

Res. Asst. PhD FATİH AKTAŞ

Personal Information

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Education Information

Doctorate, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 2015 - 2021

Postgraduate, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 2012 - 2015

Undergraduate, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 2008 - 2012

Certificates, Courses and Trainings

Vocational Course, Laser Ignition Summer School 2018, National Institute for Laser, Plasma and Radiation Physics, 2018

Vocational Course, International Combustion Institute Summer School on Near-Wall Reactive Flow, Technical University of Darmstadt, 2016

Vocational Course, International Combustion Institute Winter School on Combustion, Eindhoven University of Technology, 2016

Dissertations

Doctorate, BİR DİZEL MOTORDA ÇİFT YAKIT OLARAK PROPAN-DİZEL KULLANIMININ YANMA REJİMİNE, MOTOR PERFORMANSINA VE EMİSYON DEĞERLERİNE OLAN ETKİLERİNİN SAYISAL OLARAK İNCELENMESİ, Gazi University, Fen Bilimleri Enstitüsü, 2021

Postgraduate, Katalitik konvertör öncesinde ısıtmanın konvertör verime etkisinin sayısal olarak incelenmesi, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2015

Research Areas

Energy, Fuels and Combustion, Internal Combustion Engines

Academic Titles / Tasks

Research Assistant PhD, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2021 - Continues

Research Assistant, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2014 - 2021

Courses

ÖLÇME VE VERİ DEĞERLENDİRME, Undergraduate, 2021 - 2022

Bitirme Tasarım Projesi I, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Numerical Investigation of Equivalence Ratio Effects on a Converted Diesel Engine Using Natural Gas**
Aktas F.
JOURNAL OF ENERGY RESOURCES TECHNOLOGY, TRANSACTIONS OF THE ASME, vol.144, no.9, pp.1-9, 2022
(Journal Indexed in SCI Expanded)
- II. **Colorless distributed combustion (CDC) effects on a converted spark-ignition natural gas engine**
AKTAŞ F., KARYEYEN S.
Fuel, vol.317, 2022 (Journal Indexed in SCI)
- III. **Spark ignition timing effects on a converted diesel engine using natural gas: A numerical study**
AKTAŞ F.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING, 2022 (Journal Indexed in SCI)
- IV. **Three-Dimensional Computational Fluid Dynamics Simulation and Mesh Size Effect of the Conversion of a Heavy-Duty Diesel Engine to Spark-Ignition Natural Gas Engine**
Aktas F.
Journal Of Engineering For Gas Turbines And Power-Transactions Of The Asme, vol.144, no.6, pp.1-12, 2022
(Journal Indexed in SCI)
- V. **Experimental investigation of cold start emission using preheating system on the exhaust line at the idle conditions on a spark ignition engine**
AKTAŞ F., DİNLER N., KARAASLAN S., Turker A., YÜCEL N.
Sadhana - Academy Proceedings in Engineering Sciences, vol.46, no.3, 2021 (Journal Indexed in SCI)
- VI. **EFFECTS OF PREHEATER LOAD AND LOCATION ON THE CATALYTIC CONVERTER EFFICIENCY DURING COLD START AND IDLING CONDITIONS**
DİNLER N., Taskin S., AKTAŞ F., KARAASLAN S., YÜCEL N.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.41, no.2, pp.239-247, 2021 (Journal Indexed in SCI)
- VII. **Effects of channel design and temperature on the performance of the catalytic converter**
DİNLER N., AKTAŞ F., YÜCEL N.
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.15, no.13, pp.813-820, 2018 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Performance and emission prediction of hydrogen addition to natural gas powered engine using 0/1 dimensional thermodynamic simulation**
Aktas F.
INTERNATIONAL JOURNAL OF ENERGY STUDIES, vol.7, no.1, pp.67-81, 2022 (National Refreed University Journal)
- II. **A 0/1-Dimensional Numerical Analysis of Performance and Emission Characteristics of the Conversion of Heavy-Duty Diesel Engine to Spark-Ignition Natural Gas En-gine**
Aktas F.
International Journal of Automotive Science and Technology, vol.6, no.1, pp.1-8, 2022 (National Refreed University Journal)
- III. **Utilization of CFD for the Aerodynamic Analysis of a Subsonic Rocket**
Aytac Z., Aktas F.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.3, pp.879-887, 2020 (Journal Indexed in ESCI)
- IV. **Numerical Investigation of the Effects of Different Percentage Ethanol and Methanol Addition on Performance and Emission Values of a Four Cylinder Diesel Engine at Full Load**
AKTAŞ F., KARAASLAN S., Kilic M., YÜCEL N.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.22, no.4, pp.967-977, 2019 (Journal Indexed in ESCI)
- V. **Soğuk Çalışma Durumunda Katalitik Konvertörün Tek Boyutlu Modellenmesi**
Dinler N., Aktas F., Bozkurt D., Karaaslan S., Yücel N.

