Assessment of ultra-lean burn characteristics for a strat spark-ignition methanol engine under different high co

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Citation Report

#	Article	IF	CITATIONS
1	Assessment of a complete truck operating under dual-mode dual-fuel combustion in real life applications: Performance and emissions analysis. Applied Energy, 2020, 279, 115729.	10.1	16
2	Influence of water port injection on cycle-to-cycle variations in heavy-duty natural gas engine under low load. Fuel, 2020, 280, 118678.	6.4	25
3	Effects of hydrogen direct injection on combustion and emission characteristics of a hydrogen/Acetone-Butanol-Ethanol dual-fuel spark ignition engine under lean-burn conditions. International Journal of Hydrogen Energy, 2020, 45, 34193-34203.	7.1	43
4	Comparative study of different injection modes on combustion and particle emission of acetone-butanol-ethanol (ABE) and gasoline in a dual-injection SI engine. Fuel, 2020, 281, 118786.	6.4	18
5	Evaluation on combustion and lean-burn limit of a medium compression ratio hydrogen/methanol dual-injection spark-ignition engine under methanol late-injection. Applied Energy, 2020, 277, 115622.	10.1	119
6	Auto-ignition characteristics of methane/n-heptane mixtures under carbon dioxide and water dilution conditions. Applied Energy, 2020, 278, 115639.	10.1	11
7	Influence of alternative fuels on the particulate matter micro and nano-structures, volatility and oxidation reactivity in a compression ignition engine. Renewable and Sustainable Energy Reviews, 2020, 132, 110108.	16.4	8
8	Development and Application of Ion Current/Cylinder Pressure Cooperative Combustion Diagnosis and Control System. Energies, 2020, 13, 5656.	3.1	4
9	A 480ÂkW/liter direct injection jet ignition rotary valve super-turbocharged positive ignition methanol engine. Case Studies in Thermal Engineering, 2020, 21, 100676.	5.7	3
10	Experimental study of the effects of spark timing and water injection on combustion and emissions of a heavy-duty natural gas engine. Fuel, 2020, 276, 118025.	6.4	35
11	Parametric study on effects of methanol injection timing and methanol substitution percentage on combustion and emissions of methanol/diesel dual-fuel direct injection engine at full load. Fuel, 2020, 279, 118424.	6.4	45
12	Experimental assessment of lean-burn characteristics for a modified diesel engine operated in methanol direct injection spark ignition (DISI) mode at full throttle condition. Fuel, 2020, 279, 118455.	6.4	20
13	Numerical study of twin-spark plug arrangement effects on flame, combustion and emissions of a medium compression ratio direct-injection methanol engine. Fuel, 2020, 279, 118427.	6.4	91
14	Computational study of nozzle spray-line distribution effects on stratified mixture formation, combustion and emissions of a high compression ratio DISI methanol engine under lean-burn condition. Energy, 2020, 205, 118080.	8.8	83
15	Numerical study on flow and pressure drop characteristics of a novel type asymmetric wall-flow diesel particulate filter. Fuel, 2020, 267, 117148.	6.4	29
16	Comparative study on combustion and emission characteristics of methanol/hydrogen, ethanol/hydrogen and methane/hydrogen blends in high compression ratio SI engine. Fuel, 2020, 267, 117193.	6.4	75
17	Parametric study on effects of excess air/fuel ratio, spark timing, and methanol injection timing on combustion characteristics and performance of natural gas/methanol dual-fuel engine at low loads. Energy Conversion and Management, 2020, 210, 112742.	9.2	105
18	Combustion and emissions of isomeric butanol/gasoline surrogates blends on an optical GDI engine. Fuel, 2020, 272, 117690.	6.4	39

