

Hua Zhao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6164875/publications.pdf>

Version: 2024-02-01

180
papers

4,206
citations

236925

25
h-index

265206

42
g-index

183
all docs

183
docs citations

183
times ranked

1864
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical diagnostics for soot and temperature measurement in diesel engines. Progress in Energy and Combustion Science, 1998, 24, 221-255.	31.2	384
2	Performance and Analysis of a 4-Stroke Multi-Cylinder Gasoline Engine with CAI Combustion. , 0, , .		140
3	Innovative Ultra-low NOx Controlled Auto-Ignition Combustion Process for Gasoline Engines: the 4-SPACE Project. , 0, , .		128
4	Experimental Studies on Controlled Auto-ignition (CAI) Combustion of Gasoline in a 4-Stroke Engine. , 2001, , .		110
5	Research and Development of Controlled Auto-Ignition (CAI) Combustion in a 4-Stroke Multi-Cylinder Gasoline Engine. , 0, , .		100
6	Understanding the Effects of Recycled Burnt Gases on the Controlled Autoignition (CAI) Combustion in Four-Stroke Gasoline Engines. , 0, , .		99
7	Combustion and emission characteristics of a HCCI engine fuelled with n-butanol“gasoline blends. Fuel, 2013, 108, 668-674.	6.4	97
8	HCCI and CAI engines for the automotive industry. , 2007, , .		85
9	High efficiency ethanol-diesel dual-fuel combustion: A comparison against conventional diesel combustion from low to full engine load. Fuel, 2018, 230, 440-451.	6.4	82
10	Experimental analysis of ethanol dual-fuel combustion in a heavy-duty diesel engine: An optimisation at low load. Applied Energy, 2016, 165, 166-182.	10.1	78
11	Potential of internal EGR and throttled operation for low load extension of ethanol“diesel dual-fuel reactivity controlled compression ignition combustion on a heavy-duty engine. Fuel, 2016, 179, 391-405.	6.4	73
12	Combustion and emission characteristics of a n-butanol HCCI engine. Fuel, 2014, 115, 758-764.	6.4	72
13	Comparison of combustion characteristics of n-butanol/ethanol“gasoline blends in a HCCI engine. Energy Conversion and Management, 2015, 95, 101-109.	9.2	71
14	Performance and economic analysis of a direct injection spark ignition engine fueled with wet ethanol. Applied Energy, 2016, 169, 230-239.	10.1	64
15	Dilution Effects on the Controlled Auto-Ignition (CAI) Combustion of Hydrocarbon and Alcohol Fuels. , 0, , .		58
16	Effects of Oxygen Content of Fuels on Combustion and Emissions of Diesel Engines. Energies, 2016, 9, 28.	3.1	56
17	Exploring the mid-load potential of ethanol-diesel dual-fuel combustion with and without EGR. Applied Energy, 2017, 193, 263-275.	10.1	55
18	Effects of valve timing, valve lift and exhaust backpressure on performance and gas exchanging of a two-stroke GDI engine with overhead valves. Energy Conversion and Management, 2016, 123, 71-83.	9.2	50

