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Akademik Unvanlar / Görevler

Doç. Dr., California State University, Los Angeles, 2024 - Devam Ediyor

Doç. Dr., Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2024 - Devam Ediyor

Doç. Dr., Düzce Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2022 - 2024

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Vijayalakshmi A., Meena R. S., Domakonda V. K., Rao A. V., Sathish T., Ağbulut Ü., Rajasimman M., Joo S., Vasseghian Y. Fuel, cilt.349, 2023 (SCI-Expanded)

LXXXII. Melting numerical simulation of hydrated salt phase change material in thermal management of cylindrical battery cells using enthalpy-porosity model

Afzal A., Jilte R., Samee M., Ağbulut Ü., Shaik S., Park S. G., Alwetaishi M.

Sustainable Energy Technologies and Assessments, cilt.59, 2023 (SCI-Expanded)

LXXXIII. Steam explosion as sustainable biomass pretreatment technique for biofuel production: Characteristics and challenges

Hoang A. T., Nguyen X. P., Duong X. Q., Ağbulut Ü., Len C., Nguyen P. Q. P., Kchaou M., Chen W.

Bioresource Technology, cilt.385, 2023 (SCI-Expanded)

LXXXIV. Combustion, performance and emission discussion of soapberry seed oil methyl ester blends and exhaust gas recirculation in common rail direct fuel injection system

Sajjad M. O. A., Sathish T., Saravanan R., Asif M., Linul E., Ağbulut Ü.

Energy, cilt.278, 2023 (SCI-Expanded)

LXXXV. Production of oxy-hydrogen gas and the impact of its usability on CI engine combustion, performance, and emission behaviors

Dewangan A., Mallick A., Yadav A. K., Islam S., Saleel C. A., Shaik S., Ağbulut Ü.

Energy, cilt.278, 2023 (SCI-Expanded)

LXXXVI. Investigation of nano composite heat exchanger annular pipeline flow using CFD analysis for crude oil and water characteristics

Kumar R R., Karthik K., Elumalai P., Alshahrani S., Ağbulut Ü., Saleel C. A., Shaik S., Khan S. A.

Case Studies in Thermal Engineering, cilt.49, 2023 (SCI-Expanded)

LXXXVII. Analysis of CRDI diesel engine characteristics operated on dual fuel mode fueled with biodiesel-hydrogen enriched producer gas under the single and multi-injection scheme

Lalsangi S., Yaliwal V., Banapurmath N., Soudagar M. E. M., Ağbulut Ü., Kalam M.

International Journal of Hydrogen Energy, cilt.48, sa.74, ss.28927-28944, 2023 (SCI-Expanded)

LXXXVIII. Investigations on a novel fuel water hyacinth biodiesel and Hydrogen-Powered engine in Dual-Fuel Model:

Optimization with I-optimal design and desirability

Jyoti Bora B., Sharma P., Deepanraj B., Ağbulut Ü.

Fuel, cilt.345, 2023 (SCI-Expanded)

LXXXIX. Pore size variation of nano-porous material fixer on the engine bowl and its combined effects on hybrid nano-fuelled CI engine characteristics

Sathish T., Ağbulut Ü., Muthukumar K., Saravanan R., Alwetaishi M., Shaik S., Saleel C. A.

Fuel, cilt.345, 2023 (SCI-Expanded)

XC. A critical review on renewable battery thermal management system using heat pipes

Afzal A., Abdul Razak R., Mohammed Samee A., Kumar R., Ağbulut Ü., Park S. G.

Journal of Thermal Analysis and Calorimetry, cilt.148, sa.16, ss.8403-8442, 2023 (SCI-Expanded)

XCI. Modifying diesel fuel with nanoparticles of zinc oxide to investigate its influences on engine behaviors Rajak U., Nageswara Reddy V., Ağbulut Ü., Sarıdemir S., Afzal A., Nath Verma T. Fuel, cilt.345, 2023 (SCI-Expanded)

XCII. Experimental analysis on the impacts of soil deposition and bird droppings on the thermal performance of photovoltaic panels

Shaik S., Vigneshwaran P., Roy A., Kontoleon K. J., Mazzeo D., Cuce E., Saleel C. A., Alwetaishi M., Khan S. A., Gürel A. E., et al. Case Studies in Thermal Engineering, cilt. 48, 2023 (SCI-Expanded)

XCIII. Optimization of performance and emission outputs of a CI engine powered with waste fat biodiesel: A detailed RSM, fuzzy multi-objective and MCDM application

El-Shafay A., Gad M., Ağbulut Ü., Attia E.

