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Research Areas

Alternative Energy Resources, Fuels and Combustion, Internal Combustion Engines

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Effects of Supercharge Pressure on Combustion Characteristics of a Diesel Engine Fueled with Alcohol-Diesel Blends**
Vargün M., Özsezen A. N., Türkcan A., Sayın C., Kılıçaslan İ.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.48, no.9, pp.12029-12042, 2023 (SCI-Expanded)

II. **A study on the impact of fuel injection parameters and boost pressure on combustion characteristics in a diesel engine using alcohol/diesel blends**
Vargün M., Özsezen A. N., Botsalı H., Sayın C.
Process Safety and Environmental Protection, vol.177, pp.29-41, 2023 (SCI-Expanded)

III. **Evaluation of the effect of the fuel injection phase on the combustion and exhaust characteristics in a diesel engine operating with alcohol-diesel mixtures**
Vargün M., Özsezen A. N.
Energy, vol.270, 2023 (SCI-Expanded)

IV. **Determination of optimal combustion conditions in a diesel engine operating on ethanol/diesel mixtures**
Özsezen A. N., Vargün M., Kaya B., Türkcan A.
JOURNAL OF THE ENERGY INSTITUTE, vol.107, 2023 (SCI-Expanded)

V. **Investigation of performance, combustion and emission characteristics in a diesel engine fueled with methanol/ethanol/nHeptane/diesel blends**
Vargün M., Yılmaz İ. T., Sayın C.
ENERGY, vol.257, 2022 (SCI-Expanded)

VI. **Experimental investigation of combustion and exhaust emission values in a diesel engine using ethanol-butan-2-ol-diesel fuel blends**
Vargün M., Özsezen A. N., Hürpekli M., Sayın C.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.44, no.9, 2022 (SCI-Expanded)

VII. **Investigation of Effect of Dual Fuel Injection Stages on Combustion Parameters in a Diesel Engine**

Using Ethanol-Butan-2-ol-Fossil Diesel Blends
Vargün M., Özsezen A. N.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.47, no.7, pp.9173-9185, 2022 (SCI-Expanded)

Articles Published in Other Journals

I. **Etanol-Dizel Yakıt Karışımları Kullanılan Bir Motorda Yakıt Püskürtme Zamanının Yanma Üzerine Etkisi**
Vargün M., Hürpekli M., Özsezen A. N.
Uluslararası Yakıtlar Yanma Ve Yangın Dergisi, no.8, pp.47-55, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **EVALUATION OF COMBUSTION CHARACTERISTICS IN A COMMON RAIL DIESEL ENGINEFUELED BUTANOL/NHEPTANE/DIESEL BLENDS**
Vargün M., Yapmaz A., Yılmaz İ. T., Sayın C.
INTERNATIONAL SYMPOSIUM ON ENERGY MANAGEMENT AND SUSTAINABILITY ISEMAS-2022, İstanbul, Turkey, 05 April 2022, pp.83-90

II. **Effect of nHeptane/Isopropanol/Butanol/Diesel Blends on Exhaust Emissions in a CommonRail Diesel Engine**
Vargün M., Yapmaz A., Yılmaz İ. T., Sayın C.
14th International Green Energy Conference (IGEC-XIV), Ontario, Canada, 04 July 2022, vol.1, no.116, pp.540-545

III. **Evaluation of The Effects of Pilot Fuel Injection Ratio on Combustion Products in a Diesel Engine Using Ethanol/Diesel Mixtures**
Vargün M., Özsezen A. N., Sayın C.
14th International Green Energy Conference (IGEC-XIV), Ontario, Canada, 4 - 08 July 2022, vol.1, no.61, pp.318-325

IV. **EFFECT OF INJECTION TIMING CHANGE ON COMBUSTION IN A DIESEL ENGINE WITH COMMON RAIL FUEL INJECTION SYSTEM**
Vargün M., Özsezen A. N., Sayın C.
7. ULUSLARARASI MARMARA FEN BİLİMLERİ KONGRESİ (IMASCON 2021 GÜZ), Kocaeli, Turkey, 10 - 11 December 2021, vol.1, pp.477-483

V. **The Impacts of Fuel Injection Strategies on Combustion Characteristics of a Diesel Engine Using 2-Butanol-Ethanol-Diesel Fuel Blends**
Vargün M., Özsezen A. N., Sayın C.
23rd Congress on Thermal Science and Technology with International Participation (ULIBTK 2021), Gaziantep, Turkey, 8 - 10 September 2021, vol.1, pp.419-425

VI. **Effect of Alcohol Blends on Emissions in Common Rail Diesel Engine**
Yapmaz A., Vargün M., Yılmaz İ. T.
International Symposium on Automotive Science and Technology-ISASTECH 2021, Ankara, Turkey, 8 - 10 September 2021, vol.2, pp.1-8

VII. **AN ASSESSMENT OF TWO STAGED FUEL INJECTION APPLICATION ON COMBUSTION CHARACTERISTICS IN A DIESEL ENGINE FUELED ALCOHOL-DIESEL BLENDS**
Vargün M., Özsezen A. N., Sayın C.
15th INTERNATIONAL CONFERENCE ON HEAT TRANSFER, FLUID MECHANICS AND THERMODYNAMICS-ATE HEFAT 2021, Johannesburg, South Africa, 26 - 28 July 2021, vol.1, pp.218-223

VIII. **EXHAUST EMISSION EFFECTS OF DIESEL-ETHANOL FUEL BLEND IN COMPRESSION IGNITION ENGINE**
Hürpekli M., Vargün M., Özsezen A. N.
13th International Green Energy Conference-IGEC 2021, Tianjin, China, 15 - 18 July 2021, vol.1, pp.501-516

IX. **Determining the Effect of Intake Air Pressure on Combustion Characteristics of a Diesel Engine Using Ethanol-Diesel Fuel Blends**
Vargün M., Buçaklı Ö. S., Özsezen A. N.
13th International Green Energy Conference-IGEC 2021, Tianjin, China, 15 - 18 July 2021, vol.1, pp.312-319

X. **INVESTIGATION OF COMBUSTION OF DIESEL-ETHANOL FUEL BLEND IN COMPRESSION IGNITION ENGINE**
Hürpekli M., Vargün M., Özsezen A. N., Apaydın A. H.
15th INTERNATIONAL COMBUSTION SYMPOSIUM-INCOS 2020, Kayseri, Turkey, 17 - 19 September 2020, vol.1, pp.164-172

XI. **The Effect of Fuel Injection Time on Combustion Characteristics in a Diesel Engine Using Ethanol-Diesel Blends**
Vargün M., Hürpekli M., Özsezen A. N.
15th INTERNATIONAL COMBUSTION SYMPOSIUM-INCOS 2020, Kayseri, Turkey, 17 - 19 September 2020, vol.1, pp.149-157

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