#	ARTICLE	IF	CITATIONS
19	Effect of air dilution and effective compression ratio on the combustion characteristics of a HCCI (homogeneous charge compression ignition) engine fuelled with n-butanol. <i>Energy</i> , 2015, 85, 296-303.	8.8	49
20	Improvement in high load ethanol-diesel dual-fuel combustion by Miller cycle and charge air cooling. <i>Applied Energy</i> , 2018, 210, 138-151.	10.1	48
21	Quantitative investigation of soot distribution by laser-induced incandescence. <i>Applied Optics</i> , 2000, 39, 5012.	2.1	47
22	Comparison of HCCI Combustion Respectively Fueled with Gasoline, Ethanol and Methanol through the Trapped Residual Gas Strategy. , 0, , .		47
23	Study on spark assisted compression ignition (SACI) combustion with positive valve overlap at medium-high load. <i>Applied Energy</i> , 2013, 101, 622-633.	10.1	47
24	Effects of Air/Fuel Ratios and EGR Rates on HCCI Combustion of n-heptane, a Diesel Type Fuel. , 0, , .		46
25	Investigation of combustion, performance and emission characteristics of 2-stroke and 4-stroke spark ignition and CAI/HCCI operations in a DI gasoline. <i>Applied Energy</i> , 2014, 130, 244-255.	10.1	46
26	Lubricant Induced Pre-Ignition in an Optical SI Engine. , 2014, , .		44
27	Development of a Two-Stroke/Four-Stroke Switching Gasoline Engine - The 2/4SIGHT Concept. , 0, , .		43
28	CHARACTERISTICS OF HOMOGENEOUS CHARGE COMPRESSION IGNITION (HCCI) COMBUSTION AND EMISSIONS OF n-HEPTANE. <i>Combustion Science and Technology</i> , 2005, 177, 2113-2150.	2.3	41
29	Evaluating the EGR-AFR Operating Range of a HCCI Engine. , 2005, , .		40
30	Effect of piston shapes and fuel injection strategies on stoichiometric stratified flame ignition (SFI) hybrid combustion in a PFI/DI gasoline engine by numerical simulations. <i>Energy Conversion and Management</i> , 2015, 98, 387-400.	9.2	39
31	Improved acid tolerance of <i>Lactobacillus pentosus</i> by error-prone whole genome amplification. <i>Bioresource Technology</i> , 2013, 135, 459-463.	9.6	38
32	Combustion characteristics of a gasoline engine with independent intake port injection and direct injection systems for n-butanol and gasoline. <i>Energy Conversion and Management</i> , 2016, 124, 556-565.	9.2	37
33	A study of mechanical variable valve operation with gasoline-alcohol fuels in a spark ignition engine. <i>Fuel</i> , 2013, 106, 802-813.	6.4	36
34	Effects of Injection Timing and Valve Timings on CAI Operation in a Multi-Cylinder DI Gasoline Engine. , 2005, , .		35
35	Investigation of SI-HCCI Hybrid Combustion and Control Strategies for Combustion Mode Switching in a Four-Stroke Gasoline Engine. <i>Combustion Science and Technology</i> , 2009, 181, 782-799.	2.3	33
36	Characterization of an in-cylinder flow structure in a high-tumble spark ignition engine. <i>International Journal of Engine Research</i> , 2004, 5, 375-400.	2.3	30