Energy, cilt.275, 2023 (SCI-Expanded)

XCIV. Waste to fuel: Synergetic effect of hybrid nanoparticle usage for the improvement of CI engine characteristics

fuelled with waste fish oils

Sathish T., Ağbulut Ü., George S. M., Ramesh K., Saravanan R., Roberts K. L., Sharma P., Asif M., Hoang A. T.

Energy, cilt.275, 2023 (SCI-Expanded)

XCV. Energy recovery from waste plastic oils as an alternative fuel source and comparative assessment of engine characteristics at varying fuel injection timings

Mohan R. K., Sarojini J., Ağbulut Ü., Rajak U., Verma T. N., Reddy K. T.

Energy, cilt.275, 2023 (SCI-Expanded)

XCVI. Performance improvement and CO and HC emission reduction of variable compression ratio spark-ignition engine using n-pentanol as a fuel additive

Kothare C. B., Kongre S., Malwe P., Sharma K., Qasem N. A., Ağbulut Ü., Eldin S. M., Panchal H.

Alexandria Engineering Journal, cilt.74, ss.107-119, 2023 (SCI-Expanded)

XCVII. Multi-objective optimization based grey relational analysis and investigation of using the waste animal fat biodiesel on the engine characteristics

Gad M., El-Shafay A., Alqsair U. F., Ağbulut Ü., Attia E.

Fuel, cilt.343, 2023 (SCI-Expanded)

XCVIII. Application of modern approaches to the synthesis of biohydrogen from organic waste

Sharma P., Jain A., Bora B. J., Balakrishnan D., Show P. L., Ramaraj R., Ağbulut Ü., Khoo K. S.

International Journal of Hydrogen Energy, cilt.48, sa.55, ss.21189-21213, 2023 (SCI-Expanded)

XCIX. A study on a milk chiller latent storage system with phase change material encapsulated spherical balls Jilte R., Afzal A., Agbulut Ü., Alahmadi A. A., Alwetaishi M., Alzaed A. N.

C. A comprehensive review on the usage of the nano-sized particles along with diesel/biofuel blends and their impacts on engine behaviors

Gad M., Ağbulut Ü., Afzal A., Panchal H., Jayaraj S., Qasem N. A., El-Shafay A.

Fuel, cilt.339, 2023 (SCI-Expanded)

CI. Microalgae bio-oil production by pyrolysis and hydrothermal liquefaction: Mechanism and characteristics Ağbulut Ü., Sirohi R., Lichtfouse E., Chen W., Len C., Show P. L., Le A. T., Nguyen X. P., Hoang A. T.

Bioresource Technology, cilt.376, 2023 (SCI-Expanded)

Journal of Energy Storage, cilt 61, 2023 (SCI-Expanded)

CII. Impact of injector nozzle diameter and hole number on performance and emission characteristics of CI engine powered by nanoparticles

Kothiwale G., Akkoli K., Doddamani B., Kattimani S., Ağbulut Ü., Afzal A., Kaladgi A., Said Z.

International Journal of Environmental Science and Technology, cilt.20, sa.5, ss.5013-5034, 2023 (SCI-Expanded)

CIII. Poultry fat biodiesel as a fuel substitute in diesel-ethanol blends for DI-CI engine: Experimental, modeling and optimization

N S., Afzal A., V S. H., Ağbulut Ü., Alahmadi A. A., Gowda A. C., Alwetaishi M., Shaik S., Hoang A. T.

