Xiongbo Duan

List of Publications by Year
in descending order

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		236925	276875
48	1,807	25	41
papers	citations	h-index	g-index

49	49	49	830
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Effects of water vapor on auto-ignition characteristics and laminar flame speed of methane/air mixture under engine-relevant conditions. Fuel, 2022, 315, 123169.	6.4	13
3	Effects of control strategies for mixture activity and chemical reaction pathway coupled with exhaust gas recirculation on the performance of hydrogen-enriched natural-gas fueled spark ignition engine. Fuel, 2022, 322, 124153.	6.4	23
4	Effects of inhalation frequency on inhalation/exposure dose of hazardous nanoparticles and toxic gases during cigarette smoking. Ecotoxicology and Environmental Safety, 2022, 240, 113709.	6.0	0
5	Influences of the control parameters and spark plug configurations on the performance of a natural gas spark-ignition engine. Fuel, 2022, 324, 124728.	6.4	10
6	A review of controlling strategies of the ignition timing and combustion phase in homogeneous charge compression ignition (HCCI) engine. Fuel, 2021, 285, 119142.	6.4	171
7	Impact of acetoneâ€“butanolâ€“ethanol (ABE) and gasoline blends on the energy balance of a high-speed spark-ignition engine. Applied Thermal Engineering, 2021, 184, 116267.	6.0	16
8	Multi-objective energy management for Atkinson cycle engine and series hybrid electric vehicle based on evolutionary NSGA-II algorithm using digital twins. Energy Conversion and Management, 2021, 230, 113788.	9.2	78
9	Experimental study the impacts of the key operating and design parameters on the cycle-to-cycle variations of the natural gas SI engine. Fuel, 2021, 290, 119976.	6.4	58
10	Experimental and numerical research on the performance characteristics of OPLVCR engine based on the NSGA II algorithm using digital twins. Energy Conversion and Management, 2021, 236, 114052.	9.2	18
11	Quantitative detection, sources exploration and reduction of in-cabin benzene series hazards of electric buses through climate chamber experiments. Journal of Hazardous Materials, 2021, 412, 125107.	12.4	7
12	Effects of the continuous variable valve lift system and Miller cycle strategy on the performance behavior of the lean-burn natural gas spark ignition engine. Fuel, 2021, 297, 120762.	6.4	47
13	Effects of injection timing and EGR on combustion and emissions characteristics of the diesel engine fuelled with acetoneâ€“butanolâ€“ethanol/diesel blend fuels. Energy, 2021, 231, 121069.	8.8	83
14	Effect of the novel continuous variable compression ratio (CVCR) configuration coupled with spark assisted induced ignition (SAII) combustion mode on the performance behavior of the spark ignition engine. Applied Thermal Engineering, 2021, 197, 117410.	6.0	5
15	The correlation between intake fluctuation and combustion CCV (cycle-to-cycle variations) on a high speed gasoline engine: A wide range operating condition study. Fuel, 2021, 304, 121336.	6.4	14
16	Visual experimental investigations of string cavitation and residual bubbles in the diesel nozzle and effects on initial spray structures. International Journal of Engine Research, 2020, 21, 437-447.	2.3	20
17	Experimental investigation of the effects of CR, hydrogen addition strategies on performance, energy and exergy characteristics of a heavy-duty NGSI engine fueled with 99% methane content. Fuel, 2020, 259, 116212.	6.4	33
18	Quantitative investigation the influences of the injection timing under single and double injection strategies on performance, combustion and emissions characteristics of a GDI SI engine fueled with gasoline/ethanol blend. Fuel, 2020, 260, 116363.	6.4	37