#	ARTICLE	IF	CITATIONS
37	CAI combustion of gasoline and its mixture with ethanol in a 2-stroke poppet valve DI gasoline engine. Fuel, 2013, 109, 661-668.	6.4	29
38	Investigation on gasoline homogeneous charge compression ignition (HCCI) combustion implemented by residual gas trapping combined with intake preheating through waste heat recovery. Energy Conversion and Management, 2014, 86, 8-19.	9.2	29
39	Application of a hybrid breakup model for the spray simulation of a multi-hole injector used for a DISI gasoline engine. Applied Thermal Engineering, 2014, 65, 282-292.	6.0	28
40	High load performance and combustion analysis of a four-valve direct injection gasoline engine running in the two-stroke cycle. Applied Energy, 2015, 159, 117-131.	10.1	28
41	Continuous Load Adjustment Strategy of a Gasoline HCCI-SI Engine Fully Controlled by Exhaust Gas. , 0, , .		25
42	Study of SI-HCCI-SI Transition on a Port Fuel Injection Engine Equipped with 4VVAS. , 2007, , .		23
43	A comparison of butanol and ethanol flame development in an optical spark ignition engine. Fuel, 2016, 170, 27-38.	6.4	23
44	Miller cycle combined with exhaust gas recirculation and postâ€“fuel injection for emissions and exhaust gas temperature control of a heavy-duty diesel engine. International Journal of Engine Research, 2020, 21, 1381-1397.	2.3	23
45	The Combustion and Emission Characteristics of Ethanol on a Port Fuel Injection HCCI Engine. , 2006, , .		22
46	Characterization and Potential of Premixed Dual-Fuel Combustion in a Heavy Duty Natural Gas/Diesel Engine. , 0, , .		22
47	Experimental investigation of direct injection charge cooling in optical GDI engine using tracer-based PLIF technique. Experimental Thermal and Fluid Science, 2014, 59, 96-108.	2.7	21
48	Methods to achieve HCCI/CAI combustion at idle operation in a 4VVAS gasoline engine. Applied Energy, 2014, 116, 41-51.	10.1	21
49	Investigation of performance and combustion characteristics of a four-valve supercharged two-stroke DI engine fuelled with gasoline and ethanol. Fuel, 2018, 227, 401-411.	6.4	21
50	Numerical Study of the Effect of Piston Shapes and Fuel Injection Strategies on In-Cylinder Conditions in a PFI/GDI Gasoline Engine. SAE International Journal of Engines, 0, 7, 1888-1899.	0.4	20
51	The effects of residual gas trapping on part load performance and emissions of a spark ignition direct injection engine fuelled with wet ethanol. Applied Energy, 2019, 253, 113508.	10.1	20
52	Effects of Injection Timing on CAI Operation in a 2/4-Stroke Switchable GDI Engine. SAE International Journal of Engines, 2011, 5, 67-75.	0.4	19
53	Measurement of short-circuiting and its effect on the controlled autoignition or homogeneous charge compression ignition combustion in a two-stroke poppet valve engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 1110-1118.	1.9	19
54	Motivation, definition and history of HCCI/CAI engines. , 2007, , 1-18.		19

#	ARTICLE	IF	CITATIONS
55	The Effect of Spark Ignition on the CAI Combustion Operation. , 0, , .		18
56	Understanding the influence of valve timings on controlled autoignition combustion in a four-stroke port fuel injection engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2005, 219, 807-823.	1.9	18
57	EFFECT OF RECYCLED BURNED GASES ON HOMOGENEOUS CHARGE COMPRESSION IGNITION COMBUSTION. Combustion Science and Technology, 2005, 177, 1863-1882.	2.3	18
58	Control Strategies for Steady and Transient Operation of a 4-Stroke Gasoline Engine with CAI Combustion Using a 4-Variable Valve Actuating System (4VVAS). , 0, , .		18
59	Effects of spark-assistance on controlled auto-ignition combustion at different injection timings in a multicylinder direct-injection gasoline engine. International Journal of Engine Research, 2009, 10, 133-148.	2.3	18
60	Investigation of Early and Late Intake Valve Closure Strategies for Load Control in a Spark Ignition Ethanol Engine. SAE International Journal of Engines, 0, 10, 858-872.	0.4	18
61	Combustion Characteristics of CAI Combustion with Alcohol Fuels. , 2010, , .		17
62	Combustion and emission analysis of the direct DME injection enabled and controlled auto-ignition gasoline combustion engine operation. Fuel, 2013, 107, 800-814.	6.4	17
63	Analysis of cyclic variations during mode switching between spark ignition and controlled auto-ignition combustion operations. International Journal of Engine Research, 2015, 16, 356-365.	2.3	17
64	Impact of Port Fuel Injection and In-Cylinder Fuel Injection Strategies on Gasoline Engine Emissions and Fuel Economy. , 0, , .		17
65	Effect of direct injection dimethyl ether on the micro-flame ignited (MFI) hybrid combustion and emission characteristics of a 4-stroke gasoline engine. Fuel Processing Technology, 2017, 167, 555-562.	7.2	17
66	Effect of Injection Timing on Mixture and CAI Combustion in a GDI Engine with an Air-Assisted Injector. , 0, , .		16
67	Experiment and Analysis of a Direct Injection Gasoline Engine Operating with 2-stroke and 4-stroke Cycles of Spark Ignition and Controlled Auto-Ignition Combustion. , 2011, , .		16
68	Effect of the thermal stratification on Slâ€“CAI hybrid combustion in a gasoline engine. Applied Thermal Engineering, 2013, 61, 451-460.	6.0	16
69	Reduction of Methane Slip Using Premixed Micro Pilot Combustion in a Heavy-Duty Natural Gas-Diesel Engine. , 0, , .		16
70	Computational study of the influence of in-cylinder flow on spark ignitionâ€“controlled auto-ignition hybrid combustion in a gasoline engine. International Journal of Engine Research, 2015, 16, 795-809.	2.3	16
71	Effect of dilution strategies and direct injection ratios on stratified flame ignition (SFI) hybrid combustion in a PFI/DI gasoline engine. Applied Energy, 2016, 165, 801-814.	10.1	16
72	A Combustion Heat Release Correlation for CAI Combustion Simulation in 4-Stroke Gasoline Engines. , 2005, , .		15

