN H., ÇAKMAK A.
International Journal of Automotive Engineering and Technologies, vol.3, no.7, pp.124-133, 2018 (Peer-Reviewed Journal)
- XIII. **Comparative Exergy Analysis of Fuel Additives Containing Oxygen and HC based in a Spark-Ignition (SI) engine**
ÖZCAN H., ÇAKMAK A.
International Journal of Automotive Engineering and Technologies, vol.7, no.3, pp.124-133, 2018 (Peer-Reviewed Journal)
- XIV. **Oxygenated Fuel Additives to Gasoline**
ÇAKMAK A., ÖZCAN H.
Politeknik Dergisi, vol.21, no.4, pp.831-840, 2018 (Peer-Reviewed Journal)
- XV. **Numerical analysis of the effect of conical turbulators to heat transfer performance of a liquid fuelled boiler**
SUNGUR B., TOPALOĞLU B., ÖZCAN H., NAMLI L.
Research on Engineering Structures and Materials, vol.4, no.2, pp.127-136, 2018 (Peer-Reviewed Journal)
- XVI. **The Effects of Ethanol-Gasoline, Methanol-Gasoline and Ethanol- Methanol-Gasoline Blends on Engine Performance, Combustion Characteristics, and Exhaust Emissions**
ÖZCAN H., ÖZBEY M., GÜRSEL O.
The International Journal of Engineering and Science, vol.6, no.7, pp.70-82, 2018 (Peer-Reviewed Journal)
- XVII. **Numerical Investigation of the Effects of Intake Port Geometry on In-Cylinder Motion and Combustion in Diesel Engine**
KAPLAN M., ÖZBEY M., ÖZCAN H.
The International Journal of Engineering and Science, vol.6, no.7, pp.16-26, 2018 (Peer-Reviewed Journal)
- XVIII. **Effects of Methyl Acetate as Oxygenated Fuel Blending on Performance and Emissions of SI Engine**
Cakmak A., Kapusuz M., Ganiyev O., ÖZCAN H.
ENVIRONMENTAL AND CLIMATE TECHNOLOGIES, vol.22, no.1, pp.55-68, 2018 (ESCI)
- XIX. **Numerical Investigation of the Effect of Different Conical Turbulators on the Performance of a Liquid Fuelled Boiler**
SUNGUR B., TOPALOĞLU B., ÖZCAN H., NAMLI L.
Chemical and Process Engineering Research, vol.42, pp.23-31, 2016 (Peer-Reviewed Journal)

- XX. **Numerical Investigation of the Effect of Different Conical Turbulators on the Performance of a Liquid Fuelled Boiler**
SUNGUR B., TOPALOĞLU B., ÖZCAN H.
Chemical and Process Engineering Research, vol.42, no.3, pp.23-31, 2016 (Peer-Reviewed Journal)
- XXI. **Numerical Investigation of Turbulent Hydrogen MethaneNitrogen Non Premixed Jet Flame**
Sungur B., Topaloğlu B., Özcan H., Namlı L.
Journal of Energy Technologies and Policy, vol.6, no.2, pp.37-47, 2016 (Peer-Reviewed Journal)
- XXII. **Water Injection Effects on the Performance of Four-Cylinder, LPG Fuelled SI Engine**
SÖYLEMEZ M. S., ÖZCAN H.
JOURNAL OF BACTERIOLOGY & PARASITOLOGY, vol.1, no.01, pp.1-3, 2013 (Peer-Reviewed Journal)

