

Brian Gainey

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

433
citations

1040056

9
h-index

888059

17
g-index

31
all docs

31
docs citations

31
times ranked

186
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixing controlled compression ignition with methanol: An experimental study of injection and EGR strategy. <i>International Journal of Engine Research</i> , 2023, 24, 1961-1972.	2.3	1
2	Lean flammability limit of high-dilution spark ignition with ethanol, propanol, and butanol. <i>International Journal of Engine Research</i> , 2022, 23, 638-648.	2.3	5
3	A parametric modeling study of thermal barrier coatings in low-temperature combustion engines. <i>Applied Thermal Engineering</i> , 2022, 200, 117687.	6.0	37
4	High Load Compression Ignition of Wet Ethanol Using a Triple Injection Strategy. <i>Energies</i> , 2022, 15, 3507.	3.1	2
5	Improving the controllability of partial fuel stratification at low boost levels by applying a double late injection strategy. <i>International Journal of Engine Research</i> , 2021, 22, 1101-1115.	2.3	6
6	The role of alcohol biofuels in advanced combustion: An analysis. <i>Fuel</i> , 2021, 283, 118915.	6.4	41
7	A fuel cell free piston gas turbine hybrid architecture for high-efficiency, load-flexible power generation. <i>Applied Energy</i> , 2021, 283, 116242.	10.1	5
8	Autoignition characterization of methanol, ethanol, propanol, and butanol over a wide range of operating conditions in LTC/HCCI. <i>Fuel</i> , 2021, 287, 119495.	6.4	44
9	Tailoring thermal stratification to enable high load low temperature combustion with wet ethanol on a gasoline engine architecture. <i>International Journal of Engine Research</i> , 2021, 22, 2548-2559.	2.3	8
10	A comprehensive experimental investigation of low-temperature combustion with thick thermal barrier coatings. <i>Energy</i> , 2021, 222, 119954.	8.8	31
11	LTC performance of C1-C4 water-alcohol blends with the same cooling potential. <i>Fuel</i> , 2021, 293, 120480.	6.4	11
12	Exploring the Effects of Piston Bowl Geometry and Injector Included Angle on Dual-Fuel and Single-Fuel RCCI. <i>Journal of Engineering for Gas Turbines and Power</i> , 2021, 143, .	1.1	6
13	A split injection of wet ethanol to enable thermally stratified compression ignition. <i>International Journal of Engine Research</i> , 2020, 21, 1441-1453.	2.3	29
14	Assessing the impact of injector included angle and piston geometry on thermally stratified compression ignition with wet ethanol. <i>Applied Energy</i> , 2020, 262, 114528.	10.1	7
15	Wet ethanol in LTC: How water fraction and DTBP affect combustion and intake temperature at naturally aspirated and boosted conditions. <i>Fuel</i> , 2020, 267, 117094.	6.4	17
16	Investigating the effect of spray included angle on thermally stratified compression ignition with wet ethanol using computational fluid dynamics. <i>Applied Thermal Engineering</i> , 2020, 170, 114964.	6.0	12
17	Experimental Study of the Effect of Start of Injection and Blend Ratio on Single Fuel Reformate RCCI. <i>Journal of Engineering for Gas Turbines and Power</i> , 2020, 142, .	1.1	5
18	On the Effects of Injection Strategy, Exhaust Gas Recirculation, and Intake Boost on TSCI With Wet Ethanol. <i>Journal of Engineering for Gas Turbines and Power</i> , 2020, 142, .	1.1	2

#	ARTICLE	IF	CITATIONS
19	An ultrafast multi-zone HCCI model with Autoignition, Global reaction and Interpolation (AGI) for achieving comparable accuracy to detailed chemical kinetics models. <i>Combustion and Flame</i> , 2020, 221, 487-501.	5.2	4
20	Catalytic partial oxidation reformation of diesel, gasoline, and natural gas for use in low temperature combustion engines. <i>Fuel</i> , 2019, 246, 295-307.	6.4	23
21	A system-level numerical study of a homogeneous charge compression ignition spring-assisted free piston linear alternator with various piston motion profiles. <i>Applied Energy</i> , 2019, 239, 820-835.	10.1	20
22	Thermally stratified compression ignition enabled by wet ethanol with a split injection strategy: A CFD simulation study. <i>Applied Energy</i> , 2019, 235, 813-826.	10.1	28
23	On the Effects of Injection Strategy, EGR, and Intake Boost on TSCI With Wet Ethanol. , 2019, , .		3
24	High Temperature HCCI Critical Compression Ratio of the C1-C4 Alcohol Fuels. <i>SAE International Journal of Advances and Current Practices in Mobility</i> , 0, 3, 1495-1507.	2.0	3
25	Thermodynamic Analysis of Novel 4-2 Stroke Opposed Piston Engine. , 0, , .		0
26	A Guide to Uncertainty Quantification for Experimental Engine Research and Heat Release Analysis. <i>SAE International Journal of Engines</i> , 0, 12, .	0.4	39
27	TSCI with Wet Ethanol: An Investigation of the Effects of Injection Strategy on a Diesel Engine Architecture. , 0, , .		16
28	HCCI with Wet Ethanol: Investigating the Charge Cooling Effect of a High Latent Heat of Vaporization Fuel in LTC. , 0, , .		14
29	Varying Intake Stroke Injection Timing of Wet Ethanol in LTC. , 0, , .		4
30	The Effects of Thick Thermal Barrier Coatings on Low-Temperature Combustion. <i>SAE International Journal of Advances and Current Practices in Mobility</i> , 0, 2, 1786-1799.	2.0	10
31	Autoignition Characterization of Wet Isopropanol-n-Butanol-Ethanol Blends for ACI. , 0, , .		0