#	ARTICLE	IF	CITATIONS
73	Analysis of Controlled Auto-Ignition/HCCI Combustion in a Direct Injection Gasoline Engine with Single and Split Fuel Injections. <i>Combustion Science and Technology</i> , 2007, 180, 176-205.	2.3	15
74	Increase of ethanol tolerance of <i>Saccharomyces cerevisiae</i> by error-prone whole genome amplification. <i>Biotechnology Letters</i> , 2011, 33, 1007-1011.	2.2	15
75	CHEMICAL EFFECTS OF THE INCOMPLETE-OXIDATION PRODUCTS IN RESIDUAL GAS ON THE GASOLINE HCCI AUTO-IGNITION. <i>Combustion Science and Technology</i> , 2014, 186, 273-296.	2.3	15
76	A High-Efficiency Two-Stroke Engine Concept: The Boosted Uniflow Scavenged Direct-Injection Gasoline (BUSDIG) Engine with Air Hybrid Operation. <i>Engineering</i> , 2019, 5, 535-547.	6.7	15
77	Effects of Intake Valve Timing on Premixed Gasoline Engine with CAI Combustion. , 0, , .		14
78	Development of a fuel stratification spark ignition engine. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2005, 219, 923-934.	1.9	14
79	Investigation into the Effect of Injection Timing on Stoichiometric and Lean CAI Operations in a 4-Stroke GDI Engine. , 0, , .		14
80	Two-phase fuel distribution measurements in a gasoline direct injection engine with an air-assisted injector using advanced optical diagnostics. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2007, 221, 663-673.	1.9	14
81	Combustion and emission characteristics of alcohol fuels in a CAI engine. <i>Fuel</i> , 2013, 104, 386-397.	6.4	14
82	The effects of intake backflow on in-cylinder situation and auto ignition in a gasoline controlled auto ignition engine. <i>Applied Energy</i> , 2013, 101, 756-764.	10.1	14
83	Low-Temperature Combustion Characteristics of a <i>n</i> -Butanol/Isooctane HCCI Engine. <i>Energy & Fuels</i> , 2014, 28, 4183-4192.	5.1	14
84	Evaluations of Scavenge Port Designs for a Boosted Uniflow Scavenged Direct Injection Gasoline (BUSDIG) Engine by 3D CFD Simulations. , 0, , .		14
85	Numerical study of the mixture formation and stratified-flame-induced auto-ignition (SFI) combustion processes in a poppet-valve two-stroke direct injection gasoline engine. <i>Applied Thermal Engineering</i> , 2019, 152, 654-665.	6.0	14
86	Investigations into the Influence of Dimethyl Ether Micro Flame Ignition on the Combustion and Cyclic Variation Characteristics of Flame Propagation/Auto-Ignition Hybrid Combustion in an Optical Engine. <i>Combustion Science and Technology</i> , 2017, 189, 453-477.	2.3	13
87	Effect of direct injection dimethyl ether on the micro-flame ignited (MFI) hybrid combustion characteristics of an optical gasoline engine at ultra-lean conditions. <i>Fuel Processing Technology</i> , 2020, 203, 106383.	7.2	13
88	Investigation of transition between spark ignition and controlled auto-ignition combustion in a V6 direct-injection engine with cam profile switching. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2008, 222, 1911-1926.	1.9	12
89	Analysis of a novel mild air hybrid engine technology, RegenEBD, for buses and commercial vehicles. <i>International Journal of Engine Research</i> , 2012, 13, 274-286.	2.3	12
90	Inert-droplet and combustion effects on turbulence in a diluted diffusion flame. <i>Combustion and Flame</i> , 2013, 160, 366-383.	5.2	12