Books

- I. **BİYOKÜTLE PİROLİZİ İLE BİYO-YAĞ ÜRETİMİ: DEĞERLENDİRME VE ÖNERİLER**
GİRİŞEN A. R., KARA G., ÖZCAN H.
in: Mühendislik Bilimlerinde Güncel Araştırmalar: Araştırma, Metodoloji ve Yenilik, KAVAK DUYGU, KILIÇER ALİ,
Editor, Livre de Lyon, Lyon, pp.1-27, 2024
- II. **BİYOKÜTLE PİROLİZİNDE KULLANILAN REAKTÖR TÜRLERİ**
KARA G., GİRİŞEN A. R., ÖZCAN H.
in: Mühendislik Bilimlerinde Güncel Araştırmalar: Araştırma, Metodoloji ve Yenilik, KAVAK DUYGU, KILIÇER ALİ,
Editor, Livre de Lyon, Lyon, pp.29-48, 2024
- III. **BİYOKÜTLE VE PLASTİK KOPİROLİZİ**
GİRİŞEN A. R., KARA G., ÖZCAN H.
in: Makina Mühendisliği Alanında Uluslararası Araştırma ve Değerlendirmeler, ÖZALP COŞKUN, BARDAK
SELAHATTİN, Editor, SERÜVEN, Ankara, pp.15-33, 2024
- IV. **Yakma Sistemleri**
TOPALOĞLU B., ÖZCAN H., SUNGUR B.
NOBEL AKADEMİK YAYINCILIK EĞİTİM DANIŞMANLIK TİC. LTD. ŞTİ, 2020

Papers Published in Refereed Scientific Meetings

- I. **Kayırsı Çekirdeği Kabuğundan Piroлиз ile Biyoyağ Üretimi**
KARA G., ÖZCAN H.
IV. Ulusal Mühendislikte Bilimsel ve Mesleki Çalışmalar Kongresi, 23 December 2021, pp.100-104
- II. **RESEARCH ON THE USABILITY OF COAL NANOPARTICLES AS A NANO FUEL ADDITIVE TO BIODIESEL-DIESEL BLEND FOR DIESEL ENGINES**
ÇAKMAK A., ÖZCAN H.
18TH INTERNATIONAL CONFERENCE OF YOUNG SCIENTISTS ON ENERGY AND NATURAL SCIENCES ISSUES,
Kaunas, Lithuania, 24 May 2021, pp.129-140
- III. **Investigation of the Effects of Spherical Sun Power Generator on the Performance of Photovoltaic Panel**
RAHMANOV T., ÖZCAN H.
5th ICNES-International Congress on Natural and Engineering Sciences, 27 - 30 August 2019, pp.160-165
- IV. **Utilization of Glycerol Ethers in a Diesel Engine**
ÇAKMAK A., KAPUSUZ M., ÖZCAN H.
UEMK 2019 Proceedings Book24/25 October 2019 Gaziantep University, TURKEY, 24 - 25 October 2019, pp.139-154
- V. **Micron-Sized Coal Particles as A Novel Fuel Additive For Diesel Engine Application**
ÇAKMAK A., ÖZCAN H.

UEMK 2019 Proceedings Book 24/25 October 2019 Gaziantep University, TURKEY, 24 - 25 October 2019, pp.94-105

