

# MUSTAFA DENİZ ALTINKURT

## RES. ASST. PHD

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: F-6612-2018

ScopusID: 57200515534

Yoksis Researcher ID: 224265



## Learning Knowledge

Doctorate

2017 - 2023

Kocaeli University, Fen Bilimleri Enstitüsü, Otomotiv Mühendisliği Bölümü, Turkey

Postgraduate

2014 - 2017

Kocaeli University, Fen Bilimleri Enstitüsü, Otomotiv Mühendisliği, Turkey

Undergraduate

2009 - 2013

Cukurova University, Mühendislik Fakültesi, Otomotiv Mühendisliği, Turkey

## Foreign Languages

Spanish, A1 Beginner

German, A1 Beginner

English, C1 Advanced

## Dissertations

Doctorate, EXPERIMENTAL AND THEORETICAL INVESTIGATION OF NATURAL GAS – DIESEL DUAL FUEL COMBUSTION CONCEPT, Kocaeli University, Teknoloji Fakültesi, Otomotiv Mühendisliği, 2023

Postgraduate, EXPERIMENTAL AND THEORETICAL INVESTIGATION OF INJECTION PARAMETERS ON A DIRECT INJECTION HCCI ENGINE, Kocaeli University, Fen Bilimleri Enstitüsü, Otomotiv Mühendisliği, 2017

## Academic Titles / Tasks

Research Assistant

2014 - Continues

Kocaeli University, Teknoloji Fakültesi, Otomotiv Mühendisliği

## Supported Projects

1. ALTINKURT M. D., TÜRKCAN A., COŞKUN G., ERGÜN R. E., AYĞÜL V., Project Supported by Higher Education Institutions, Sürdürülebilir içten yanmalı motorlar için farklı yenilenebilir yakıtlar ve alternatif yanma stratejilerinin

çift yakıt sisteminde kullanımının deneysel ve teorik olarak incelenmesi, 2024 - Continues

2. ÖZSEZEN A. N., ÇANAKCI M., ALTINKURT M. D., TÜRKCAN A., ALPTEKİN E., Project Supported by Higher Education Institutions, OTOMOTİV MÜHENDİSLİĞİ BÖLÜMÜ MOTOR TEST LABORATUVARI ARAŞTIRMA-GELİŞTİRME ALTYAPISININ GÜNCELLENMESİ, 2024 - Continues

## Scholarships

2214-A Yurtdışı Doktora Sırası Araştırma Bursu, TUBİTAK, 2020 - 2022

## Published journal articles indexed by SCI, SSCI, and AHCI

1. **Effects of split diesel injection strategies on combustion, knocking, cyclic variations and emissions of a natural gas-diesel dual fuel medium speed engine**  
ALTINKURT M. D., Merts M., Tunér M., TÜRKCAN A.  
Fuel, vol.347, 2023 (SCI-Expanded)
2. **Effects of isobutanol fraction in diesel-biodiesel blends on combustion, injection, performance and emission parameters**  
Altinkurt M. D., Ozturk Y. E., Türkcan A.  
FUEL, vol.330, 2022 (SCI-Expanded)
3. **Numerical and experimental investigations of the effects of the second injection timing and alcohol-gasoline fuel blends on combustion and emissions of an HCCI-DI engine**  
TÜRKCAN A., ALTINKURT M. D., Coşkun G., ÇANAKCI M.  
FUEL, vol.219, pp.50-61, 2018 (SCI-Expanded)

## Articles Published in Other Journals

1. **DİZEL-BİYODİZEL-İZOBÜTANOL ÜÇLÜ KARIŞIMLARI KULLANILAN BİR DİZEL MOTORDA YANMA, PERFORMANS VE EMİSYON KARAKTERİSTİKLERİNİN DENEYSEL OLARAK İNCELENMESİ**  
Öztürk Y. E., Altinkurt M. D., Türkcan A.  
Uluslararası Yakıtlar Yanma Ve Yangın Dergisi, no.8, pp.56-66, 2020 (Peer-Reviewed Journal)
2. **A COMPUTATIONAL AND EXPERIMENTAL INVESTIGATION OF THE EFFECTS OF SECOND INJECTION TIMING ON A DI-HCCI ENGINE FUELED WITH GASOLINE ETHANOL BLENDS**  
ALTINKURT M. D., TÜRKCAN A.  
International Journal of Advances on Automotive and Technology, vol.1, no.4, pp.151-163, 2017 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

1. **DEĞİŞKEN METANOL VE ETANOL ORANININ DİZEL-BİYODİZEL KARIŞIMLARININ KULLANILDIĞI BİR DİZEL MOTORDA YANMA KARAKTERİSTİKLERİNE ETKİLERİNİN DENEYSEL OLARAK İNCELENMESİ**  
Esen D. Ö., Yücel M., Türkcan A., Altinkurt M. D., Shabaneh S. A.  
17th. International Combustion Symposium (INCOS 2024), Bursa, Turkey, 19 - 21 September 2024, pp.56-64
2. **COMPARATIVE STUDY OF DIESEL AND DIESEL-HYDROGEN DUAL FUEL USE IN RCCI ENGINE UNDER VARIOUS LOAD CONDITIONS**  
Gördük M. B., Demir Ü., Altinkurt M. D.  
11th International Automotive Technologies Congress, OTEKON 2024, Bursa, Turkey, 9 - 10 September 2024, pp.1216-1228
3. **Investigation of performance and emissions in a diesel engine using diesel-biodieselethanol-**

## **methanol quaternary fuel blends**

Esen D. Ö., Yücel M., Altinkurt M. D., Türkcan A., Shabaneh S. A.