#	Article	IF	CITATIONS
19	Gasoline engine fueled with bioethanol-bio-acetone-gasoline blends: Performance and emissions exploration. Fuel, 2020, 274, 117825.	6.4	34
20	Numerical research on combustion and emissions behaviors of a medium compression ratio direct-injection twin-spark plug synchronous ignition methanol engine under steady-state lean-burn conditions. Energy, 2021, 215, 119193.	8.8	29
21	Parametric analysis of hydrogen two-stage direct-injection on combustion characteristics, knock propensity, and emissions formation in a rotary engine. Fuel, 2021, 287, 119418.	6.4	31
22	Numerical study of cold-start performances of a medium compression ratio direct-injection twin-spark plug synchronous ignition engine fueled with methanol. Fuel, 2021, 285, 119235.	6.4	24
23	Differences in pool-fire induced soot production between subcooled spray and flash boiling spray in a DISI engine. Fuel, 2021, 287, 119453.	6.4	13
24	Numerical study of the premixed ammonia-hydrogen combustion under engine-relevant conditions. International Journal of Hydrogen Energy, 2021, 46, 2667-2683.	7.1	90
25	Optimization on timings of injection and spark of a high compression-ratio stratified-charge methanol engine under ultra-lean burn. Fuel, 2021, 285, 119227.	6.4	16
26	Laser-Induced Hydrogen Generation from Methanol with Graphene Aerogel as the Target. ACS Omega, 2021, 6, 3711-3716.	3.5	10
27	A model to determine the effects of low proportion of hydrogen and the flame kernel radius on combustion and emission performance of direct injection spark ignition engine. Chemical Engineering Research and Design, 2021, 147, 1110-1124.	5.6	11
28	Nonlinear dynamics of cycle-to-cycle variations in a lean-burn natural gas engine with a non-uniform pre-mixture. Nonlinear Dynamics, 2021, 104, 2241-2258.	5.2	3
29	A comparative study of combustion and emission characteristics of dual-fuel engine fueled with diesel/methanol and diesel–polyoxymethylene dimethyl ether blend/methanol. Chemical Engineering Research and Design, 2021, 147, 714-722.	5.6	76
30	Methanol to power through high-efficiency hybrid fuel cell system: Thermodynamic, thermo-economic, and techno-economic (3T) analyses in Northwest China. Energy Conversion and Management, 2021, 232, 113899.	9.2	19
31	Comparative evaluation of intelligent regression algorithms for performance and emissions prediction of a hydrogen-enriched Wankel engine. Fuel, 2021, 290, 120005.	6.4	25
32	Investigation of the gas injection rate shape on combustion, knock and emissions behavior of a rotary engine with hydrogen direct-injection enrichment. International Journal of Hydrogen Energy, 2021, 46, 14790-14804.	7.1	28
33	A dual fuel ICE diesel-H2 featuring 1,600Âbar cryogenic liquid H2 injection. International Journal of Hydrogen Energy, 2021, 46, 19171-19179.	7.1	4
34	Effect of injection strategy on a diesel/methanol dual-fuel direct-injection engine. Applied Thermal Engineering, 2021, 189, 116691.	6.0	22
35	Evaluation of the effect of a new alternative fuel containing boron and hydrogen on gasoline engine performance and emission responses. International Journal of Environmental Science and Technology, 2022, 19, 4913-4922.	3.5	17
36	Investigations on a new C-GPFs with electric heating for enhancing the integrated regeneration performance under critical parameters. Energy, 2021, 225, 120265.	8.8	12

#	Article	IF	CITATIONS
37	Optical study on the effects of the hydrogen injection timing on lean combustion characteristics using a natural gas/hydrogen dual-fuel injected spark-ignition engine. International Journal of Hydrogen Energy, 2021, 46, 20777-20789.	7.1	34
38	Experimental study on cycle-to-cycle variations in natural gas/methanol bi-fueled engine under excess air/fuel ratio at 1.6. Energy, 2021, 224, 120233.	8.8	13
