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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-1972-2021

ScopusID: 57320372700

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Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2018 - 2023

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2015 - 2018

Undergraduate, Yıldız Technical University, Naval Architecture And Maritime Faculty, Turkey 2006 - 2012

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Dizel motorda pirolitik ya  ve biyodizel kar  m yakitlar n n performans ve emisyonlara etkilerinin incelenmesi, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, 2023

Postgraduate, Buji ate lemeli bir motorda yakit olarak sıkıştırılmış do algaz kullanımı ve motor performansının deneysel incelenmesi, Yıldız 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 Y zinci Y l University, Denizcilik Fak lt si, Gemi Makineleri İşletme M hendisli  B l m , 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., Aydin 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, Kyiv, 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., Kökkünlük G., Project Supported by Higher Education Institutions, Hidrojen-Amonyak-Dizel Yakıt Karışımıyla Çalıştırılan Bir Dizel Motorun Emisyon ve Performans Karakteristiklerinin İncelenmesi, 2021 - 2023

Kökkünlük 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 SİLİNDİRİLİ BİR MOTORUN İDEAL ÇALIŞMA SICAKLIK KOŞULLARININ BELİRLENMESİ, 2018 - 2021

Metrics

Publication: 11

Citation (Scopus): 5

H-Index (Scopus): 2