Gazi Mühendislik Bilimleri Dergisi, vol.4, no.2, pp.108-114, 2018 (Other Refereed National Journals)

- VI. **Effects of Inlet Temperature and Channel Geometry on the Efficiency of a Catalytic Converter**
Dinler N., Aktaş F., Yücel N.
Journal of Architecture and Engineering, vol.2, no.1, 2014 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **0/1 DIMENSIONAL ANALYSIS OF THE COMBUSTION MODEL EFFECT ON AN INTERNAL COMBUSTION ENGINE USING NATURAL GAS**
Aktaş F.
6th INTERNATIONAL CONGRESS ON APPLIED SCIENCES, Edirne, Turkey, 6 - 08 May 2022, pp.25-26
- II. **INVESTIGATION OF THE EFFECT OF USING PROPANE-DIESEL DUAL FUEL IN DIESEL ENGINE ON PERFORMANCE AND EMISSION VALUE**
Aktaş F., Yücel N.
ULUSLARARASI KATILIMLI 23.ISI BİLİMİ VE TEKNİĞİ KONGRESİ, Gaziantep, Turkey, 8 - 10 September 2021, pp.554-558
- III. **DOĞALGAZLI BUJİ ATEŞLEMELİ BİR MOTORA DÖNÜŞTÜRÜLMÜŞ DİZEL BİR MOTORDA SIKIŞTIRMA ORANI ETKİSİNİN İNCELENMESİ**
Aktaş F.
ULUSLARARASI KATILIMLI 23.ISI BİLİMİ VE TEKNİĞİ KONGRESİ, Gaziantep, Turkey, 8 - 10 September 2021, pp.1554-1558
- IV. **NUMERICAL INVESTIGATION OF THE EFFECT OF THE AIR/FUEL RATIO IN A NATURAL GAS POWERED CONVERTED COMPRESSION IGNITION ENGINE**
Aktaş F.
OTEKON 2020, Bursa, Turkey, 6 - 07 September 2021, pp.1065-1073
- V. **The effect of the number of turbine blade on Gorlov turbine performance**
Yılmaz A., Bozer O., Kırkpınar H. A. , AKTAŞ F., TURGUT O.
4th International Conference on Innovations and Emerging Trends in Mechanical Engineering. (IINETME-2019), 27 - 28 March 2019
- VI. **A Sustainable Building Design in Turkey**
Sökmener A. B. , Yılmaz A., TURGUT O., AKTAŞ F., Yıldız F. H. , Altuntaş B., Bozer O.
4th International Conference on Innovations and Emerging Trends in Mechanical Engineering, Ankara, Turkey, 26 - 27 March 2019
- VII. **Investigation of the Effects of the Use of Diesel-Ethanol Fuel Mixture as a Secondary Fuel on the Performance and Emission Values of a Dual-Fuel Compressed-Ignition Engine**
AKTAŞ F., KARAASLAN S., YÜCEL N.
7th European Conference on Renewable Energy Systems (ECRES 2019), 10 - 12 June 2019
- VIII. **Experimental investigation of the effects of sunflower and hazelnut oil usage on performance and emission values in a diesel engine**
Aslan G., AKTAŞ F., KARAASLAN S., DİNLER N., YÜCEL N.
7th European Conference on Renewable Energy Systems (ECRES 2019), 10 - 12 June 2019
- IX. **INFLUENCE OF ETHANOL AND METHANOL ADDITIVES ON A DIESEL ENGINE PERFORMANCE CHARACTERISTICS: 1-D MODELLING**
Kılıç M., AKTAŞ F., KARAASLAN S., YÜCEL N.
4th International Conference on Engineering and Natural Sciences (ICENS 2018), 2 - 06 May 2018
- X. **Numerical Simulation of Heat Exchanger for Jatropa Oil Biodiesel Fuel Preheating**
AKTAŞ F., KARAASLAN S., YÜCEL N.
4th International Conference on Engineering and Natural Sciences (ICENS 2018), 2 - 06 May 2018
- XI. **ÜÇ YOLLU KATALİTİK KONVERTÖR GİRİŞ ÇIKIŞ AÇILARI ETKİLERİNİN SAYISAL OLARAK İNCELENMESİ**