39	Combined effects of excess air ratio and EGR rate on combustion and emissions behaviors of a GDI engine with CO2 as simulated EGR (CO2) at low load. Fuel, 2021, 293, 120442.	6.4	73
40	Assessment of gaseous, particulate, and unregulated emissions from diesel compression ignition and LPG direct injection spark ignition minibus vehicles under the world harmonized vehicle cycle on a chassis dynamometer. Fuel, 2021, 294, 120392.	6.4	11
41	Combustion and emissions behaviors of a stoichiometric GDI engine with simulated EGR (CO2) at low load and different spark timings. Fuel, 2021, 295, 120614.	6.4	27
42	Simulations of methanol fueled locomotive engine using high pressure co-axial direct injection system. Fuel, 2021, 295, 120231.	6.4	13
43	Theoretical and Experimental Study of 3-Pentanol Autoignition: Ab Initio Calculation, Shock Tube Experiments, and Kinetic Modeling. Journal of Physical Chemistry A, 2021, 125, 5976-5989.	2.5	3
44	Effect of CO2 dilution on combustion and emissions of a GDI engine under the peak NOX generation mixture. Fuel, 2021, 295, 120613.	6.4	14
45	Effect of injection and ignition timing on a hydrogen-lean stratified charge combustion engine. International Journal of Engine Research, 2022, 23, 816-829.	2.3	18
46	Effects of Different Mixture Ratios of Methanol-Diesel on the Performance Enhancement and Emission Reduction for a Diesel Engine. Processes, 2021, 9, 1366.	2.8	10
47	Combustion and emission characteristics of an Acetone-Butanol-Ethanol (ABE) spark ignition engine with hydrogen direct injection. International Journal of Hydrogen Energy, 2021, 46, 30145-30157.	7.1	16
48	Low-carbon alcohol fuels for decarbonizing the road transportation industry: a bibliometric analysis 2000–2021. Environmental Science and Pollution Research, 2022, 29, 5577-5604.	5.3	19
49	Effects of Water Ratio in Hydrous Ethanol on the Combustion and Emissions of a Hydrous Ethanol/Gasoline Combined Injection Engine under Different Excess Air Ratios. ACS Omega, 2021, 6, 25749-25761.	3.5	10
50	Development of cyclic variation prediction model of the gasoline and n-butanol rotary engines with hydrogen enrichment. Fuel, 2021, 299, 120891.	6.4	24
51	The combustion, performance and emissions investigation of a dual-fuel diesel engine using silicon dioxide nanoparticle additives to methanol. Energy, 2021, 230, 120734.	8.8	46
52	Lean combustion of stratified hydrogen in a constant volume chamber. Fuel, 2021, 301, 121045.	6.4	17
53	Parametric study of a single-channel diesel/methanol dual-fuel injector on a diesel engine fueled with directly injected methanol and pilot diesel. Fuel, 2021, 302, 121156.	6.4	21
54	To achieve high methanol substitution ratio and clean combustion on a diesel/methanol dual fuel engine: A comparison of diesel methanol compound combustion (DMCC) and direct dual fuel stratification (DDFS) strategies. Fuel, 2021, 304, 121466.	6.4	20

#	Article	IF	CITATIONS
55	Comparative study on the combustion and emissions of dual-fuel common rail engines fueled with diesel/methanol, diesel/ethanol, and diesel/n-butanol. Fuel, 2021, 304, 121360.	6.4	120
56	Effects of injection timing and CO2 dilution on combustion and emissions behaviors of a stoichiometric GDI engine under medium load conditions. Fuel, 2021, 303, 121262.	6.4	12
57	Effect of injection strategy on the mixture formation and combustion process in a gasoline direct injection rotary engine. Fuel, 2021, 304, 121428.	6.4	27
58	Effect of hydrogen addition on combustion, performance and emission of stoichiometric compressed natural gas fueled internal combustion engine along with exhaust gas recirculation at low, half and high load conditions. Fuel, 2021, 304, 121358.	6.4	27
59	Study on combustion control of a methanol SICI engine. Fuel, 2021, 306, 121584.	6.4	1