3rd. International Conference on Scientific and Innovation Research, Sivas, Turkey, 3 - 05 May 2024, pp.889-897

### **4. ÇİFT YAKITLI DOĞALGAZ-DİZEL BİR MOTORDA ENJEKSİYON STRATEJİSİNİN PERFORMANS VE EMİSYONLARA ETKİSİNİN İNCELENMESİ**

Altinkurt M. D., Merts M., Tunér M., Türkcan A.

16th International Combustion Symposium (INCOS2022), Aydın, Turkey, 8 - 11 September 2022, pp.374-380

### **5. DİZEL-BİYODİZEL-İZOBÜTANOL ÜÇLÜ KARIŞIMLARI KULLANILAN BİR DİZEL MOTORDA PERFORMANS VE EMİSYON KARAKTERİSTİKLERİNİN DENEYSEL OLARAK İNCELENMESİ**

Öztürk Y. E., Altinkurt M. D., Türkcan A.

15th. International Combustion Symposium, 17 - 19 September 2020

### **6. PİSTON TASARIMI VE FARKLI YAKIT KARIŞIMLARININ DİREKT ENJEKSİYONLU BİR HCCI MOTORDA YANMAYA ETKİLERİNİN SONLU HACİMLER METODU İLE İNCELENMESİ**

Köse K., Altinkurt M. D., Türkcan A.

International Marmara Sciences Congress (Autumn) 2020, Kocaeli, Turkey, 4 - 05 December 2020, pp.359-366

### **7. Numerical Investigation of the Effects of Second Injection Timing and EGR on Combustion and Emission Formation in a HCCI Engine Running with Ethanol-Gasoline Fuel Blends**

TÜRKCAN A., ALTINKURT M. D., ÇANAKCI M.

9th International Automotive Technologies Congress (OTEKON 2018), Bursa, Turkey, 7 - 08 May 2018, vol.1, pp.665-674

### **8. Benzin-Metanol Karışımları Kullanılan HCCI-DI Bir Motorda II. Enjeksiyon Zamanı ve Dış EGR'nin Yanma Karakteristikleri ve Emisyonlara Etkisinin İncelenmesi**

Altinkurt M. D., Türkcan A., Çanakçı M.

14th International Combustion Symposium, (14. Uluslararası Yanma Sempozyumu) INCOS 2018, Karabük, Turkey, 25 - 27 April 2018, vol.1, pp.217-226

### **9. Effects of Using Methanol-Gasoline Fuel Blends with Different Injection Strategies in an HCCI engine: Comparison of experimental results with CFD Simulation**

Coşkun G., Türkcan A., Altinkurt M. D., Demir Ü.

AVL International Simulation Conference 2017, Graz, Austria, 27 - 29 June 2017

### **10. Experimental and computational studies on the combustion and emissions of a gasoline HCCI-DI engine using second injection strategy**

ALTINKURT M. D., TÜRKCAN A., ÇANAKCI M.

8. Otomotiv Teknolojileri Kongresi (OTEKON 2016), Turkey, 23 - 24 May 2016

## **Courses**

Taşıtlar ve Çevre, Undergraduate, 2024 - 2025

İleri Motor Teknolojileri, Undergraduate, 2023 - 2024

Introduction to Automotive Engineering, Undergraduate, 2023 - 2024

Yakıt Dönüşüm Sistemleri, Undergraduate, 2024 - 2025

## **Scientific Refereeing**

International Journal of Fuels, Fire and Combustion in Engineering (FCE), Other Indexed Journal, November 2024

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, Journal Indexed in SCI-E, April 2024

Uluslararası Yakıtlar Yanma Ve Yangın Dergisi, Other Indexed Journal, March 2024

GAZI UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, March 2024

International Journal of Automotive Science and Technology, Other Indexed Journal, February 2024

Fuels, Fire and Combustion in Engineering Journal, Other Indexed Journal, December 2023

FUEL, Journal Indexed in SCI-E, March 2023

Fuels, Fire and Combustion in Engineering Journal (FCE), Other Indexed Journal, December 2021

FUEL, Journal Indexed in SCI-E, April 2020

## Metrics

Publication: 16

Citation (WoS): 69

Citation (Scopus): 84

H-Index (WoS): 3

H-Index (Scopus): 3

## Research Areas

Mechanical Engineering, Thermodynamics, Internal Combustion Engines, Computational fluid dynamics, Engineering and Technology