Energy, cilt.270, 2023 (SCI-Expanded)

CIV. Collective influence and optimization of 1-hexanol, fuel injection timing, and EGR to control toxic emissions from a light-duty agricultural diesel engine fueled with diesel/waste cooking oil methyl ester blends

De Poures M. V., Dillikannan D., Kaliyaperumal G., Thanikodi S., Ağbulut Ü., Hoang A. T., Mahmoud Z., Shaik S., Saleel C. A., Afzal A. Process Safety and Environmental Protection, cilt.172, ss.738-752, 2023 (SCI-Expanded)

CV. Thermodynamic analyses of a novel hybrid photovoltaic-thermal (PV/T) module assisted vapor compression refrigeration system

Yıldız G., Gürel A. E., Ceylan İ., Ergün A., Karaağaç M. O., Ağbulut Ü.

Journal of Building Engineering, cilt.64, 2023 (SCI-Expanded)

CVI. Waste to fuel: Pyrolysis of waste transformer oil and its evaluation as alternative fuel along with different nanoparticles in CI engine with exhaust gas recirculation

Sathish T., Surakasi R., KishoreT L., Rathinasamy S., Ağbulut Ü., Shaik S., Park S. G., Afzal A.

Energy, cilt.267, 2023 (SCI-Expanded)

CVII. Investigation of the effect of magnetic field on the PEC and exergy of heat exchanger filled with two-phase hybrid nanofluid, equipped with an edged twisted tape

El-Shafay A., Mohamed A. M., Ağbulut Ü., Gad M., El Maakoul A.

Engineering Analysis with Boundary Elements, cilt.148, ss.153-164, 2023 (SCI-Expanded)

CVIII. Enhancement of R600a vapour compression refrigeration system with MWCNT/TiO2 hybrid nano lubricants for net zero emissions building

Senthilkumar A., Prabhu L., Sathish T., Saravanan R., Casmir Jeyaseelan G., Ağbulut Ü., Mahmoud Z., Shaik S., Ahamed Saleel C. Sustainable Energy Technologies and Assessments, cilt.56, 2023 (SCI-Expanded)

CIX. Current practices, potentials, challenges, future opportunities, environmental and economic assumptions for Türkiye's clean and sustainable energy policy: A comprehensive assessment

Ağbulut Ü., Yıldız G., Bakır H., Polat F., Biçen Y., Ergün A., Gürel A. E.

Sustainable Energy Technologies and Assessments, cilt.56, 2023 (SCI-Expanded)

CX. Alternative fuel production from waste plastics and their usability in light duty diesel engine: Combustion, energy, and environmental analysis

Mohan R. K., Sarojini J., Rajak U., Verma T. N., Ağbulut Ü.

Energy, cilt.265, 2023 (SCI-Expanded)

CXI. Numerical and experimental investigation of the influence of various metal-oxide-based nanoparticles on performance, combustion, and emissions of CI engine fuelled with tamarind seed oil methyl ester

Kumbhar V., Pandey A., Sonawane C. R., Panchal H., Ağbulut Ü.

Energy, cilt.265, 2023 (SCI-Expanded)

CXII. A state of art review on estimation of solar radiation with various models

Gürel A. E., Ağbulut Ü., Bakır H., Ergün A., Yıldız G.

Heliyon, cilt9, sa.2, 2023 (SCI-Expanded)

CXIII. Hydrogen Production by Water Splitting with Support of Metal and Carbon-Based Photocatalysts

Hoang A. T., Pandey A., Chen W., Ahmed S. F., Nižetić S., Ng K. H., Said Z., Duong X. Q., Ağbulut Ü., Hadiyanto H., et al.

ACS Sustainable Chemistry and Engineering, cilt.11, sa.4, ss.1221-1252, 2023 (SCI-Expanded)

CXIV. Waste to energy: Production of poultry-based fat biodiesel and experimental assessment of its usability on engine behaviors

El-Shafay A., Ağbulut Ü., Attia E., Touileb K. L., Gad M.

Energy, cilt.262, 2023 (SCI-Expanded)

CXV. Effect of injection timing and duration on the performance of diesel engine fueled with port injection of oxygenated fuels

Ranganatha Swamy L., Banapurmath N., Chandrashekar T., Soudagar M. E. M., Gul M., Nik-Ghazali N., Mujtaba M., Shahapurkar K., Ağbulut Ü., Alshehri H. M., et al.