60	Numerical comparative study on knocking combustion of high compression ratio spark ignition engine fueled with methanol, ethanol and methane based on detailed chemical kinetics. Fuel, 2021, 306, 121615.	6.4	21
61	A comparative study of combustion performance and emissions of dual-fuel engines fueled with natural gas/methanol and natural gas/gasoline. Energy, 2021, 237, 121586.	8.8	27
62	Critical review on combustion phenomena of low carbon alcohols in SI engine with its challenges and future directions. Renewable and Sustainable Energy Reviews, 2021, 152, 111702.	16.4	26
63	Experimental study on the effects of injection parameters and exhaust gas recirculation on combustion, emission and performance of Atkinson cycle gasoline direct-injection engine. Energy, 2022, 238, 121784.	8.8	9
64	Visualization study on lean combustion characteristics of the premixed methanol by the jet ignition of an ignition chamber. Fuel, 2022, 308, 122001.	6.4	19
65	Effect of hydrogen enrichment on the flame propagation, emissions formation and energy balance of the natural gas spark ignition engine. Fuel, 2022, 307, 121843.	6.4	92
66	Effect of operation under lean conditions on NOx emissions and fuel consumption fueling an SI engine with hydrous ethanol–gasoline blends enhanced with synthesis gas. Energy, 2022, 238, 121694.	8.8	19
67	Dual and Ternary Biofuel Blends for Desalination Process: Emissions and Heat Recovered Assessment. Energies, 2021, 14, 61.	3.1	8
68	Design and validation of additive manufactured catalytic converter for the control of regulated and unregulated emissions of a gasohol fuelled spark ignition engine. Fuel, 2022, 309, 122146.	6.4	3
69	Comparative analysis on combustion and emissions between CO2 and EGR dilution GDI engine at half-load, stoichiometric and lean-burn conditions. Fuel, 2022, 309, 122216.	6.4	13
70	Comparative study on different spark plug positions of a rotary engine with gasoline port and direct injection. Fuel, 2022, 310, 122376.	6.4	8
71	Study of combustion, performance and emissions characteristics of oxygenated constituents and methanol fumigation in the inlet manifold of a diesel engine. Sustainable Energy Technologies and Assessments, 2022, 49, 101748.	2.7	0
72	Experimental study of knock combustion and direct injection on knock suppression in a high compression ratio methanol engine. Fuel, 2022, 311, 122505.	6.4	18

ARTICLE IF CITATIONS # Gaseous and particulate emissions analysis using microalgae based dioctyl phthalate biofuel during 73 6.4 5 cold, warm and hot engine operation. Fuel, 2022, 312, 122965. Optical diagnostics and chemical kinetic analysis on the dual-fuel combustion of methanol and high 74 29 6.4 reactivity fuels. Fuel, 2022, 312, 122949. Numerical comparative analysis on performance and emission characteristics of methanol/hydrogen, ethanol/hydrogen and butanol/hydrogen blends fuels under lean burn conditions in SI engine. Fuel, 75 6.4 26 2022, 313, 123012. Experimental study of stratified lean burn characteristics on a dual injection gasoline engine. Frontiers in Energy, 2022, 16, 900-915. Performance enhancement of methanol reforming reactor through finned surfaces and diffused entry for on-board hydrogen generation. International Journal of Hydrogen Energy, 2022, 47, 77 7.1 8 7478-7490. Adaptability of Laser Textured Liner to the Effects of Methanol Diluting Oil on Tribological Properties. International Journal of Automotive Technology, 2022, 23, 461-470. 