Ftwi Yohaness Hagos

List of Publications by Year
in descending order

75 papers	2,445 citations	331259 21 h-index	214527 47 g-index
75 all docs	75 docs citations	75 times ranked	2414 citing authors

#	Article	IF	Citations
1	Investigation of combustion, performance, and emissions of biodiesel blends using graphene nanoparticle as an additive. International Journal of Engine Research, 2023, 24, 4459-4469.	1.4	4
2	RecoveryÂof gas wasteÂfrom the petroleum industry: a review. Environmental Chemistry Letters, 2022, 20, 263-281.	8.3	2
3	Combustion characteristics of tri-fuel (diesel-ethanol-biodiesel) emulsion fuels in CI engine with micro-explosion phenomenon attributes. Fuel, 2022, 312, 122933.	3.4	19
4	Improvements in hydrogen production from methane dry reforming on filament-shaped mesoporous alumina-supported cobalt nanocatalyst. International Journal of Hydrogen Energy, 2021, 46, 24781-24790.	3.8	16
5	Improved thermal energy storage behavior of polyethylene glycol-based NEOPCM containing aluminum oxide nanoparticles for solar thermal applications. Journal of Thermal Analysis and Calorimetry, 2021, 143, 1881-1892.	2.0	22
6	Performance and Emission Characteristics of Microbubble-Enhanced Fuels in a Diesel Engine. Energy & Fuels, 2021, 35, 2630-2638.	2.5	0
7	Engine Emissions Analysis of Emulsified Fuel of Different Blend Ratios. IOP Conference Series: Materials Science and Engineering, 2021, 1062, 012016.	0.3	1
8	Assessment of Biofuel Resource Potential, Prospects, Challenges and Utilization in Ethiopia: Sourcing Strategies for Renewable Energies- A Review. IOP Conference Series: Materials Science and Engineering, 2021, 1104, 012003.	0.3	1
9	Macroscopic and microscopic spray structure of water-in-diesel emulsions. Energy, 2021, 223, 120040.	4.5	10
10	The role of nanoparticles on biofuel production and as an additive in ternary blend fuelled diesel engine: A review. Energy Reports, 2021, 7, 3614-3627.	2.5	68
11	Diesel and various blending nanoparticles based diesel, fuel properties study. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012061.	0.3	0
12	Performance and emission of turbocharger engine using gasoline and ethanol blends. IOP Conference Series: Materials Science and Engineering, 2020, 863, 012034.	0.3	4
13	Experimental investigation on pineapple leaf fiber as biomass source for renewable energy application. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012059.	0.3	1
14	Syngas production through steam and CO₂ reforming of methane over Ni-based catalyst-A Review. IOP Conference Series: Materials Science and Engineering, 2020, 736, 042032.	0.3	10
15	The characteristics of water-in-biodiesel emulsions produced using ultrasonic homogenizer. AEJ - Alexandria Engineering Journal, 2020, 59, 227-237.	3.4	12
16	Kinetic and CFD Modeling of Exhaust Gas Reforming of Natural Gas in a Catalytic Fixedâ€Bed Reactor for Spark Ignition Engines. Chemical Engineering and Technology, 2020, 43, 705-718.	0.9	9
17	The performance of turbocharged diesel engine with injected calophyllum inophyllum methyl ester blends and inducted babul wood gaseous fuels. Fuel, 2019, 257, 116060.	3.4	14
18	Tri-fuel emulsion with secondary atomization attributes for greener diesel engine â€“ A critical review. Renewable and Sustainable Energy Reviews, 2019, 111, 490-506.	8.2	24