Chemical Engineering Communications, cilt.210, sa.6, ss.1060-1072, 2023 (SCI-Expanded)

CXVI. Exergetic, exergoeconomic, and sustainability analyses of diesel-biodiesel fuel blends including synthesized graphene oxide nanoparticles

Uysal C., Ağbulut Ü., Elibol E., Demirci T., Karagoz M., Saridemir S.

Fuel, cilt.327, 2022 (SCI-Expanded)

CXVII. Hydrothermal carbonization of food waste as sustainable energy conversion path

Son Le H., Chen W., Forruque Ahmed S., Said Z., Rafa N., Tuan Le A., Ağbulut Ü., Veza I., Phuong Nguyen X., Quang Duong X., et al. Bioresource Technology, cilt.363, 2022 (SCI-Expanded)

CXVIII. Understanding behaviors of compression ignition engine running on metal nanoparticle additives-included fuels: A control comparison between biodiesel and diesel fuel

Tuan Hoang A., Xuan Le M., Nižetić S., Huang Z., Ağbulut Ü., Veza I., Said Z., Tuan Le A., Dung Tran V., Phuong Nguyen X. Fuel, cilt.326, 2022 (SCI-Expanded)

CXIX. Hybrid optimization and modelling of CI engine performance and emission characteristics of novel hybrid biodiesel blends

Viswanathan V. K., Kaladgi A. R., Thomai P., Ağbulut Ü., Alwetaishi M., Said Z., Shaik S., Afzal A.

Renewable Energy, cilt.198, ss.549-567, 2022 (SCI-Expanded)

CXX. Numerical and experimental investigation of hydrogen enrichment in a dual-fueled CI engine: A detailed combustion, performance, and emission discussion

Rajak U., Nashine P., Verma T. N., Veza I., Ağbulut Ü.

International Journal of Hydrogen Energy, cilt.47, sa.76, ss.32741-32752, 2022 (SCI-Expanded)

CXXI. An experimental assessment of combustion and performance characteristics of a spark ignition engine fueled with co-fermentation biogas and gasoline dual fuel

Ağbulut Ü., Aydin M., Karagöz M., Deniz E., Çiftçi B.

Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, cilt.236, sa.4, ss.1330-1339, 2022 (SCI-Expanded)

CXXII. Forecasting of future greenhouse gas emission trajectory for India using energy and economic indexes with various metaheuristic algorithms

Bakır H., Ağbulut Ü., Gürel A. E., Yıldız G., Güvenç U., Soudagar M. E. M., Hoang A. T., Deepanraj B., Saini G., Afzal A. Journal of Cleaner Production, cilt.360, 2022 (SCI-Expanded)

CXXIII. Exergy, exergoeconomic, life cycle, and exergoenvironmental assessments for an engine fueled by diesel-

ethanol blends with aluminum oxide and titanium dioxide additive nanoparticles

Ağbulut Ü., Uysal C., Cavalcanti E. J., Carvalho M., Karagöz M., Saridemir S.

Fuel, cilt.320, 2022 (SCI-Expanded)

CXXIV. Energy, exergy, sustainability and economic analysis of waste tire pyrolysis oil blends with different nanoparticle additives in spark ignition engine

Yaqoob H., Teoh Y. H., Sher F., Jamil M. A., Ali M., Ağbulut Ü., Salam H. A., Arslan M., Soudagar M. E. M., Mujtaba M., et al. Energy, cilt.251, 2022 (SCI-Expanded)

CXXV. Experimental investigation of performance, combustion and emission characteristics of a variable compression ratio engine using low-density plastic pyrolyzed oil and diesel fuel blends

Rajak U., Panchal M., Veza I., Ağbulut Ü., Nath Verma T., Sarıdemir S., Shende V.

Fuel, cilt.319, 2022 (SCI-Expanded)

CXXVI. A novel stochastic model for very short-term wind speed forecasting in the determination of wind energy potential of a region: A case study from Turkey

Ağbulut Ü.

