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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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- LXXX. **Investigation of nano composite heat exchanger annular pipeline flow using CFD analysis for crude oil and water characteristics**  
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- LXXXI. **Combustion, performance and emission discussion of soapberry seed oil methyl ester blends and exhaust gas recirculation in common rail direct fuel injection system**  
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- LXXXIV. **Investigations on a novel fuel water hyacinth biodiesel and Hydrogen-Powered engine in Dual-Fuel Model: Optimization with I-optimal design and desirability**  
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- LXXXV. **Experimental analysis on the impacts of soil deposition and bird droppings on the thermal performance of photovoltaic panels**  
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- LXXXVIII. **Energy recovery from waste plastic oils as an alternative fuel source and comparative assessment of engine characteristics at varying fuel injection timings**  
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- LXXXIX. **Waste to fuel: Synergetic effect of hybrid nanoparticle usage for the improvement of CI engine characteristics fuelled with waste fish oils**  
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- XC. **Optimization of performance and emission outputs of a CI engine powered with waste fat biodiesel: A detailed RSM, fuzzy multi-objective and MCDM application**  
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- XCI. **Performance improvement and CO and HC emission reduction of variable compression ratio spark-ignition engine using n-pentanol as a fuel additive**  
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- XCII. **Multi-objective optimization based grey relational analysis and investigation of using the waste animal fat biodiesel on the engine characteristics**  
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- XCVI. Poultry fat biodiesel as a fuel substitute in diesel-ethanol blends for DI-CI engine: Experimental, modeling and optimization**  
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- XCIX. 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**  
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- C. Thermodynamic analyses of a novel hybrid photovoltaic-thermal (PV/T) module assisted vapor compression refrigeration system**  
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- CIV. Current practices, potentials, challenges, future opportunities, environmental and economic assumptions for Türkiye's clean and sustainable energy policy: A comprehensive assessment**  
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- CV. Alternative fuel production from waste plastics and their usability in light duty diesel engine: Combustion, energy, and environmental analysis**  
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- CVI. 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**  
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- CX. Effect of injection timing and duration on the performance of diesel engine fueled with port injection of oxygenated fuels**  
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- CXII. Exergetic, exergoeconomic, and sustainability analyses of diesel–biodiesel fuel blends including synthesized graphene oxide nanoparticles**  
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- CXIII. Understanding behaviors of compression ignition engine running on metal nanoparticle additives-included fuels: A control comparison between biodiesel and diesel fuel**  
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- CXIV. Hybrid optimization and modelling of CI engine performance and emission characteristics of novel hybrid biodiesel blends**  
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- CXV. Numerical and experimental investigation of hydrogen enrichment in a dual-fueled CI engine: A detailed combustion, performance, and emission discussion**  
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- CXVI. An experimental assessment of combustion and performance characteristics of a spark ignition engine fueled with co-fermentation biogas and gasoline dual fuel**  
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- CXVII. Forecasting of future greenhouse gas emission trajectory for India using energy and economic indexes with various metaheuristic algorithms**  
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- CXIX. Energy, exergy, sustainability and economic analysis of waste tire pyrolysis oil blends with different nanoparticle additives in spark ignition engine**  
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- CXX. Experimental investigation of performance, combustion and emission characteristics of a variable compression ratio engine using low-density plastic pyrolyzed oil and diesel fuel blends**  
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- CXXI. 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**  
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- CXXII. Influence of injection timing on performance, combustion and emission characteristics of a diesel engine running on hydrogen-diethyl ether, n-butanol and biodiesel blends**  
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- CXXIV. **An experimental assessment on dual fuel engine behavior powered by waste tire-derived pyrolysis oil – biogas blends**  
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- CXXV. **Synthesis of graphene oxide nanoparticles and the influences of their usage as fuel additives on CI engine behaviors**  
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- CXXX. **A detailed investigation of the temperature-controlled fluidized bed solar dryer: A numerical, experimental, and modeling study**  
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- CXXXI. **Numerical and experimental analysis of parallel-pass forced convection solar air heating wall with different plenum and absorber configurations**  
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- CXXXIV. **Optimization of Thermal and Structural Design in Lithium-Ion Batteries to Obtain Energy Efficient Battery Thermal Management System (BTMS): A Critical Review**  
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- CXXXV. **Forecasting of transportation-related energy demand and CO<sub>2</sub> emissions in Turkey with different machine learning algorithms**  
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Sarıdemir S., Etem Gürel A., Ağbulut Ü., BAKAN A. F.  
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- CLVII.** **Impact of various metal-oxide based nanoparticles and biodiesel blends on the combustion, performance, emission, vibration and noise characteristics of a CI engine**  
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