Res. Asst. PhD Halil İbrahim Sönmez

Personal Information

Office Phone: +90 432 444 5065 Extension: 25613
Email: hibrahim@yyu.edu.tr
Web: https://avesis.yyu.edu.tr/hibrahim

International Researcher IDs
ScholarID: 038MMdEAAAAJ
ORCID: 0000-0002-0196-8334
Publons / Web Of Science ResearcherID: AAZ-1972-2021
ScopusID: 57320372700
Yoksis Researcher ID: 200893

Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2018 - 2023
Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2015 - 2018
Undergraduate, Yildiz Technical University, Naval Architecture And Maritime Faculty, Turkey 2006 - 2012

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Dizel motorda pirolitik yağ ve biyodizel karışım yakıtlarının performans ve emisyonlara etkilerinin incelenmesi, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2023
Postgraduate, Buji ateşlemeli bir motorda yakıt olarak sıkıştırılmış doğalgaz kullanımı ve motor performansının deneysel incelenmesi, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2017

Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Alternative Energy Resources, Thermodynamics, Fuels and Combustion, Internal Combustion Engines, Naval Architecture and Marine Engineering, Ship Machines

Academic Titles / Tasks

Research Assistant, Van Yüzüncü Yil University, Denizcilik Fakültesi, Gemi Makinaları İşletme Mühendisliği Bölümü, 2014 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Gradient boosting machine for performance and emission investigation of diesel engine fueled with pyrolytic oil-biodiesel and 2-EHN additive**
OKUMUŞ F., Sönmez H. İ., SAFA A., Kaya C., KÖKKÜLÜNK G.
Sustainable Energy and Fuels, vol.7, no.16, pp.4002-4018, 2023 (SCI-Expanded)

II. **Renewable energy resources: Combustion and environmental impact of diesel with pyrolytic and biodiesel blends**
Sönmez H. İ., OKUMUŞ F., SAFA A., Aydin Z., Kaya C., KÖKKÜLÜNK G.
ENERGY & ENVIRONMENT, vol.34, no.4, pp.855-872, 2023 (SSCI)

III. **Waste to energy conversion: Pyrolytic oil and biodiesel as a renewable fuel blends on diesel engine combustion, performance, and emissions**
Sönmez H. İ., Okumuş F., Kaya C., Aydın Z., Safa A., Kökkülünk G.
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.19, no.12, pp.1333-1344, 2022 (SCI-Expanded)

Articles Published in Other Journals

I. **Cost Efficiency and Emission Analysis of a Bulk Carrier Cranes Operation**
BAŞHAN V., ÇAKIR M., SÖNMEZ H. İ.
JOURNAL OF ETA MARITIME SCIENCE, vol.6, no.1, pp.27-36, 2018 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. **Pirolitik Yakıtın Dizel Motor Performansı ve Emisyonlarına Etkisi**
Sönmez H. İ., Safa A.
1st International Conference on Trends in Advanced Research ICTAR 2023, Konya, Turkey, 4 - 07 March 2023, pp.279-285

II. **Performance, Emission and Economic Analysis of The Refrigeration Systems in Ships**
Başhan V., Kaya A., Özsarı İ., Arslan F., Sönmez H. İ.
4th INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING: ICAME 2018, İstanbul, Turkey, 19 - 21 December 2018, pp.875-886

III. **EFFECT OF COMPRESSION RATIO ON THE PERFORMANCE OF A NATURAL GAS FIRED ENGINE**
Çakır M., Sönmez H. İ.
4TH INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCE, Kyyiv, Ukraine, 2 - 06 May 2018, pp.387

IV. **DESIGN AND CALCULATION OF THE WASTE HEAT RECOVERY POTENTIAL FOR A BULK CARRIER MARINE DIESEL GENERATOR**
Kökkülünk G., Başhan V., Kaya A., Sönmez H. İ.
3rd CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017– ICAME2017, İstanbul, Turkey, 19 - 21 December 2017, pp.366-374

V. **Determination of Pre-combustion Chamber Design for a Stratified Charge Natural Gas Engine**
Çakır M., Sönmez H. İ.
III. International Conference on Engineering and Natural Science (ICENS), Budapest, Hungary, 3 - 07 May 2017, pp.609-613

VI. **Bir Yük Gemisinin Balast Operasyonunun Ekonomik ve Ekolojik Analizi**
Başhan V., Sönmez H. İ., Gonca G.
1st International Congress on Ship and Marine Technology, İstanbul, Turkey, 8 - 09 December 2016, pp.1-12

Supported Projects

Okumuş F., Gonca G., Kaya C., Sönmez H. İ., Kökkülünk G., Project Supported by Higher Education Institutions, Hidrojen-Amonyak-Dizel Yakıt Karışımlarıyla Çalıştırılan Bir Dizel Motorun Emisyon ve Performans Karakteristiklerinin İncelenmesi, 2021 - 2023

Kökkülünk G., Bayar H., Gonca G., Kaya C., Okumuş F., Sönmez H. İ., Project Supported by Higher Education Institutions, Dizel motorlarda atık lastiklerden elde edilen pirolitik yakıt ile atık kızartma yağı biyodizeli karışımlarının performans ve emisyonlara etkilerinin deneysel olarak incelenmesi, 2021 - 2022

Çakır M., Sönmez H. İ., Başhan V., Üst Y., Project Supported by Higher Education Institutions, DOĞAL GAZ YAKITLI TEK SİLİNDİRLİ BİR MOTORUN İDEAL ÇALIŞMA SICAKLIK KOŞULLARININ BELİRLENMESİ, 2018 - 2021

Metrics

Publication: 11
Citation (Scopus): 5
H-Index (Scopus): 2