Sustainable Energy Technologies and Assessments, cilt.51, 2022 (SCI-Expanded)

CXXVII. Influence of injection timing on performance, combustion and emission characteristics of a diesel engine running on hydrogen-diethyl ether, n-butanol and biodiesel blends

Chaurasiya P. K., Rajak U., Veza I., Verma T. N., Ağbulut Ü.

International Journal of Hydrogen Energy, cilt.47, sa.41, ss.18182-18193, 2022 (SCI-Expanded)

CXXVIII. Energetic, exergetic, and thermoeconomic analyses of different nanoparticles-added lubricants in a heat pump water heater

Yıldız G., Ağbulut Ü., Gürel A. E., Ergün A., Afzal A., Saleel C. A.

Case Studies in Thermal Engineering, cilt.33, 2022 (SCI-Expanded)

CXXIX. An experimental assessment on dual fuel engine behavior powered by waste tire-derived pyrolysis oil – biogas blends

Karagöz M., Polat F., Sarıdemir S., YEŞİLYURT M. K., Ağbulut Ü.

Fuel Processing Technology, cilt.229, 2022 (SCI-Expanded)

CXXX. Synthesis of graphene oxide nanoparticles and the influences of their usage as fuel additives on CI engine behaviors

Ağbulut Ü., Elibol E., Demirci T., Sarıdemir S., Gürel A. E., Rajak U., Afzal A., Verma T. N.

Energy, cilt.244, 2022 (SCI-Expanded)

CXXXI. Exergy, sustainability and performance analysis of ground source direct evaporative cooling system Yıldız G., Ergün A., Gürel A. E., Ceylan İ., Ağbulut Ü., Eser S., Afzal A., Saleel C.

Case Studies in Thermal Engineering, cilt31, 2022 (SCI-Expanded)

CXXXII. Influences of hydrogen addition from different dual-fuel modes on engine behaviors

Khandal S. V., Ağbulut Ü., Afzal A., Sharifpur M., Abdul Razak K., Khalilpoor N.

Energy Science and Engineering, cilt 10, sa.3, ss.881-891, 2022 (SCI-Expanded)

CXXXIII. Waste to Energy: An experimental comparison of burning the waste-derived bio-oils produced by transesterification and pyrolysis methods

Gad M., Panchal H., Ağbulut Ü.

Energy, cilt.242, 2022 (SCI-Expanded)

CXXXIV. Experimental assessment of the influences of liquid-solid-gas fuel blends on DI-CI engine behaviors Polat F., YEŞİLYURT M. K., Ağbulut Ü., Karagöz M., Sarıdemir S.

Process Safety and Environmental Protection, cilt.159, ss.511-524, 2022 (SCI-Expanded)

CXXXV. A detailed investigation of the temperature-controlled fluidized bed solar dryer: A numerical, experimental, and modeling study

Gürel A. E., Ağbulut Ü., Ergün A., Ceylan İ., SÖZEN A., Tuncer A. D., Khanlari A.

Sustainable Energy Technologies and Assessments, cilt.49, 2022 (SCI-Expanded)

CXXXVI. Numerical and experimental analysis of parallel-pass forced convection solar air heating wall with different plenum and absorber configurations

Khanlari A., SÖZEN A., Afshari F., Tuncer A. D., Ağbulut Ü., AYTAÇ YILMAZ Z.

International Journal of Numerical Methods for Heat and Fluid Flow, cilt.32, sa.3, ss.978-1001, 2022 (SCI-Expanded)

CXXXVII. Numerical and experimental investigation of CI engine behaviours supported by zinc oxide nanomaterial along with diesel fuel

Rajak U., Ağbulut Ü., Veza I., Dasore A., Sarıdemir S., Verma T. N.