1.4 Effects of Engine Cooling Strategy on Knock Suppression in High-Compression Ratio Spark-Ignition 79 1.4 2 Engine. International Journal of Automotive Technology, 2022, 23, 367-378. Effects of blending dissociated methanol gas with the fuel in gasoline engine. Energy, 2022, 247, 8.8 21 123494. Effect of mixture formation mode on the combustion and emission characteristics in a hydrogen 81 6.0 28 direct-injection engine under different load conditions. Applied Thermal Engineering, 2022, 209, 118276. Numerical study on the regeneration characteristics of catalytic diesel particulate filter based on 6.4 real driving emissions in plateau environment. Fuel, 2022, 321, 124020. Methanol as a Fuel for Internal Combustion Engines. Energy, Environment, and Sustainability, 2022, , 83 1.0 1 281-324. Numerical Investigation of Equivalence Ratio Effects on a Converted Diesel Engine Using Natural Gas. 2.3 Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, . Numerical comparative study on performance and emissions characteristics fueled with methanol, 85 8.8 10 ethanol and methane in high compression spark ignition engine. Energy, 2022, 254, 124374. Experimental evaluation of performance of heavy-duty SI pure methanol engine with EGR. Fuel, 2022, 6.4 325, 124948. Soot formation mechanism of modern automobile engines and methods of reducing soot emissions: A 87 7.2 21 review. Fuel Processing Technology, 2022, 235, 107373. The Effect of Methanol-Dodecanol Addition on Performance and Smoke Emission in a CI Engine with 1.0 Diesel Fuel. International Journal of Automotive Science and Technology, 2022, 6, 207-213. Experimental Investigation and Analysis of Three Dilution Strategies in an SI Turbocharged Engine 89 Regarding Combustion, Fuel Consumption, and Emissions. Journal of Energy Engineering - ASCE, 2022, 1.9 1 148,. The Effect of Ignition Timing on the Emission and Combustion Characteristics for a Hydrogen-Fuelled 90 2.8 ORP Engine at Lean-Burn Conditions. Processes, 2022, 10, 1534.

#	Article	IF	CITATIONS
91	Ultra-lean combustion mode. , 2022, , 13-43.		0
92	Effect of ethanol-gasoline blend on spark ignition engine: A mini review. Materials Today: Proceedings, 2022, 69, 564-568.	1.8	1
93	Hydrogen engine operation strategies: Recent progress, industrialization challenges, and perspectives. International Journal of Hydrogen Energy, 2023, 48, 366-392.	7.1	43
94	Combustion and emissions characteristics of methanol/gasoline CISI engines under different injection modes. Fuel, 2023, 333, 126506.	6.4	11
95	A comparative study on operating range and combustion characteristics of methanol/diesel dual direct injection engine with different methanol injection timings. Fuel, 2023, 334, 126646.	6.4	9
96	Combustion characteristics of a lean-burned CBM engine with hydrogen direction injection. , 2022, 1, 9-13.		0
97	High Compression Ratio Active Pre-chamber Single-Cylinder Gasoline Engine with 50% Gross Indicated Thermal Efficiency. ACS Omega, 2023, 8, 4756-4766.	3.5	8
98	Combined impact of excess air ratio and injection strategy on performances of a spark-ignition port- plus direct-injection dual-injection gasoline engine at half load. Fuel, 2023, 340, 127605.	6.4	5
99	Biofuel Blends for Desalination Units: Comparison and Assessments. Processes, 2023, 11, 1139.	2.8	0
100	Computational Investigation of Combustion, Performance, and Emissions of a Diesel-Hydrogen Dual-Fuel Engine. Sustainability, 2023, 15, 3610.	3.2	2
101	Mixture formation characteristics and feasibility of methanol as an alternative fuel for gasoline in port fuel injection engines: Droplet evaporation and spray visualization. Energy Conversion and Management, 2023, 283, 116956.	9.2	7
102	Research on the usability of various oxygenated fuel additives in a spark-ignition engine considering thermodynamic and economic analyses. Biofuels, 2023, 14, 933-949.	2.4	2
103	Numerical study of the firing, radicals and intermediates in the combustion process of a H2-assisted combustion DISI methanol engine. Fuel, 2023, 348, 128603.	6.4	5