- VI. **Effects of Advancing Spark Timing on Performance and Emissions of M20 Fueled SI Engine**
ÇAKMAK A., KAPUSUZ M., ÖZCAN H.
The 1st International Symposium on Automotive Science and Technology-ISASTECH 2019, 5 - 06 September 2019, pp.61-66
- VII. **Pretreatment Methods to Reduce Exhaust Emissions of a Gasoline Engine**
KAPUSUZ M., ÇAKMAK A., ÖZCAN H.
INTERNATIONAL SYMPOSIUM ON AUTOMOTIVE SCIENCE AND TECHNOLOGY, 5 - 06 September 2019, pp.67-74
- VIII. **Condition Based Maintenance Dataset of Naval Propulsion Plants Using Regression ANN**
Mehyo M., ÖZCAN H., Ahmed Hassan A. H.
3rd International Students Science Congress 3-4 May 2019, İzmir - Turkey, 3 - 04 May 2019, pp.524-531
- IX. **Experimental Research on Emissions of an SI Engine Under Oxygen-Enriched Intake Air**
ÇAKMAK A., KAPUSUZ M., ÖZCAN H.
1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 27 - 29 June 2018, pp.991-1000
- X. **Effect Of Ethyl Acetate-Gasoline Blends On Energy (Thermal) Balance Of An SI Engine**
ÇAKMAK A., KAPUSUZ M., GANIYEV O., ÖZCAN H.
1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 27 - 29 June 2018, pp.980-990
- XI. **INVESTIGATION OF USABILITY OF THE ETHYL ACETATE AS OXYGENATED FUEL ADDITIVE**
ÇAKMAK A., KAPUSUZ M., GANIYEV O., ÖZCAN H.
9th International Automotive Technologies Congress, OTEKON 2018, Bursa, Turkey, 7 - 08 May 2018
- XII. **Oksijenli Yakıt Katkısı Olarak Etil Asetat Kullanımının İncelenmesi**
ÇAKMAK A., KAPUSUZ M., GANIYEV O., ÖZCAN H.
9th International Automotive Technologies Congress, OTEKON 2018, 7 - 08 May 2018, pp.202-209
- XIII. **Emissions analysis of an SI engine with humidified air induction**
Kapusuz M., Çakmak A., ÖZCAN H.
International Scientific Conference on Environmental and Climate Technologies (CONNECT), Riga, Latvia, 16 - 18 May 2018, vol.147, pp.235-241
- XIV. **Thermodynamic analysis of a power plant waste heat driven absorption refrigeration system**
Mehyo M., ÖZCAN H., Ahmed Hassan A. H.
4th World Congress on Mechanical, Chemical, and Material Engineering, MCM 2018, Madrid, Spain, 16 - 18 August 2018
- XV. **Bir Otto Motorda Etanol Katkısının Performans ve Emisyonlara Etkilerinin İncelenmesi**
KAPUSUZ M., ÇAKMAK A., ÖZCAN H.
2. International Conference on Advanced Engineering Technologies (ICADET'xx17), Bayburt, Turkey, 21 - 23 September 2017
- XVI. **Numerical analyses of the effect of boiler design on the performance of a liquid fuelled boiler**
SUNGUR B., TOPALOĞLU B., ÖZCAN H.
2ND INTERNATIONAL CONFERENCE ON COMBUSTION SCIENCE AND PROCESSES (CSP'17), Barcelona/Spain, Barcelona, Spain, 6 - 08 April 2017
- XVII. **Numerical Investigation of the Effect of Excess Air and Thermal Power Variation in a Liquid Fuelled Boiler**
SUNGUR B., TOPALOĞLU B., NAMLI L., ÖZCAN H.
Proceedings of the World Congress on Momentum, Heat and Mass Transfer (MHMT'16), 4 April - 04 May 2016
- XVIII. **A Numerical Study on The Effect of Conical Turbulators to Heat Transfer Inserted in Smoke Tubes of a Liquid Fuelled Boiler**
SUNGUR B., TOPALOĞLU B., ÖZCAN H., NAMLI L.
8th International Ege Energy Symposium and Exhibition (IEESE-8), Afyonkarahisar, Turkey, 11 - 13 May 2016, vol.1, pp.454-459

