

Ftwi Yohannes Hagos

List of Publications by Year in descending order

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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	Production, characterization and performance of biodiesel as an alternative fuel in diesel engines – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 72, 497-509.	8.2	477
2	Biodiesel as alternative fuel for marine diesel engine applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 94, 127-142.	8.2	257
3	An experimental study on the thermal conductivity and dynamic viscosity of TiO ₂ -SiO ₂ nanofluids in water: Ethylene glycol mixture. <i>International Communications in Heat and Mass Transfer</i> , 2017, 86, 181-189.	2.9	200
4	Corrosion effect of phase change materials in solar thermal energy storage application. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 76, 19-33.	8.2	107
5	Thermal performance of gas turbine power plant based on exergy analysis. <i>Applied Thermal Engineering</i> , 2017, 115, 977-985.	3.0	104
6	Natural Gas Engine Technologies: Challenges and Energy Sustainability Issue. <i>Energies</i> , 2018, 11, 2934.	1.6	71
7	Using fusel oil as a blend in gasoline to improve SI engine efficiencies: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 1232-1242.	8.2	68
8	The role of nanoparticles on biofuel production and as an additive in ternary blend fuelled diesel engine: A review. <i>Energy Reports</i> , 2021, 7, 3614-3627.	2.5	68
9	Trends of Syngas as a Fuel in Internal Combustion Engines. <i>Advances in Mechanical Engineering</i> , 2014, 6, 401587.	0.8	66
10	Analysis of combustion characteristics, engine performances and emissions of long-chain alcohol-diesel fuel blends. <i>Fuel</i> , 2018, 220, 682-691.	3.4	66
11	Effect of emulsification and blending on the oxygenation and substitution of diesel fuel for compression ignition engine. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 75, 1281-1294.	8.2	60
12	Current Trends in Water-in-Diesel Emulsion as a Fuel. <i>Scientific World Journal</i> , The, 2014, 2014, 1-15.	0.8	59
13	Comparative Analysis on Performance and Emission Characteristic of Diesel Engine Fueled with Heated Coconut Oil and Diesel Fuel. <i>International Journal of Automotive and Mechanical Engineering</i> , 2018, 15, 5110-5125.	0.5	56
14	Micro Combined Heat and Power to provide heat and electrical power using biomass and Gamma-type Stirling engine. <i>Applied Thermal Engineering</i> , 2016, 103, 1460-1469.	3.0	50
15	The effect of adding fusel oil to diesel on the performance and the emissions characteristics in a single cylinder CI engine. <i>Journal of the Energy Institute</i> , 2017, 90, 382-396.	2.7	50
16	Syngas (H ₂ /CO) in a spark-ignition direct-injection engine. Part 1: Combustion, performance and emissions comparison with CNG. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17884-17895.	3.8	49
17	Methane enrichment of syngas (H ₂ /CO) in a spark-ignition direct-injection engine: Combustion, performance and emissions comparison with syngas and Compressed Natural Gas. <i>Energy</i> , 2015, 90, 2006-2015.	4.5	43
18	Calorific value enhancement of fusel oil by moisture removal and its effect on the performance and combustion of a spark ignition engine. <i>Energy Conversion and Management</i> , 2017, 137, 86-96.	4.4	43

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19	The effect of thermal cyclic variation on the thermophysical property degradation of paraffin as a phase changing energy storage material. <i>Applied Thermal Engineering</i> , 2019, 149, 22-33.	3.0	43
20	Engine speed and air-fuel ratio effect on the combustion of methane augmented hydrogen rich syngas in DI SI engine. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 477-486.	3.8	31
21	Tri-fuel emulsion with secondary atomization attributes for greener diesel engine – A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 111, 490-506.	8.2	24
22	Water-in-diesel emulsion and its micro-explosion phenomenon-review. , 2011, , .		22
23	Improved thermal energy storage behavior of polyethylene glycol-based NEOPCM containing aluminum oxide nanoparticles for solar thermal applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1881-1892.	2.0	22
24	A review of the performance and emissions of nano additives in diesel fuelled compression ignition-engines. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 469, 012035.	0.3	21
25	Effect of fuel injection timing of hydrogen rich syngas augmented with methane in direct-injection spark-ignition engine. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23846-23855.	3.8	20
26	Study of Syngas Combustion Parameters Effect on Internal Combustion Engine. <i>Asian Journal of Scientific Research</i> , 2013, 6, 187-196.	0.3	20
27	Combustion Characteristics of Late Injected CNG in a Spark Ignition Engine under Lean Operating Condition. <i>Journal of Applied Sciences</i> , 2012, 12, 2368-2375.	0.1	19
28	Combustion characteristics of tri-fuel (diesel-ethanol-biodiesel) emulsion fuels in CI engine with micro-explosion phenomenon attributes. <i>Fuel</i> , 2022, 312, 122933.	3.4	19
29	Effect of Compressed Natural Gas Mixing on the Engine Performance and Emissions. <i>International Journal of Automotive and Mechanical Engineering</i> , 2013, 8, 1416-1429.	0.5	18
30	Effect of Air-fuel Ratio on the Combustion Characteristics of Syngas (H ₂ :CO) in Direct-injection Spark-ignition Engine. <i>Energy Procedia</i> , 2014, 61, 2567-2571.	1.8	17
31	Improvements in hydrogen production from methane dry reforming on filament-shaped mesoporous alumina-supported cobalt nanocatalyst. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24781-24790.	3.8	16
32	Solar Energy Resource Assessment of the Geba Catchment, Northern Ethiopia. <i>Energy Procedia</i> , 2014, 57, 1266-1274.	1.8	15
33	Combined effect of boost pressure and injection timing on the performance and combustion of CNG in a DI spark ignition engine. <i>International Journal of Automotive Technology</i> , 2017, 18, 85-96.	0.7	15
34	The Influence of Formulation Ratio and Emulsifying Settings on Tri-Fuel (Diesel–Ethanol–Biodiesel) Emulsion Properties. <i>Energies</i> , 2019, 12, 1708.	1.6	15
35	The performance of turbocharged diesel engine with injected calophyllum inophyllum methyl ester blends and inducted babul wood gaseous fuels. <i>Fuel</i> , 2019, 257, 116060.	3.4	14
36	Wind Energy Data Analysis and Resource Mapping of Geba Catchment, North Ethiopia. <i>Wind Engineering</i> , 2013, 37, 333-345.	1.1	12