104	Computational investigation of methanol pre-chamber combustion in a heavy-duty engine. Applications in Energy and Combustion Science, 2023, 15, 100192.	1.5	1
105	Experimental investigation on exhaust emissions of a heavy-duty vehicle powered by a methanol-fuelled spark ignition engine under world Harmonized Transient Cycle and actual on-road driving conditions. Energy, 2023, 282, 128869.	8.8	15
106	A comprehensive study of the effects of spark discharge duration on low-carbon combustion of high-pressure direct-injection propane: Factors affecting combustion, in-cylinder performance, and emissions. International Journal of Hydrogen Energy, 2023, , .	7.1	Ο
107	Evaluation of engine performance and emissions in an optical DISI engine with various spark plug designs and gaps. Fuel, 2024, 357, 129900.	6.4	0
108	Experimental investigation of spark timing on extension of hydrogen knock limit and performance of a hydrogen-gasoline dual-fuel engine. International Journal of Hydrogen Energy, 2024, 49, 910-922.	7.1	0

#	Article	IF	CITATIONS
109	Effects of methanol direct injection and high compression ratio on improving the performances of a spark-ignition passenger car engine. Fuel, 2024, 357, 130052.	6.4	1
110	Scaling Performance Parameters of Reciprocating Engines for Sustainable Energy System Optimization Modelling. Energies, 2023, 16, 7497.	3.1	Ο
111	Computational study of added H2 impacts on mixture formation, OH radical and unregulated emissions of spark-ignition methanol engine under various boundary parameters. Fuel, 2024, 360, 130536.	6.4	0
112	Effects of fuel properties on under-expansion behaviors of flash-boiling jets. , 0, , .		0
113	Simulation of charged species flow and ion current detection for knock sensing in gasoline engines with active pre-chamber. , 0, , .		0
114	Development of combustion control map for flex fuel operation in methanol powered direct injection SI engine. Energy, 2024, 288, 129695.	8.8	0
115	An efficient methanol pre-reforming gas turbine combined cycle with mid-temperature energy upgradation: Thermodynamic and economic analysis. Energy, 2024, 288, 129844.	8.8	0
116	Evaluation of the combustion process of directly injected methane in a rapid compression machine with a laser-based ignition system and an electrical ignition system. Energy, 2024, 289, 129940.	8.8	0
117	Comprehensive comparison of single-stage and novel two-stage hydrogen direct injection strategies on the combustion and thermodynamic performance of X-type rotary engine using gasoline-hydrogen fuel. International Journal of Hydrogen Energy, 2024, 53, 441-456.	7.1	0
118	Computational study of excess air ratio impacts on performances of a spark-ignition H2/methanol dual-injection engine. Energy, 2024, 289, 130059.	8.8	0
119	Numerical evaluation of ignition timing influences on performance of a stratified-charge H2/methanol dual-injection automobile engine under lean-burn condition. Energy, 2024, 290, 130209.	8.8	0
120	Effect of ignition pattern on combustion characteristics in a hydrogen Wankel rotary engine: A numerical study. Applications in Energy and Combustion Science, 2024, 17, 100250.	1.5	0
121	Hydrocarbon adsorption mechanism of modern automobile engines and methods of reducing hydrocarbon emissions during cold start process: A review. Journal of Environmental Management, 2024, 353, 120188.	7.8	1
122	The influence of exhaust gas recirculation coupling with fuel injection pressure on the combustion and emission characteristics of engine fueled with methanol-gasoline blends. Fuel Processing Technology, 2024, 255, 108048.	7.2	0
123	Effect of liquid ammonia HPDI strategies on combustion characteristics and emission formation of ammonia-diesel dual-fuel heavy-duty engines. Fuel, 2024, 367, 131450.	6.4	0