#	ARTICLE	IF	CITATIONS
91	Effects of ethanol on combustion and emissions of a gasoline engine operating with different combustion modes. International Journal of Engine Research, 2016, 17, 998-1011.	2.3	12
92	Combustion and emissions of gasoline, anhydrous ethanol, and wet ethanol in an optical engine with a turbulent jet ignition system. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 3528-3537.	1.9	12
93	Variable valve actuation-based combustion control strategies for efficiency improvement and emissions control in a heavy-duty diesel engine. International Journal of Engine Research, 2020, 21, 578-591.	2.3	12
94	Investigation into Controlled Auto-Ignition Combustion in a GDI Engine with Single and Split Fuel Injections. , 2007, , .		11
95	CAI Combustion with Methanol and Ethanol in an Air-Assisted Direct Injection SI Engine. , 2008, , .		11
96	Assessment of large-eddy simulation feasibility in modelling the unsteady diesel fuel injection and mixing in a highspeed direct-injection engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2009, 223, 1033-1048.	1.9	11
97	Numerical simulation and validation of SI-CAI hybrid combustion in a CAI/HCCI gasoline engine. Combustion Theory and Modelling, 2013, 17, 142-166.	1.9	11
98	A Study of Turbulent Flame Development with Ethanol Fuels in an Optical Spark Ignition Engine. , 0, , .		11
99	Synergy between Boost and Valve Timings in a Highly Boosted Direct Injection Gasoline Engine Operating with Miller Cycle. , 0, , .		11
100	Characterization of Low Load Ethanol Dual-Fuel Combustion using Single and Split Diesel Injections on a Heavy-Duty Engine. , 0, , .		11
101	Influences of intake ports and pent-roof structures on the flow characteristics of a poppet-valved two-stroke gasoline engine. International Journal of Engine Research, 2016, 17, 1077-1091.	2.3	11
102	Analysis of scavenge port designs and exhaust valve profiles on the in-cylinder flow and scavenging performance in a two-stroke boosted uniflow scavenged direct injection gasoline engine. International Journal of Engine Research, 2018, 19, 509-527.	2.3	11
103	The effects of natural gas composition on conventional dual-fuel and reactivity-controlled compression ignition combustion in a heavy-duty diesel engine. International Journal of Engine Research, 2022, 23, 397-415.	2.3	11
104	Investigation of the HCCI/CAI Combustion Process by 2-D PLIF Imaging of Formaldehyde. , 2004, , .		10
105	Control of CAI Combustion Through Injection Timing in a GDI Engine With an Air- Assisted Injector. , 2005, , .		10
106	2-Stroke CAI Combustion Operation in a GDI Engine with Poppet Valves. , 2012, , .		10
107	Investigations into the influence of internal and external exhaust gas recirculation on the combustion stability in an optical gasoline spark ignition engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2015, 229, 1514-1528.	1.9	10
108	In-Cylinder Studies of CAI/HCCI Combustion with Negative Valve Overlap in a Direct Injection Gasoline Optical Engine. Combustion Science and Technology, 2011, 183, 467-486.	2.3	9