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19	Kinematics analysis and design method of a new mechanical CVVL system with self-regulation of the valve timing. Mechanism and Machine Theory, 2020, 143, 103624.	4.5	7
20	Effect of a novel mechanical CVVL system on economic performance of a turbocharged spark-ignition engine fuelled with gasoline and ethanol blend. Fuel, 2020, 263, 116697.	6.4	6
21	An experimental study the impact of the hydrogen enrichment on cycle-to-cycle variations of the large bore and lean burn natural gas spark-ignition engine. Fuel, 2020, 282, 118868.	6.4	46
22	Spray combustion and soot formation characteristics of the acetone-butanol-ethanol/diesel blends under diesel engine-relevant conditions. Fuel, 2020, 280, 118483.	6.4	46
23	Dilution gas and hydrogen enrichment on the laminar flame speed and flame structure of the methane/air mixture. Fuel, 2020, 281, 118794.	6.4	36
24	Experimental study the effects of acetoneâ€“butanolâ€“ethanol (ABE), spark timing and lambda on the performance and emissions characteristics of a high-speed SI engine. Fuel, 2020, 279, 118499.	6.4	15
25	Microsimulation of electric vehicle energy consumption and driving range. Applied Energy, 2020, 267, 115081.	10.1	82
26	A comparative experimental study on emission characteristics of a turbocharged gasoline direct-injection (TGDI) engine fuelled with gasoline/ethanol blends under transient cold-start and steady-state conditions. Fuel, 2020, 277, 118153.	6.4	28
27	Dispersion behaviors of exhaust gases and nanoparticle of a passenger vehicle under simulated traffic light driving pattern. Science of the Total Environment, 2020, 740, 140090.	8.0	12
28	Numerical investigation the effects of the twin-spark plugs coupled with EGR on the combustion process and emissions characteristics in a lean burn natural gas SI engine. Energy, 2020, 206, 118181.	8.8	29
29	Combustion and energy balance analysis of an unthrottled gasoline engine equipped with innovative variable valvetrain. Applied Energy, 2020, 268, 115051.	10.1	21
30	Experimental and numerical study the effect of EGR strategies on in-cylinder flow, combustion and emissions characteristics in a heavy-duty higher CR lean-burn NGSI engine coupled with detail combustion mechanism. Fuel, 2020, 276, 118082.	6.4	22
31	Numerical investigation of water injection quantity and water injection timing on the thermodynamics, combustion and emissions in a hydrogen enriched lean-burn natural gas SI engine. International Journal of Hydrogen Energy, 2020, 45, 17935-17952.	7.1	41
32	Optical experiments of string cavitation in diesel injector tapered nozzles. Thermal Science, 2020, 24, 193-201.	1.1	3
33	Experimental investigation energy balance and distribution of a turbocharged GDI engine fuelled with ethanol and gasoline blend under transient and steady-state operating conditions. Thermal Science, 2020, 24, 243-257.	1.1	8
34	Experimental investigation the impacts of injection strategies coupled with gasoline/ethanol blend on combustion, performance and emissions characteristics of a GDI spark-ignition engine. Fuel, 2019, 256, 115910.	6.4	38
35	Optical experiment and Large Eddy Simulation on effects of in-nozzle stagnant air bubbles and diesel on near-nozzle spray structure variation in diesel injector. Fuel, 2019, 255, 115721.	6.4	18
36	Effects of natural gas composition and compression ratio on the thermodynamic and combustion characteristics of a heavy-duty lean-burn SI engine fueled with liquefied natural gas. Fuel, 2019, 254, 115733.	6.4	45

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37	Development of a method for on-board measurement of instant engine torque and fuel consumption rate based on direct signal measurement and RGF modelling under vehicle transient operating conditions. Energy, 2019, 189, 116218.	8.8	23
38	Experimental and numerical study the effect of combustion chamber shapes on combustion and emissions characteristics in a heavy-duty lean burn SI natural gas engine coupled with detail combustion mechanism. Fuel, 2019, 258, 116130.	6.4	39
39	Experimental and numerical investigation of the effects of low-pressure, high-pressure and internal EGR configurations on the performance, combustion and emission characteristics in a hydrogen-enriched heavy-duty lean-burn natural gas SI engine. Energy Conversion and Management, 2019, 195, 1319-1333.	9.2	115
40	Experimental study the effects of various compression ratios and spark timing on performance and emission of a lean-burn heavy-duty spark ignition engine fueled with methane gas and hydrogen blends. Energy, 2019, 169, 558-571.	8.8	83
41	Performance, combustion and knock assessment of a high compression ratio and lean-burn heavy-duty spark-ignition engine fuelled with n-butane and liquefied methane gas blend. Energy, 2018, 158, 256-268.	8.8	42
42	VISUALIZATION INVESTIGATIONS OF FLOW REGIMES IN DIFFERENT SIZES OF DIESEL INJECTOR NOZZLES AND THEIR EFFECTS ON SPRAY. Atomization and Sprays, 2018, 28, 547-563.	0.8	10
43	Experimental investigation of the effects of injection strategies on cycle-to-cycle variations of a DISI engine fueled with ethanol and gasoline blend. Energy, 2018, 165, 455-470.	8.8	49
44	Comparative study on thermodynamics, combustion and emissions of turbocharged gasoline direct injection (GDI) engine under NEDC and steady-state conditions. Energy Conversion and Management, 2018, 169, 111-123.	9.2	27
45	Influence of single injection and two-stagnation injection strategy on thermodynamic process and performance of a turbocharged direct-injection spark-ignition engine fuelled with ethanol and gasoline blend. Applied Energy, 2018, 228, 942-953.	10.1	53
46	Experimental study on the performance, combustion and emission characteristics of a high compression ratio heavy-duty spark-ignition engine fuelled with liquefied methane gas and hydrogen blend. Applied Thermal Engineering, 2017, 124, 585-594.	6.0	60
47	Experimental study on the energy flow of a gasoline-powered vehicle under the NEDC of cold starting. Applied Thermal Engineering, 2017, 115, 1173-1186.	6.0	63
48	Study of Energy-Saving Potential of Electronically Controlled Turbocharger for Internal Combustion Engine Exhaust Gas Energy Recovery. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	13