Energy, cilt.239, 2022 (SCI-Expanded)

CXXXVIII. Optimization of Thermal and Structural Design in Lithium-Ion Batteries to Obtain Energy Efficient Battery
Thermal Management System (BTMS): A Critical Review

Fayaz H., Afzal A., Samee A. D. M., Soudagar M. E. M., Akram N., Mujtaba M., Jilte R., Islam M. T., Ağbulut Ü., Saleel C. A. Archives of Computational Methods in Engineering, cilt.29, sa.1, ss.129-194, 2022 (SCI-Expanded)

CXXXIX. Experimental and numerical assessment of the rotary bed reactor for fuel-processing and evaluation of produced oil usability as fuel substitute

Gad M., Ağbulut Ü., El-Shafay A., Panchal H., Emara K., Al-Mdallal Q. M., Afzal A.

Case Studies in Thermal Engineering, cilt.29, 2022 (SCI-Expanded)

CXL. Combustion, performance, vibration and noise characteristics of cottonseed methyl ester-diesel blends fuelled engine

Sarıdemir S., Ağbulut Ü.

Biofuels, cilt 13, sa 2, ss 201-210, 2022 (SCI-Expanded)

CXLI. Forecasting of transportation-related energy demand and CO2 emissions in Turkey with different machine learning algorithms

Ağbulut Ü.

Sustainable Production and Consumption, cilt.29, ss.141-157, 2022 (SCI-Expanded)

CXLII. Understanding the role of nanoparticle size on energy, exergy, thermoeconomic, exergoeconomic, and sustainability analyses of an IC engine: A thermodynamic approach

Ağbulut Ü.

Fuel Processing Technology, cilt.225, 2022 (SCI-Expanded)

CXLIII. An enhancement in diesel engine performance, combustion, and emission attributes fueled with Eichhornia crassipes oil and copper oxide nanoparticles at different injection pressures

Khan O., Khan M. Z., Khan E., Bhatt B. K., Afzal A., Ağbulut Ü., Shaik S.

Energy Sources, Part A: Recovery, Utilization and Environmental Effects, cilt.44, sa.3, ss.6501-6522, 2022 (SCI-Expanded)

CXLIV. A detailed analysis of CPV/T solar air heater system with thermal energy storage: A novel winter season application

Ceylan İ., Gürel A. E., Ergün A., Guma Ali İ. H., Ağbulut Ü., Yıldız G.

Journal of Building Engineering, cilt.42, 2021 (SCI-Expanded)

CXLV. A review of stability, thermophysical properties and impact of using nanofluids on the performance of refrigeration systems Synthèse de la stabilité, des propriétés thermophysiques et de l'impact de l'utilisation de nanofluides sur les performances des systèmes frigorifiques

Yıldız G., Ağbulut Ü., Gürel A. E.

International Journal of Refrigeration, cilt.129, ss.342-364, 2021 (SCI-Expanded)

CXLVI. Blends of scum oil methyl ester, alcohols, silver nanoparticles and the operating conditions affecting the diesel engine performance and emission: an optimization study using Dragon fly algorithm

Afzal A., Ağbulut Ü., Soudagar M. E. M., Razak R. K. A., Buradi A., Saleel C. A.

Applied Nanoscience (Switzerland), cilt.11, sa.9, ss.2415-2432, 2021 (SCI-Expanded)

CXLVII. Effects of high-dosage copper oxide nanoparticles addition in diesel fuel on engine characteristics Ağbulut Ü., Sarıdemir S., Rajak U., Polat F., Afzal A., Verma T. N.

Energy, cilt.229, 2021 (SCI-Expanded)

CXLVIII. A comprehensive study on the influences of different types of nano-sized particles usage in diesel-bioethanol blends on combustion, performance, and environmental aspects

Ağbulut Ü., Polat F., Sarıdemir S.

Energy, cilt.229, 2021 (SCI-Expanded)

CXLIX. Integrated Taguchi-GRA-RSM optimization and ANN modelling of thermal performance of zinc oxide nanofluids in an automobile radiator

Razak Kaladgi A., Afzal A., Manokar A. M., Thakur D., Agbulut Ü., Alshahrani S., Saleel C A., Subbiah R.

Case Studies in Thermal Engineering, cilt.26, 2021 (SCI-Expanded)

CL. Wastes to energy: Improving the poor properties of waste tire pyrolysis oil with waste cooking oil methyl ester and waste fusel alcohol – A detailed assessment on the combustion, emission, and performance characteristics of a CI engine

Ağbulut Ü., YEŞİLYURT M. K., Sarıdemir S.

