

## Lect. PhD ORHAN NAZIM AKSU

### Personal Information

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### International Researcher IDs

ScholarID: ES04-88AAAAJ

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Publons / Web Of Science ResearcherID: AAL-4447-2021

ScopusID: 56462630900

Yoksis Researcher ID: 22836

### Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 2013 - Continues

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Anabilim Dalı, Turkey 2010 - 2013

Undergraduate, Karadeniz Technical University, Sürmene Deniz Bilimleri Fakültesi, Gemi İnşaatı Mühendisliği, Turkey 2000 - 2004

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Postgraduate, Turboşarjlı Bir Dizel Motorunda n-Bütanol-Dizel Yakıtı Karışımlarının Kullanılmasının Motor Karakteristikleri ve Eksoz Emisyonları Üzerindeki Etkilerinin Deneysel İncelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Anabilim Dalı, 2013

### Research Areas

Mechanical Engineering, Thermodynamics, Fuels and Combustion, Internal Combustion Engines, Thermal machines, Engineering and Technology

### Academic Titles / Tasks

Lecturer, Karadeniz Technical University, Abdullah Kanca Meslek Yüksekokulu, Motorlu Araçlar ve Ulaştırma Teknolojileri, 2010 - Continues

## Academic and Administrative Experience

Karadeniz Technical University, Abdullah Kanca Meslek Yüksekokulu, Motorlu Araçlar ve Ulaştırma Teknolojileri, 2010 - Continues

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

- I. **The effects of n-butanol/gasoline blends and 2.5% n-butanol/gasoline blend with 9% water injection into the intake air on the SIE engine performance and exhaust emissions**  
Şahin Z., Nazım Aksu O. N., Bayram C.  
Fuel, vol.303, 2021 (SCI-Expanded)
- II. **Experimental investigation of n-butanol/diesel fuel blends and n-butanol fumigation - Evaluation of engine performance, exhaust emissions, heat release and flammability analysis**  
ŞAHİN Z., Durgun O., AKSU O. N.  
ENERGY CONVERSION AND MANAGEMENT, vol.103, pp.778-789, 2015 (SCI-Expanded)
- III. **Experimental investigation of the effects of using low ratio n-butanol/diesel fuel blends on engine performance and exhaust emissions in a turbocharged DI diesel engine**  
ŞAHİN Z., AKSU O. N.  
RENEWABLE ENERGY, vol.77, pp.279-290, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Experimental Investigation of the Effects of N-Butanol Fumigation on Engine Performance and Exhaust Emissions in a Turbocharged Diesel Engine**  
ŞAHİN Z., AKSU O. N., DURGUN O.  
Gemi ve Deniz Teknolojisi, vol.23, no.210, pp.5-20, 2017 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Experimental investigation of n-Butanol/diesel fuel blends and n-Butanol fumigation: Evaluation of engine performance, exhaust emissions, and heat release**  
ŞAHİN Z., DURGUN O., AKSU O. N.  
in: Exergy for A Better Environment and Improved Sustainability 2, Fethi Aloui, İbrahim Dinçer, Editor, Springer, pp.47-65, 2018

## Refereed Congress / Symposium Publications in Proceedings

- I. **ENGINE PERFORMANCE AND EXHAUST EMISSIONS OF A SPARK IGNITION ENGINE OPERATING ON 2.5 % n-BUTANOL/GASOLINE BLEND AND 2.5 % n-BUTANOL/GASOLINE BLEND WITH 9 % WATER INJECTION TO INTAKE AIR**  
Şahin Z., Aksu O. N., Bayram C.  
5th International Anatolian Energy Symposium, Trabzon, Turkey, 24 - 25 March 2021, pp.658-669
- II. **EXPERIMENTAL INVESTIGATION OF THE EFFECTS OF NBUTANOL/GASOLINE BLENDS ON ENGINE PERFORMANCE AND EXHAUST EMISSIONS IN A SPARK IGNITION ENGINE**  
ŞAHİN Z., AKSU O. N., BAYRAM C.  
ICADET 2019-3rd International Conference on AdvancedEngineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, pp.870-879
- III. **Experimental Investigation of n-Butanol/Diesel Fuel Blends and n-Butanol Fumigation: Evaluation of**

### **Engine Performance, Exhaust Emissions, and Heat Release**

ŞAHİN Z., Durgun O., AKSU O. N.

7th International Exergy, Energy and Environmental Symposium (IEEES), Valenciennes, France, 27 - 30 April 2015, pp.47-65

#### **IV. Experimental Investigation of The Effects of Using n-butanol Fumigation on Engine Performance and Exhaust Emissions in a Turbocharged DI Diesel Engine**

ŞAHİN Z., AKSU O. N., DURGUN O.

2. International Conference on Advanced Engineering Technology (ICADET'17), 21 - 23 September 2017

#### **V. Turboşarjlı bir Dizel Motorunda n-Bütanol-Dizel Yakıtı Karışımlarının Kullanılmasının Motor Karakteristikleri ve Eksoz Emisyonları Üzerindeki Etkilerinin Deneysel İncelenmesi**

ŞAHİN Z., AKSU O. N., DURGUN O.

19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Turkey, 9 - 12 September 2013, vol.-, pp.1242-1253

### **Supported Projects**

ŞAHİN Z., AKSU O. N., BAYRAM C., Project Supported by Higher Education Institutions, Güncel Taşıt Motorlarının Performans Parametrelerinin ve Eksoz Emisyonlarının Belirlenmesi ve Motorlarda Alternatif Yakıt ve Su Kullanımı, 2015 - 2017

### **Metrics**

Publication: 10

Citation (WoS): 139

Citation (Scopus): 156

H-Index (WoS): 3

H-Index (Scopus): 3

### **Congress and Symposium Activities**

2nd International Conference on Advanced Engineering Technologies - ICADET 2017, Attendee, Bayburt, Turkey, 2017

### **Non Academic Experience**

BEŞİKTAŞ TERSANESİ

GÜRDESAN GEMİ MAKİNE

ALPAGÜL DENİZCİLİK

BEŞİKTAŞ GROUP

TORLAK TERSANESİ