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19	The Influence of Formulation Ratio and Emulsifying Settings on Tri-Fuel (Dieselâ€“Ethanolâ€“Biodiesel) Emulsion Properties. Energies, 2019, 12, 1708.	1.6	15
20	An experimental study of the performance and emission characteristics of a compression ignition (CI) engine fueled with palm oil based biodiesel. AIP Conference Proceedings, 2019, , .	0.3	2
21	A comparative analysis on emissions of some next generation long-chain alcohol/diesel blends in a direct-injection diesel engine. AIP Conference Proceedings, 2019, , .	0.3	3
22	Comparison between tri-fuel (diesel-ethanol-biodiesel) emulsion with and without surfactant. AIP Conference Proceedings, 2019, , .	0.3	2
23	The effect of thermal cyclic variation on the thermophysical property degradation of paraffin as a phase changing energy storage material. Applied Thermal Engineering, 2019, 149, 22-33.	3.0	43
24	Engine speed and air-fuel ratio effect on the combustion of methane augmented hydrogen rich syngas in DI SI engine. International Journal of Hydrogen Energy, 2019, 44, 477-486.	3.8	31
25	Reductions of Particulate Matter Emissions of a Diesel Engine Fueled with Oxygenated and Emulsion Fuels. Journal of Biobased Materials and Bioenergy, 2019, 13, 764-777.	0.1	2
26	Analysis of combustion characteristics, engine performances and emissions of long-chain alcohol-diesel fuel blends. Fuel, 2018, 220, 682-691.	3.4	66
27	Effect of Alcohol on Diesel Engine Combustion Operating with Biodiesel-Diesel Blend at Idling Conditions. IOP Conference Series: Materials Science and Engineering, 2018, 318, 012071.	0.3	8
28	Indoor Air Quality Evaluation of Commercial Buildings In Kuantan. MATEC Web of Conferences, 2018, 225, 05018.	0.1	2
29	Investigation of Water-in-Biodiesel Emulsion Characteristics Produced by Ultrasonic Homogenizer. MATEC Web of Conferences, 2018, 225, 01012.	0.1	4
30	Natural Gas Engine Technologies: Challenges and Energy Sustainability Issue. Energies, 2018, 11, 2934.	1.6	71
31	Comparative Analysis of Diesel, Diesel-Palm Biodiesel and Diesel-Biodiesel-Butanol Blends in Diesel Engine. , 2018, , .		0
32	Biodiesel as alternative fuel for marine diesel engine applications: A review. Renewable and Sustainable Energy Reviews, 2018, 94, 127-142.	8.2	257
33	Comparative Analysis on Performance and Emission Characteristic of Diesel Engine Fueled with Heated Coconut Oil and Diesel Fuel. International Journal of Automotive and Mechanical Engineering, 2018, 15, 5110-5125.	0.5	56
34	The effect of adding fusel oil to diesel on the performance and the emissions characteristics in a single cylinder CI engine. Journal of the Energy Institute, 2017, 90, 382-396.	2.7	50
35	Production, characterization and performance of biodiesel as an alternative fuel in diesel engines â€“ A review. Renewable and Sustainable Energy Reviews, 2017, 72, 497-509.	8.2	477
36	Thermal performance of gas turbine power plant based on exergy analysis. Applied Thermal Engineering, 2017, 115, 977-985.	3.0	104

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37	Calorific value enhancement of fusel oil by moisture removal and its effect on the performance and combustion of a spark ignition engine. Energy Conversion and Management, 2017, 137, 86-96.	4.4	43
38	Transient modelling of heat loading of phase change material for energy storage. MATEC Web of Conferences, 2017, 90, 01078.	0.1	3
39	Development of nanolubricant automotive air conditioning (AAC) test rig. MATEC Web of Conferences, 2017, 90, 01050.	0.1	12
40	An experimental study on the thermal conductivity and dynamic viscosity of TiO 2 -SiO 2 nanofluids in water: Ethylene glycol mixture. International Communications in Heat and Mass Transfer, 2017, 86, 181-189.	2.9	200
41	Effect of fuel injection timing of hydrogen rich syngas augmented with methane in direct-injection spark-ignition engine. International Journal of Hydrogen Energy, 2017, 42, 23846-23855.	3.8	20
42	Corrosion effect of phase change materials in solar thermal energy storage application. Renewable and Sustainable Energy Reviews, 2017, 76, 19-33.	8.2	107
43	Using fusel oil as a blend in gasoline to improve SI engine efficiencies: A comprehensive review. Renewable and Sustainable Energy Reviews, 2017, 69, 1232-1242.	8.2	68
44	Combined effect of boost pressure and injection timing on the performance and combustion of CNG in a DI spark ignition engine. International Journal of Automotive Technology, 2017, 18, 85-96.	0.7	15
45	Effect of emulsification and blending on the oxygenation and substitution of diesel fuel for compression ignition engine. Renewable and Sustainable Energy Reviews, 2017, 75, 1281-1294.	8.2	60
46	Tri-fuel (diesel-biodiesel-ethanol) emulsion characterization, stability and the corrosion effect. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012082.	0.3	10
47	Characteristics of Early Flame Development in a Direct-Injection Spark-Ignition CNG Engine Fitted with a Variable Swirl Control Valve. Energies, 2017, 10, 964.	1.6	7
48	A study of the stabilities, microstructures and fuel characteristics of tri-fuel (diesel-biodiesel-ethanol) using various fuel preparation methods. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012077.	0.3	7
49	Combustion and Performance of Syngas Dual Fueling in a CI Engine with Blended Biodiesel as Pilot Fuel. BioResources, 2017, 12, .	0.5	8
50	Effect of oxygenate additive on diesel engine fuel consumption and emissions operating with biodiesel-diesel blend at idling conditions. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012084.	0.3	2
51	Experimental investigation of the impact of using alcohol- biodiesel-diesel blending fuel on combustion of single cylinder CI engine. IOP Conference Series: Materials Science and Engineering, 2016, 160, 012038.	0.3	8
52	Impact of oxygenated additives to diesel-biodiesel blends in the context of performance and emissions characteristics of a CI engine. IOP Conference Series: Materials Science and Engineering, 2016, 160, 012060.	0.3	3
53	Micro Combined Heat and Power to provide heat and electrical power using biomass and Gamma-type Stirling engine. Applied Thermal Engineering, 2016, 103, 1460-1469.	3.0	50
54	Effect of injection timing on combustion, performance and emissions of lean-burn syngas (H2/CO) in spark-ignition direct-injection engine. International Journal of Engine Research, 2016, 17, 921-933.	1.4	11