#	ARTICLE	IF	CITATIONS
109	Analysis of mixture formation process in a two-stroke boosted uniflow scavenged direct injection gasoline engine. International Journal of Engine Research, 2018, 19, 927-940.	2.3	9
110	An Experimental Study on HCCI Combustion in a Four-Stroke Gasoline Engine with Reduced Valve Lift Operations. , 0, , .		8
111	Analysis of a Cost Effective Air Hybrid Concept. , 2009, , .		8
112	Investigation of CAI Combustion with Positive Valve Overlap and Enlargement of CAI Operating Range. , 2009, , .		8
113	Simultaneous imaging of diesel spray atomisation and evaporation processes in a single-cylinder CR diesel engine. Experimental Thermal and Fluid Science, 2013, 50, 10-20.	2.7	8
114	Effect of Valve Timing and Residual Gas Dilution on Flame Development Characteristics in a Spark Ignition Engine. SAE International Journal of Engines, 0, 7, 488-499.	0.4	8
115	The Modeling and Design of a Boosted Uniflow Scavenged Direct Injection Gasoline (BUSDIG) Engine. , 0, , .		8
116	Effect of piston shape design on the scavenging performance and mixture preparation in a two-stroke boosted uniflow scavenged direct injection gasoline engine. International Journal of Engine Research, 2021, 22, 1484-1499.	2.3	8
117	Parametric Study on CAI Combustion in a GDI Engine with an Air-Assisted Injector. , 2007, , .		7
118	A Low Cost Air Hybrid Concept. Oil and Gas Science and Technology, 2010, 65, 19-26.	1.4	7
119	Theoretical and experimental studies of air-hybrid engine operation with fully variable valve actuation. International Journal of Engine Research, 2011, 12, 527-548.	2.3	7
120	Expanding the Low Load Limit of HCCI Combustion Process Using EIVO Strategy in a 4VVAS Gasoline Engine. , 0, , .		7
121	A simple and efficient mild air hybrid engine concept and its performance analysis. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2013, 227, 120-136.	1.9	7
122	Study on micro-flame ignited (MFI) hybrid combustion characteristics of a dual-fuel optical engine at different lambdas. Fuel, 2021, 290, 119796.	6.4	7
123	Effects of Ignition Timing on CAI Combustion in a Multi-Cylinder DI Gasoline Engine. , 0, , .		6
124	Computational fluid dynamics study of the effects of the re-entrant lip shape and toroidal radii of piston bowl on a high-speed direct-injection diesel engine's performance and emissions. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2005, 219, 1011-1023.	1.9	6
125	The Performance Characteristics of an Production Oriented Air Hybrid Powertrain. SAE International Journal of Engines, 2010, 3, 609-619.	0.4	6
126	CFD Study on Effects of Thermal and Residual Gas Inhomogeneous Distribution on Auto-ignition of Gasoline HCCI Combustion. , 0, , .		6