- XIX. **Numerical Investigation of the Effect of Excess Air and Thermal Load Variation in a Liquid Fuelled Boiler**
SUNGUR B., TOPALOĞLU B., NAMLI L., ÖZCAN H.
MHMT'16 The World Congress on Momentum, Heat and Mass Transfer, Prague, Czech Republic, 2016., PRAG, Czech Republic, 4 - 05 April 2016, vol.1, pp.1-6
- XX. **NANODİZEL YAKITLARIN MOTORLARDA KULLANIMOLANAKLARININ İNCELENMESİ**
GÜMÜŞ S. A., ÖZCAN H.
ULIBTK'xx13 19. Ulusal Isı Bilimi ve Tekniği Kongresi, 9-12 Eylül 2013, SAMSUN, Turkey, 9 - 12 September 2013, pp.1276-1279
- XXI. **ARAÇLAR İÇİN YERLEŞİK HİDROJEN ÜRETECİ TASARIMI**
TÜRK S., ÖZCAN H.
ULIBTK'xx13 19. Ulusal Isı Bilimi ve Tekniği Kongresi, 9-12 Eylül 2013, SAMSUN, Turkey, 9 - 12 September 2013, pp.1542-1546
- XXII. **BENZİNLİ MOTORLARDA H₂ O₂ KARIŞIMLARININ EK YAKITOLARAK KULLANIMININ MOTOR PERFORMANSINAVE EKSOZ EMİSYONLARINA ETKİSİNİN İNCELENMESİ**
TÜRK S., ÖZCAN H.
ULIBTK'xx13 19. Ulusal Isı Bilimi ve Tekniği Kongresi, 9-12 Eylül 2013, SAMSUN, Turkey, 9 February - 12 September 2013
- XXIII. **Alkol Benzin Karışımı ile Yakıtlandırılmış Kıvılcım Ateşlemeli Bir Motorda Yapay Sinir Ağı Yardımıyla Performans Analizi**
KAPUSUZ M., YAMIN J. A., ÖZCAN H.
ASYU 2012Akıllı Sistemlerde Yenilikler ve Uygulamaları Sempozyumu, Turkey, 3 - 04 July 2012, vol.255
- XXIV. **Yapay Sinir Ağı Kullanarak Bir Dizel Motorda Püskürtme Açısının Motor Performans ve Egzoz Emisyonu Üzerine Etkilerinin İncelenmesi**
KAPUSUZ M., ÖZCAN H.
18. Ulusal Isı Bilimi Ve Tekniği Kongresi, Turkey, 7 - 10 September 2011
- XXV. **Su Boryağı Al₂O₃ Nanoakışkanının Düz Boru Akımında Isı Transferi ve Basınç Kayıp Karakteristiklerinin Sayısal İncelenmesi**
NAMLI L., ÖZBEY M., ÖZCAN H.
ULIBTK'11 18. Ulusal Isı Bilimi ve Tekniği Kongresi, Zonguldak, Turkey, 7 - 10 September 2011, pp.444-449
- XXVI. **Comparison of Thermal Stability with Dynamic Mechanical Properties and Crystallization Behavior in Poly ethyleneoxide clay Nanocomposites by Artificial Neural Networks**
YAZICI M., KAPUSUZ M., BURGAZ E., ÖZCAN H.
The 7th Nanoscience and Nanotechnology Conference, 27 June - 01 July 2011
- XXVII. **Effect of Turpentine on Engine Performance and Exhaust Emission**
YUMRUTAŞ R., ALMA M. H., ÖZCAN H., KAŞKA Ö.
Proceedings of the 1st International Symposium and Exhibition on Environment Friendly Energy Sources and Technologies, 5 - 07 September 2005
- XXVIII. **İklimlendirme Sistemlerinde Karbondioksit Sensörü kullanımının Ekonomik Analizi**
ÖZCAN H., SÖYLEMEZ M. S.
6.Ulusal Soğutma ve İklimlendirme Tekniği Kongresi, Turkey, 13 - 14 April 2000
- XXIX. **Sabit Sıcaklıktaki Eğik Düz Plaka Üzerindeki Doğal Taşınımın Deneysel Olarak İncelenmesi**
ÖZCAN H., SÖYLEMEZ M. S.
12.Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 28 - 29 February 2000

Supported Projects

ÖZCAN H., Project Supported by Higher Education Institutions, Biyokütleden Hızlı Piroliz İle Biyoyakıt Üretimi ve Dizel Motorda Kullanım Olanaklarının Araştırılması, 2022 - Continues

Şahin F., Kara G., ÖZCAN H., Project Supported by Higher Education Institutions, FOTOVOLTAİK (PV) PANEL

PERFORMANSLARININ FOTOKATALİTİK, ANTİBAKTERİYEL VE YANSIMA ÖNLEYİCİ YÜZEY KAPLAMALARI İLE İYİLEŞTİRİLMESİ, 2022 - Continues

ÖZCAN H., Project Supported by Higher Education Institutions, Dizel Benzeri Yakıt Üretimi İçin Piroлиз İşlemi Yoluyla Atık Kızartma Yağının Geri Dönüşümünün Modellenmesi, 2022 - Continues