Energy, cilt.222, 2021 (SCI-Expanded)

CLI. Experimental analysis of CPV/T solar dryer with nano-enhanced PCM and prediction of drying parameters using ANN and SVM algorithms

Karaağaç M. O., Ergün A., Ağbulut Ü., Gürel A. E., Ceylan İ.

Solar Energy, cilt.218, ss.57-67, 2021 (SCI-Expanded)

CLII. Electricity production based forecasting of greenhouse gas emissions in Turkey with deep learning, support vector machine and artificial neural network algorithms

Bakay M. S., Ağbulut Ü.

Journal of Cleaner Production, cilt. 285, 2021 (SCI-Expanded)

CLIII. Experimental investigation and prediction of performance and emission responses of a CI engine fuelled with different metal-oxide based nanoparticles-diesel blends using different machine learning algorithms

Ağbulut Ü., Gürel A. E., Sarıdemir S.

Energy, cilt.215, 2021 (SCI-Expanded)

CLIV. Exergetic and exergoeconomic analyses of a CI engine fueled with diesel-biodiesel blends containing various metal-oxide nanoparticles

Karagoz M., Uysal C., Agbulut Ü., Saridemir S.

Energy, cilt.214, 2021 (SCI-Expanded)

CLV. Prediction of daily global solar radiation using different machine learning algorithms: Evaluation and comparison

Ağbulut Ü., Gürel A. E., Biçen Y.

Renewable and Sustainable Energy Reviews, cilt.135, 2021 (SCI-Expanded)

CLVI. Assessment of machine learning, time series, response surface methodology and empirical models in prediction of global solar radiation

Gürel A. E., Ağbulut Ü., Biçen Y.

Journal of Cleaner Production, cilt.277, 2020 (SCI-Expanded)

CLVII. Performance assessment of a V-trough photovoltaic system and prediction of power output with different machine learning algorithms

Ağbulut Ü., Gürel A. E., Ergün A., Ceylan İ.

Journal of Cleaner Production, cilt. 268, 2020 (SCI-Expanded)

CLVIII. Waste to energy: Production of waste tire pyrolysis oil and comprehensive analysis of its usability in diesel engines

Karagöz M., Ağbulut Ü., Sarıdemir S.

Fuel, cilt.275, 2020 (SCI-Expanded)

CLIX. Performance assessment of a novel design concentrated photovoltaic system coupled with self-cleaning and cooling processes

Acar B., Gürel A. E., Ergün A., Ceylan İ., Ağbulut Ü., Can A.

Environmental Progress and Sustainable Energy, cilt.39, sa.5, 2020 (SCI-Expanded)

CLX. Energy, exergy, economic and sustainability assessments of a compression ignition diesel engine fueled with tire pyrolytic oil—diesel blends

Karagoz M., Uysal C., Agbulut Ü., Saridemir S.

Journal of Cleaner Production, cilt. 264, 2020 (SCI-Expanded)

CLXI. Investigating the role of fuel injection pressure change on performance characteristics of a DI-CI engine fuelled with methyl ester

Sarıdemir S., Etem Gürel A., Ağbulut Ü., BAKAN A. F.

Fuel, cilt.271, 2020 (SCI-Expanded)

CLXII. Impact of various metal-oxide based nanoparticles and biodiesel blends on the combustion, performance, emission, vibration and noise characteristics of a CI engine

Ağbulut Ü., Karagöz M., Sarıdemir S., Öztürk A.

Fuel, cilt.270, 2020 (SCI-Expanded)

CLXIII. Experimental investigation of fusel oil (isoamyl alcohol) and diesel blends in a CI engine

Ağbulut Ü., Sarıdemir S., Karagöz M.

Fuel, cilt.267, 2020 (SCI-Expanded)

CLXIV. Prediction of performance, combustion and emission characteristics for a CI engine at varying injection pressures

Ağbulut Ü., Ayyıldız M., Sarıdemir S.