#	ARTICLE	IF	CITATIONS
127	Naturally aspirated and boosted controlled auto-ignition combustion with positive valve overlap in a four-stroke gasoline engine. International Journal of Engine Research, 2013, 14, 496-511.	2.3	6
128	Optimisation of boosting strategy for controlled auto-ignition combustion in a four-valve camless gasoline direct injection engine running in two-stroke cycle. International Journal of Engine Research, 2014, 15, 850-861.	2.3	6
129	Turbulent flame boundary and structure detection in an optical DISI engine using tracer-based two-line PLIF technique. Experimental Thermal and Fluid Science, 2015, 68, 545-558.	2.7	6
130	Engine Downsizing through Two-Stroke Operation in a Four-Valve GDI Engine. , 2016, , .		6
131	Analysis of the Effect of Intake Plenum Design on the Scavenging Process in a 2-Stroke Boosted Uniflow Scavenged Direct Injection Gasoline (BUSDIG) Engine. , 0, , .		6
132	Numerical Simulation of the Gasoline Spray with an Outward-Opening Piezoelectric Injector: A Comparative Study of Different Breakup Models. , 0, , .		6
133	Exploring the NOx Reduction Potential of Miller Cycle and EGR on a HD Diesel Engine Operating at Full Load. , 0, , .		6
134	Potentials of External Exhaust Gas Recirculation and Water Injection for the Improvement in Fuel Economy of a Poppet Valve 2-Stroke Gasoline Engine Equipped with a Two-Stage Serial Charging System. , 0, , .		6
135	Effect of the dwell angle of split injection in a single-cylinder optical diesel engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2010, 224, 815-828.	1.9	5
136	Dynamic Large-Eddy Simulation of Droplet Effects on a Reacting Plume in Countercurrent Configuration. Combustion Science and Technology, 2011, 183, 487-518.	2.3	5
137	Direct In-cylinder CO2 Measurements of Residual Gas in a GDI Engine for Model Validation and HCCI Combustion Development. , 0, , .		5
138	The Upper-Load Extension of a Boosted Direct Injection Poppet Valve Two-Stroke Gasoline Engine. , 0, , .		5
139	Start-of-injection-based software optimization for consistency between the cylinders in common-rail diesel engines. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2016, 230, 709-720.	1.9	5
140	Experimental investigation of the air-fuel charging process in a four-valve supercharged two-stroke cycle GDI engine. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	5
141	Multi-point micro-flame ignited hybrid lean-burn combustion of gasoline with direct injection dimethyl ether. International Journal of Engine Research, 2021, 22, 140-151.	2.3	5
142	Investigation of advanced valve timing strategies for efficient spark ignition ethanol operation. , 0, , .		5
143	Mixture formation and controlled auto-ignition combustion in four-stroke gasoline engines with port and direct fuel injections. International Journal of Engine Research, 2005, 6, 311-329.	2.3	4
144	Managing controlled auto-ignition combustion by injection on a direct-injection gasoline engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2007, 221, 1125-1137.	1.9	4

#	ARTICLE	IF	CITATIONS
145	Direct injection gasoline engines with autoignition combustion. , 2010, , 133-165.		4
146	Analysis of an air hybrid engine concept with an energy recovery valve. International Journal of Vehicle Design, 2011, 55, 49.	0.3	4
147	Experimental Investigation on DME Assisted Gasoline CAI/HCCI Combustion with Intake Re-Breathing Valve Strategy. , 2015, , .		4
148	Analysis of the effect of bore/stroke ratio and scavenge port angles on the scavenging process in a two-stroke boosted uniflow scavenged direct injection gasoline engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2018, 232, 1799-1814.	1.9	4
149	Simulation of the air/fuel mixing of an HSDI diesel engine. Part 1: A new dense spray vapour coupling submodel. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2006, 220, 1793-1805.	1.9	3
150	Studies of the Control of In-cylinder Inhomogeneities in a 4VVAS Gasoline Engine. , 2008, , .		3
151	Analysis of a production-oriented air hybrid engine concept and its performance. International Journal of Powertrains, 2011, 1, 43.	0.3	3
152	Development of a high-speed two-colour system and its application to in-cylinder diesel combustion temperature and soot measurements with split injections. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 684-697.	1.9	3
153	Lean boost CAI combustion in a 2-stroke poppet valve GDI engine. , 2013, , 169-177.		3
154	Comparison of Performance, Efficiency and Emissions between Gasoline and E85 in a Two-Stroke Poppet Valve Engine with Lean Boost CAI Operation. , 2015, , .		3
155	Thermal and chemical effects of fuel direct injection on kinetically controlled combustion of alcohol and gasoline fuels. International Journal of Engine Research, 2015, 16, 982-993.	2.3	3
156	Multi-Cycle Large Eddy Simulation (LES) of the Cycle-to-Cycle Variation (CCV) of Spark Ignition (SI) - Controlled Auto-Ignition (CAI) Hybrid Combustion in a Gasoline Engine. , 2017, , .		3
157	Experimental Comparison between Stratified Flame Ignition and Micro Flame Ignition in a Gasoline SI-CAI Hybrid Combustion Engine. , 2017, , .		3
158	Experimental Investigation of Combustion and Emission Characteristics of the Direct Injection Dimethyl Ether Enabled Micro-Flame Ignited (MFI) Hybrid Combustion in a 4-Stroke Gasoline Engine. , 0, , .		3
159	Study of Flame Speed and Knocking Combustion of Gasoline, Ethanol and Hydrous Ethanol (10%) Tj ETQq1 1 0.784314 rgBT ₃ /Overlo		
160	Control and optimization of spark ignition“controlled auto-ignition hybrid combustion based on stratified flame ignition. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 3057-3073.	1.9	3
161	A Light Scattering Instrument for Sizing Mixtures of small and large particles. Particle and Particle Systems Characterization, 1996, 13, 137-142.	2.3	2
162	Numerical Study of Effects of Fuel Injection Timings on CAI/HCCI Combustion in a Four-Stroke GDI Engine. , 2005, , .		2