ÖZCAN H., Project Supported by Higher Education Institutions, PYO.MUH.1924.2019.004: Yakıt Özelliklerinin Geliştirilmesinde Kullanılacak Fotokatalitik Kapsül Üretimi, 2019 - Continues

Özcan H., Project Supported by Higher Education Institutions, Kömür nanoparçacıklarının yeni bir yakıt katkı maddesi olarak kullanımı, 2022 - 2023

Özcan H., Project Supported by Higher Education Institutions, Yakıt Özelliklerinin Geliştirilmesinde Kullanılacak Fotokatalitik Kapsül Üretimi, 2019 - 2023

ÇAKMAN G., ÖZCAN H., Project Supported by Higher Education Institutions, Kenevir tarımı atıklarının hareketli yatak reaktörde pirolizi ve ürünlerin uygulama alanlarının araştırılması, 2022 - 2022

ÖZCAN H., Eğitim/Araştırma ve Eğitim Amaçlı PV Deney Düzeneği Tasarımı ve Prototip İmalatı, 2020 - 2022

ÖZCAN H., Project Supported by Higher Education Institutions, Kömür Nanoparçacık Elde Edilmesi ve Dizel Yakıt Katkı Maddesi Olarak Kullanım Olanaklarının Araştırılması, 2020 - 2022

ÖZCAN H., Project Supported by Higher Education Institutions, Farklı Yakıt Katkı Maddeleri ve Teknikler Kullanarak Bir Dizel Motorunun Performans, Emisyon ve Yanma Karakteristiklerinin İyileştirilmesinin Deneysel İncelenmesi, 2019 - 2021

ÖZCAN H., Project Supported by Higher Education Institutions, PYO.MUH.1904.19.016: Farklı Yakıt Katkı Maddeleri ve Teknikler Kullanarak Bir Dizel Motorunun Performans, Emisyon ve Yanma Karakteristiklerinin İyileştirilmesinin Deneysel İncelenmesi, 2019 - 2021

ÖZCAN H., Project Supported by Higher Education Institutions, PYO.MUH.1904.19.011-Düşük Jeneratör Sıcaklığı ile Çalışan Absorbsiyonlu Soğutma Sistemlerinin Performansının İncelenmesi, 2019 - 2021

ÖZCAN H., Project Supported by Higher Education Institutions, Düşük Jeneratör Sıcaklığı ile Çalışan Absorbsiyonlu Soğutma Sistemlerinin Performansının İncelenmesi, 2019 - 2021

ÖZCAN H., Project Supported by Higher Education Institutions, Egzoz Emisyonlarının Azaltılması için Silindir Öncesi Yöntemlerin Araştırılması ve Optimizasyonu, 2015 - 2018

ÖZCAN H., Project Supported by Higher Education Institutions, İçten Yanmalı Motorların Yapay Sinir Ağları ile Modellenmesi ve Optimizasyonu, 2013 - 2014

ÖZCAN H., Project Supported by Other Private Institutions, Nanoyakıtların Dizel Motor Performans ve Eksoz Emisyonu Üzerine Etkilerinin Deneysel İncelenmesi, 2013 - 2014

Özbey M., Namlı L., Özcan H., TUBITAK Project, Nanoakışkanların Helisel Dönen Akımında Isı Transferinin Sayısal ve Deneysel İncelenmesi 108M119, 2008 - 2011

ÖZCAN H., TUBITAK Project, Nanoakışkanların Helisel Dönen Akımda Isı Transferinin Sayısal ve Deneysel İncelenmesi, 2008 - 2011

ÖZCAN H., Project Supported by Higher Education Institutions, Su enjeksiyonunun LPG ile çalışan standart bir motorun performansı üzerine etkilerinin deneysel olarak incelenmesi, 2002 - 2004

Patent

Hakan Ö., DİZEL, BİYODİZEL VEYA DİZEL-BİYODİZEL YAKITLAR İÇİN BİR YAKIT KATKISI, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, 2022

Hakan Ö., Gürbüz M., YAKIT ÖZELLİKLERİNİN GELİŞTİRİLMESİNDE KULLANILACAK FOTOKATALİTİK KAPSÜL, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, 2021