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37	Development of nanolubricant automotive air conditioning (AAC) test rig. MATEC Web of Conferences, 2017, 90, 01050.	0.1	12
38	The characteristics of water-in-biodiesel emulsions produced using ultrasonic homogenizer. AEJ - Alexandria Engineering Journal, 2020, 59, 227-237.	3.4	12
39	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
40	Effect of injection timing on combustion, performance and emissions of lean-burn syngas (H ₂ /CO) in spark-ignition direct-injection engine. International Journal of Engine Research, 2016, 17, 921-933.	1.4	11
41	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
42	Syngas production through steam and CO ₂ reforming of methane over Ni-based catalyst-A Review. IOP Conference Series: Materials Science and Engineering, 2020, 736, 042032.	0.3	10
43	Macroscopic and microscopic spray structure of water-in-diesel emulsions. Energy, 2021, 223, 120040.	4.5	10
44	Kinetic and CFD Modeling of Exhaust Gas Reforming of Natural Gas in a Catalytic Fixed-Bed Reactor for Spark Ignition Engines. Chemical Engineering and Technology, 2020, 43, 705-718.	0.9	9
45	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
46	Combustion and Performance of Syngas Dual Fueling in a CI Engine with Blended Biodiesel as Pilot Fuel. BioResources, 2017, 12, .	0.5	8
47	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
48	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
49	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
50	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
51	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
52	Mass Fraction Burn Investigation of Lean Burn Low BTU Gasification Gas in Direct-injection Spark-ignition Engine. , 0, , .		5
53	Low and Medium Calorific Value Gasification Gas Combustion in IC Engines. , 0, , .		4
54	Investigation of Water-in-Biodiesel Emulsion Characteristics Produced by Ultrasonic Homogenizer. MATEC Web of Conferences, 2018, 225, 01012.	0.1	4

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55	Performance and emission of turbocharger engine using gasoline and ethanol blends. IOP Conference Series: Materials Science and Engineering, 2020, 863, 012034.	0.3	4
56	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
57	Exhaust Emission Reduction of Diesel Engine Fueled with Emulsified Palm Oil Methyl Esters. Applied Mechanics and Materials, 0, 660, 457-461.	0.2	3
58	Preparing side charging of PCM storage: theoretical and experimental investigation. IOP Conference Series: Materials Science and Engineering, 2015, 100, 012021.	0.3	3
59	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
60	Transient modelling of heat loading of phase change material for energy storage. MATEC Web of Conferences, 2017, 90, 01078.	0.1	3
61	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
62	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
63	Indoor Air Quality Evaluation of Commercial Buildings In Kuantan. MATEC Web of Conferences, 2018, 225, 05018.	0.1	2
64	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
65	Comparison between tri-fuel (diesel-ethanol-biodiesel) emulsion with and without surfactant. AIP Conference Proceedings, 2019, , .	0.3	2
66	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
67	Recovery of gas waste from the petroleum industry: a review. Environmental Chemistry Letters, 2022, 20, 263-281.	8.3	2
68	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
69	Engine Emissions Analysis of Emulsified Fuel of Different Blend Ratios. IOP Conference Series: Materials Science and Engineering, 2021, 1062, 012016.	0.3	1
70	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
71	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
72	Comparative Analysis of Diesel, Diesel-Palm Biodiesel and Diesel-Biodiesel-Butanol Blends in Diesel Engine. , 2018, , .		0

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73	Diesel and various blending nanoparticles based diesel, fuel properties study. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012061.	0.3	0
74	Performance and Emission Characteristics of Microbubble-Enhanced Fuels in a Diesel Engine. Energy & Fuels, 2021, 35, 2630-2638.	2.5	0
75	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