Felix C P Leach

List of Publications by Year
in descending order

43 papers	1,222 citations	643344 15 h-index	536525 29 g-index
44 all docs	44 docs citations	44 times ranked	963 citing authors

#	Article	IF	Citations
1	Artificial neural network (ANN) assisted prediction of transient NO_x emissions from a high-speed direct injection (HSDI) diesel engine. International Journal of Engine Research, 2022, 23, 1201-1212.	1.4	9
2	Development of a laminar burning velocity empirical correlation for combustion of iso-octane/ethanol blends in air. Fuel, 2022, 307, 121880.	3.4	11
3	Impacts of emergency health protection measures upon air quality, traffic and public health: evidence from Oxford, UK. Environmental Pollution, 2022, 293, 118584.	3.7	11
4	Introduction to Engines and Fuels for Future Transport. Energy, Environment, and Sustainability, 2022, , 1-5.	0.6	2
5	Machine learning techniques to improve the field performance of low-cost air quality sensors. Atmospheric Measurement Techniques, 2022, 15, 3261-3278.	1.2	3
6	Effect of ethanol addition on the laminar burning velocities of gasoline surrogates. Fuel, 2022, 327, 125186.	3.4	4
7	On the application of artificial neural networks for the prediction of NO_x emissions from a high-speed direct injection diesel engine. International Journal of Engine Research, 2021, 22, 1808-1824.	1.4	23
8	Cyclic NO₂:NO_x ratio from a diesel engine undergoing transient load steps. International Journal of Engine Research, 2021, 22, 284-294.	1.4	17
9	Combustion and emissions from cerium oxide nanoparticle dosed diesel fuel in a high speed diesel research engine under low temperature combustion (LTC) conditions. Fuel, 2021, 288, 119636.	3.4	31
10	The Influence of Cycle-to-Cycle Hydrocarbon Emissions on Cyclic NO:NO2 Ratio From a HSDI Diesel Engine. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	1
11	A review of current and future powertrain technologies and trends in 2020. Transportation Engineering, 2021, 5, 100080.	2.3	79
12	Alcohol Fuels for Spark-Ignition Engines: Performance, Efficiency, and Emission Effects at Mid to High Blend Rates for Ternary Mixtures. Energies, 2020, 13, 6390.	1.6	10
13	The scope for improving the efficiency and environmental impact of internal combustion engines. Transportation Engineering, 2020, 1, 100005.	2.3	229
14	Identifying NOx Hotspots in Transient Urban Driving of Two Diesel Buses and a Diesel Car. Atmosphere, 2020, 11, 355.	1.0	11
15	Improving the Uncertainty of Exhaust Gas Temperature Measurements in Internal Combustion Engines. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	0.5	3
16	Prism Signal Processing of Coriolis meter data for gasoline fuel injection monitoring. Flow Measurement and Instrumentation, 2019, 70, 101645.	1.0	4
17	The effect of fuel composition on particulate emissions from a highly boosted GDI engine â€“ An evaluation of three particulate indices. Fuel, 2019, 252, 598-611.	3.4	35
18	Cycle-to-Cycle NO and NOx Emissions From a HSDI Diesel Engine. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	9

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19	Diversity in transportation: Why a mix of propulsion technologies is the way forward for the future fleet. Results in Engineering, 2019, 4, 100060.	2.2	93
20	Evaluation of exhaust gas recirculation techniques on a high-speed direct injection diesel engine using first law analysis. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 710-726.	1.1	11
21	The effect of a stepped lip piston design on performance and emissions from a high-speed diesel engine. Applied Energy, 2018, 215, 679-689.	5.1	34
22	The effect of oxygenate fuels on PN emissions from a highly boosted GDI engine. Fuel, 2018, 225, 277-286.	3.4	56
23	Alcohol fuels for spark-ignition engines: Performance, efficiency and emission effects at mid to high blend rates for binary mixtures and pure components. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2018, 232, 36-56.	1.1	37
24	Particulate emissions from a highly boosted gasoline direct injection engine. International Journal of Engine Research, 2018, 19, 347-359.	1.4	40
25	Cycle-to-Cycle NO and NOx Emissions From a HSDI Diesel Engine. , 2018, , .		1
26	A Review of Particulate Number (PN) Emissions from Gasoline Direct Injection (GDI) Engines and Their Control Techniques. Energies, 2018, 11, 1417.	1.6	173
27	Engine-out emissions from a modern high speed diesel engine â€“ The importance of Nozzle Tip Protrusion. Applied Energy, 2018, 226, 340-352.	5.1	22
28	Fast Coriolis mass flow metering for monitoring diesel fuel injection. Flow Measurement and Instrumentation, 2017, 58, 1-5.	1.0	20
29	Predicting the particulate matter emissions from spray-guided gasoline direct-injection spark ignition engines. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2017, 231, 717-730.	1.1	28
30	The Prism: Efficient Signal Processing for the Internet of Things. IEEE Industrial Electronics Magazine, 2017, 11, 22-32.	2.3	26
31	Computational Investigation of the Effects of Piston Geometry on the Combustion Evolution in a Light Duty HSDI Engine. , 2017, , .		1
32	An optical method for measuring exhaust gas pressure from an internal combustion engine at high speed. Review of Scientific Instruments, 2017, 88, 125004.	0.6	8
33	The Influence of Fuel Properties on Particulate Number Emissions from a Direct Injection Spark Ignition Engine. , 0, , .		48
34	Comparing the Effect of Fuel/Air Interactions in a Modern High-Speed Light-Duty Diesel Engine. , 0, , .		15
35	Comparing the Effect of a Swirl Flap and Asymmetric Inlet Valve Opening on a Light Duty Diesel Engine. , 0, , .		4
36	Effect of Thermocouple Size on the Measurement of Exhaust Gas Temperature in Internal Combustion Engines. , 0, , .		9

#	Article	IF	Citations
37	A Review of the Requirements for Injection Systems and the Effects of Fuel Quality on Particulate Emissions from GDI Engines. , 0, , .		37
38	A New Method for Measuring Fuel Flow in an Individual Injection in Real Time. SAE International Journal of Engines, 0, 11, 687-695.	0.4	10
39	A Random Forest Algorithmic Approach to Predicting Particulate Emissions from a Highly Boosted GDI Engine. , 0, , .		5
40	Sub-23 nm Particulate Emissions from a Highly Boosted GDI Engine. , 0, , .		15
41	Fast NGC: A New On-Line Technique for Fuel Flow Measurement. , 0, , .		0
42	Thermal Analysis of Steel and Aluminium Pistons for an HSDI Diesel Engine. , 0, , .		5
43	The Effect of an Active Thermal Coating on Efficiency and Emissions from a High Speed Direct Injection Diesel Engine. , 0, , .		1