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Personal Information

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International Researcher IDs

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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 - 2024

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

Doctorate, Numerical Investigation of Natural Gas Utilization in Diesel Engine, Karadeniz Technical University, Fen Bilimleri Enstitüsü, -, 2024

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

Assistant Director of Vocational School, Karadeniz Technical University, Abdullah Kanca Meslek Yüksekokulu, Motorlu Araçlar Ve Ulaştırma Teknolojileri, 2024 - Continues

Head of Department, Karadeniz Technical University, Abdullah Kanca Meslek Yüksekokulu, Motorlu Araçlar Ve Ulaştırma Teknolojileri, 2010 - 2022

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

- 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

Papers Published in Refereed Scientific Meetings

- 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 N-BUTANOL/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 Advanced Engineering 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): 140
Citation (Scopus): 157
H-Index (WoS): 3
H-Index (Scopus): 3

Congress and Symposium Activities

5th International Anatolian Energy Symposium, Panelists, Trabzon, Turkey, 2021
3rd International Conference on Advanced Engineering Technologies (ICADET 2019), Panelists, Bayburt, Turkey, 2019
2nd International Conference on Advanced Engineering Technologies - ICADET 2017, Panelists, Bayburt, Turkey, 2017

Non Academic Experience

BEŞİKTAŞ TERSANESİ, PROJE MÜHENDİSİ
GÜRDESAN GEMİ MAKİNE, PROJE MÜHENDİSİ
ALPAGÜL DENİZCİLİK, PROJE MÜHENDİSİ
BEŞİKTAŞ GROUP, PROJE MÜHENDİSİ
TORLAK TERSANESİ, PLANLAMA VE PROJE MÜHENDİSİ