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55	Experimental and simulation study on steam gasification of phoenix-dactylifera date palm seeds. International Journal of Automotive and Mechanical Engineering, 2016, 13, 3201-3214.	0.5	0
56	Experimental study on the effect of varying syngas composition on the emissions of dual fuel CI engine operating at various engine speeds. IOP Conference Series: Materials Science and Engineering, 2015, 100, 012006.	0.3	6
57	Preparing side charging of PCM storage: theoretical and experimental investigation. IOP Conference Series: Materials Science and Engineering, 2015, 100, 012021.	0.3	3
58	Methane enrichment of syngas (H2/CO) in a spark-ignition direct-injection engine: Combustion, performance and emissions comparison with syngas and Compressed Natural Gas. Energy, 2015, 90, 2006-2015.	4.5	43
59	Investigation of deposit formation in direct-injection spark-ignition engine powered on syngas. International Journal of Automotive Technology, 2015, 16, 479-485.	0.7	7
60	Energy audit and waste heat recovery system design for a cement rotary kiln in Ethiopia: A case study. International Journal of Automotive and Mechanical Engineering, 2015, 12, 2983-3002.	0.5	12
61	Current Trends in Water-in-Diesel Emulsion as a Fuel. Scientific World Journal, The, 2014, 2014, 1-15.	0.8	59
62	Solar Energy Resource Assessment of the Geba Catchment, Northern Ethiopia. Energy Procedia, 2014, 57, 1266-1274.	1.8	15
63	Effect of Air-fuel Ratio on the Combustion Characteristics of Syngas (H2:CO) in Direct-injection Spark-ignition Engine. Energy Procedia, 2014, 61, 2567-2571.	1.8	17
64	Syngas (H 2 /CO) in a spark-ignition direct-injection engine. Part 1: Combustion, performance and emissions comparison with CNG. International Journal of Hydrogen Energy, 2014, 39, 17884-17895.	3.8	49
65	Trends of Syngas as a Fuel in Internal Combustion Engines. Advances in Mechanical Engineering, 2014, 6, 401587.	0.8	66
66	Wind Energy Data Analysis and Resource Mapping of Geba Catchment, North Ethiopia. Wind Engineering, 2013, 37, 333-345.	1.1	12
67	Early flame development image comparison of low calorific value syngas and CNG in DI SI gas engine. IOP Conference Series: Earth and Environmental Science, 2013, 16, 012070.	0.2	0
68	Effect of Compressed Natural Gas Mixing on the Engine Performance and Emissions. International Journal of Automotive and Mechanical Engineering, 2013, 8, 1416-1429.	0.5	18
69	Study of Syngas Combustion Parameters Effect on Internal Combustion Engine. Asian Journal of Scientific Research, 2013, 6, 187-196.	0.3	20
70	Combustion Characteristics of Late Injected CNG in a Spark Ignition Engine under Lean Operating Condition. Journal of Applied Sciences, 2012, 12, 2368-2375.	0.1	19
71	Water-in-diesel emulsion and its micro-explosion phenomenon-review. , 2011, , .		22
72	Mass Fraction Burn Investigation of Lean Burn Low BTU Gasification Gas in Direct-injection Spark-ignition Engine. , 0, , .		5

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73	Exhaust Emission Reduction of Diesel Engine Fueled with Emulsified Palm Oil Methyl Esters. Applied Mechanics and Materials, 0, 660, 457-461.	0.2	3
74	Low and Medium Calorific Value Gasification Gas Combustion in IC Engines. , 0, , .		4
75	A review of the performance and emissions of nano additives in diesel fuelled compression ignition-engines. IOP Conference Series: Materials Science and Engineering, 0, 469, 012035.	0.3	21