#	ARTICLE	IF	CITATIONS
163	Combustion and Emission Characteristics of a HCCI Engine Fuelled with Different n-Butanol-Gasoline Blends. , 2014, , .		2
164	Effect of Flame Propagation on the Auto-Ignition Timing in SI-CAI Hybrid Combustion (SCHC). , 0, , .		2
165	Gas Sampling Analysis of A Low-Temperature Compression Ignition Reaction Process in an Engine Fueled with Methanol and Gasoline. International Journal of Green Energy, 2014, 11, 329-343.	3.8	2
166	Experimental studies of the air hybrid engine charging operation. International Journal of Engine Research, 2015, 16, 925-934.	2.3	2
167	The effective use of ethanol for GHG emissions reduction in a dual-fuel engine. Proceedings, 2019, , 175-189.	0.3	2
168	Study of Exhaust Re-Breathing Application on a DI SI Engine at Partial Load Operation. , 0, , .		2
169	Kinetics of Low-Temperature Plasma-Assisted Ignition of Ethanol-Gasoline Surrogate under Gasoline Engine like Conditions. Combustion Science and Technology, 2023, 195, 2750-2773.	2.3	2
170	Numerical Investigation Into Effect of Fuel Injection Timing on CAI/HCCI Combustion in a Four-Stroke GDI Engine. International Journal for Computational Methods in Engineering Science and Mechanics, 2006, 7, 41-57.	2.1	1
171	Analysis of the effect of direct injection of alcohol fuel on minor heat release reactions and controlled autoignition combustion. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 1678-1688.	1.9	1
172	Numerical study of the effect of split direct injection on the lean-burn combustion characteristics in a poppet-valve two-stroke gasoline engine at high loads. International Journal of Engine Research, 2021, 22, 1776-1793.	2.3	1
173	The comparison between traditional spark ignition and micro flame ignition in gasoline high dilution combustion. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 2242-2252.	1.9	1
174	Analysis of the Boost System for a High Performance 2-Stroke Boosted Uniflow Scavenged Direct Injection Gasoline (BUSDIG) Engine. , 0, , .		1
175	Modelling Study of Cycle-To-Cycle Variations (CCV) in Spark Ignition (SI)-Controlled Auto-Ignition (CAI) Hybrid Combustion Engine by Using Reynolds-Averaged Navier-Stokes (RANS) and Large Eddy Simulation (LES). Energies, 2022, 15, 4478.	3.1	1
176	Experiment Study of Stratified Combustion at Different Boost Pressure. , 2009, , .		0
177	Miller cycle and wet ethanol injection for high efficiency and low NOx emissions on a HD diesel engine. , 0, , .		0
178	Study on Flame Characteristics under Conditions of Stratified Flame Ignition Hybrid Combustion. , 0, , .		0
179	The effective use of ethanol for greenhouse gas emissions reduction in a diesel engine. , 0, , .		0
180	Combustion Visualization and Experimental Study on Multi-Point Micro-Flame Ignited (MFI) Hybrid Lean-Burn Combustion in 4-Stroke Gasoline Engines. , 0, , .		0