AKTAŞ F., YARAR A., DİNLER N., YÜCEL N.

Ulusal Isı Bilimi ve Tekniği Kongresi, Ankara, Turkey, 13 - 16 September 2017

XII. Katalitik Konvertör Modellemesinde Kullanılan Reaksiyon Modellerinin Etkilerinin Sayısal İncelenmesi

DİNLER N., AKTAŞ F., YÜCEL N.

OTEKON'14 7. Otomotiv Teknolojileri Kongresi, Turkey, 26 - 27 May 2014

Supported Projects

AKTAŞ F., AKSOY A. E. , ELİBOL E. A. , TERZİOĞLU İ. Y. , ÇELİK A. F. , Project Supported by Higher Education Institutions, Ağır Taşıt Radyatörlerinde Magnezyum Hidroksit (MgOH₂)-su Çinko Oksit (ZnO)-su ve Alüminyum Oksit (Al₂O₃)-su Nanoakışkanlarının Soğutma Performansına Etkilerinin Deneysel Olarak İncelenmesi, 2022 - Continues

YÜCEL N., AKTAŞ F., DİNLER N., KARAASLAN S., Project Supported by Higher Education Institutions, BİR DİZEL MOTORDA ÇİFT YAKIT OLARAK PROPAN-DİZEL KULLANIMININ YANMA REJİMİNE, MOTOR PERFORMANSINA VE EMİSYON DEĞERLERİNE OLAN ETKİLERİNİN SAYISAL OLARAK İNCELENMESİ, 2019 - 2021

Dinler N., Yücel N., TÜBİTAK Project, Soğuk Çalışmada Üç Yollu Katalitik Konvertör Öncesi Egzoz Gazı Isıtılmasının Egzoz Emisyonları Üzerine Etkisinin Deneysel Ve Sayısal Olarak İncelenmesi, 2011 - 2014

Memberships / Tasks in Scientific Organizations

Türk Isı Bilimi ve Tekniği Derneği, Member, 2018 - Continues, Turkey

The Combustion Institute, Member, 2016 - Continues, United States Of America

Scientific Refereeing

Politeknik Dergisi, National Scientific Refreed Journal, August 2022

GÜMÜŞHANE ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, June 2022

PROPULSION AND POWER RESEARCH, SCI Journal, April 2022

Süleyman Demirel Üniversitesi Fen Edebiyat Fakültesi Fen Dergisi, National Scientific Refreed Journal, April 2022

INTERNATIONAL JOURNAL OF AUTOMOTIVE SCIENCE AND TECHNOLOGY, National Scientific Refreed Journal, March 2022

GAZİ UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, March 2022

SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, SCI Journal, September 2021

EUROPEAN MECHANICAL SCIENCE, National Scientific Refreed Journal, June 2021

Citations

Total Citations (WOS):5

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