Energy, cilt.197, 2020 (SCI-Expanded)

CLXV. Is the ethanol additive more environmentally friendly for a spark ignition (SI) engine or for a compression ignition (CI) engine?

Ağbulut Ü., Sarıdemir S.

Environmental Engineering and Management Journal, cilt.19, sa.4, ss.633-642, 2020 (SCI-Expanded)

CLXVI. Environmental and economic assessment of a low energy consumption household refrigerator

Gürel A. E., Ağbulut Ü., Ergün A., Ceylan İ.

Engineering Science and Technology, an International Journal, cilt23, sa.2, ss.365-372, 2020 (SCI-Expanded)

CLXVII. Energy, exergy, and environmental (3e) assessments of various refrigerants in the refrigeration systems with internal heat exchanger

Gürel A. E., Agbulut Ü., Ergün A., Yildiz G.

Heat Transfer Research, cilt.51, sa.11, ss.1029-1041, 2020 (SCI-Expanded)

CLXVIII. Performance analysis of using CuO-Methanol nanofluid in a hybrid system with concentrated air collector and vacuum tube heat pipe

Kaya M., Gürel A. E., Ağbulut Ü., Ceylan İ., Çelik S., Ergün A., Acar B.

Energy Conversion and Management, cilt.199, 2019 (SCI-Expanded)

CLXIX. Turkey's electricity generation problem and nuclear energy policy

Ağbulut Ü.

Energy Sources, Part A: Recovery, Utilization and Environmental Effects, cilt.41, sa.18, ss.2281-2298, 2019 (SCI-Expanded)

CLXX. Experimental investigation of combustion, performance and emission characteristics of a diesel engine fuelled with diesel-biodiesel-alcohol blends

Ağbulut Ü., Sarıdemir S., Albayrak S.

Journal of the Brazilian Society of Mechanical Sciences and Engineering, cilt.41, sa.9, 2019 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. Experimental and statistical assessment for Hydrogen-powered dual-fuel diesel engine using a novel biodiesel blend at variable injection pressure

Jain A., Bora B. J., Kumar R., Sharma P., Barik D., Medhi B. J., AĞBULUT Ü.

International Journal of Thermofluids, cilt.24, 2024 (Scopus)

II. Effect of the use of metal-oxide and boron-based nanoparticles on the performance in a photovoltaic thermal module (PV/T): Experimental study

Dalmış M., Gürel A. E., Yıldız G., Ergün A., AĞBULUT Ü.

International Journal of Thermofluids, cilt.24, 2024 (Scopus)

III. A hybrid MCDM optimization for utilization of novel set of biosynthesized nanofluids on thermal performance for solar thermal collectors

Khan F., Karimi M. N., Khan O., Yadav A. K., Alhodaib A., Gürel A. E., AĞBULUT Ü.

International Journal of Thermofluids, cilt.22, 2024 (Scopus)

IV. Application of various machine learning algorithms in view of predicting the CO2 emissions in the transportation sector

ÇINARER G., YEŞİLYURT M. K., Ağbulut Ü., YILBAŞI Z., KILIÇ K.

Science and Technology for Energy Transition (STET), cilt. 79, 2024 (Scopus)

V. The history of greenhouse gas emissions and relation with the nuclear energy policy for Turkey

Ağbulut Ü., Ceylan İ., Gürel A. E., Ergün A.

International Journal of Ambient Energy, cilt.42, sa.12, ss.1447-1455, 2021 (ESCI)

VI. A general view to converting fossil fuels to cleaner energy source by adding nanoparticles

Ağbulut Ü., Sarıdemir S.

International Journal of Ambient Energy, cilt.42, sa.13, ss.1569-1574, 2021 (ESCI)

VII. Mathematical calculation and experimental investigation of expanded perlite based heat insulation materials' thermal conductivity values

ULUER O., AKTAŞ M., KARAAĞAÇ İ., DURMUŞ G., Khanlari A., Ağbulut Ü., ÇELİK D. N.

Journal of Thermal Engineering, cilt.4, sa.5, ss.2274-2286, 2018 (Scopus)

Metrikler

Yayın: 177

Atıf (Scopus): 5688 H-İndeks (Scopus): 45