

# Felix C P Leach

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,222  
citations

567247

15  
h-index

477281

29  
g-index

44  
all docs

44  
docs citations

44  
times ranked

840  
citing authors

#	ARTICLE	IF	CITATIONS
1	The scope for improving the efficiency and environmental impact of internal combustion engines. <i>Transportation Engineering</i> , 2020, 1, 100005.	4.2	229
2	A Review of Particulate Number (PN) Emissions from Gasoline Direct Injection (GDI) Engines and Their Control Techniques. <i>Energies</i> , 2018, 11, 1417.	3.1	173
3	Diversity in transportation: Why a mix of propulsion technologies is the way forward for the future fleet. <i>Results in Engineering</i> , 2019, 4, 100060.	5.1	93
4	A review of current and future powertrain technologies and trends in 2020. <i>Transportation Engineering</i> , 2021, 5, 100080.	4.2	79
5	The effect of oxygenate fuels on PN emissions from a highly boosted GDI engine. <i>Fuel</i> , 2018, 225, 277-286.	6.4	56
6	The Influence of Fuel Properties on Particulate Number Emissions from a Direct Injection Spark Ignition Engine. , 0, , .		48
7	Particulate emissions from a highly boosted gasoline direct injection engine. <i>International Journal of Engine Research</i> , 2018, 19, 347-359.	2.3	40
8	Alcohol fuels for spark-ignition engines: Performance, efficiency and emission effects at mid to high blend rates for binary mixtures and pure components. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2018, 232, 36-56.	1.9	37
9	A Review of the Requirements for Injection Systems and the Effects of Fuel Quality on Particulate Emissions from GDI Engines. , 0, , .		37
10	The effect of fuel composition on particulate emissions from a highly boosted GDI engine – An evaluation of three particulate indices. <i>Fuel</i> , 2019, 252, 598-611.	6.4	35
11	The effect of a stepped lip piston design on performance and emissions from a high-speed diesel engine. <i>Applied Energy</i> , 2018, 215, 679-689.	10.1	34
12	Combustion and emissions from cerium oxide nanoparticle dosed diesel fuel in a high speed diesel research engine under low temperature combustion (LTC) conditions. <i>Fuel</i> , 2021, 288, 119636.	6.4	31
13	Predicting the particulate matter emissions from spray-guided gasoline direct-injection spark ignition engines. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2017, 231, 717-730.	1.9	28
14	The Prism: Efficient Signal Processing for the Internet of Things. <i>IEEE Industrial Electronics Magazine</i> , 2017, 11, 22-32.	2.6	26
15	On the application of artificial neural networks for the prediction of NO <sub>x</sub> emissions from a high-speed direct injection diesel engine. <i>International Journal of Engine Research</i> , 2021, 22, 1808-1824.	2.3	23
16	Engine-out emissions from a modern high speed diesel engine – The importance of Nozzle Tip Protrusion. <i>Applied Energy</i> , 2018, 226, 340-352.	10.1	22
17	Fast Coriolis mass flow metering for monitoring diesel fuel injection. <i>Flow Measurement and Instrumentation</i> , 2017, 58, 1-5.	2.0	20
18	Cyclic NO <sub>2</sub> :NO <sub>x</sub> ratio from a diesel engine undergoing transient load steps. <i>International Journal of Engine Research</i> , 2021, 22, 284-294.	2.3	17

#	ARTICLE	IF	CITATIONS
19	Comparing the Effect of Fuel/Air Interactions in a Modern High-Speed Light-Duty Diesel Engine. , 0, , .		15
20	Sub-23 nm Particulate Emissions from a Highly Boosted GDI Engine. , 0, , .		15
21	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.	1.9	11
22	Identifying NO <sub>x</sub> Hotspots in Transient Urban Driving of Two Diesel Buses and a Diesel Car. Atmosphere, 2020, 11, 355.	2.3	11
23	Development of a laminar burning velocity empirical correlation for combustion of iso-octane/ethanol blends in air. Fuel, 2022, 307, 121880.	6.4	11
24	Impacts of emergency health protection measures upon air quality, traffic and public health: evidence from Oxford, UK. Environmental Pollution, 2022, 293, 118584.	7.5	11
25	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
26	Alcohol Fuels for Spark-Ignition Engines: Performance, Efficiency, and Emission Effects at Mid to High Blend Rates for Ternary Mixtures. Energies, 2020, 13, 6390.	3.1	10
27	Effect of Thermocouple Size on the Measurement of Exhaust Gas Temperature in Internal Combustion Engines. , 0, , .		9
28	Cycle-to-Cycle NO and NO <sub>x</sub> Emissions From a HSDI Diesel Engine. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	9
29	Artificial neural network (ANN) assisted prediction of transient NO <sub>x</sub> emissions from a high-speed direct injection (HSDI) diesel engine. International Journal of Engine Research, 2022, 23, 1201-1212.	2.3	9
30	An optical method for measuring exhaust gas pressure from an internal combustion engine at high speed. Review of Scientific Instruments, 2017, 88, 125004.	1.3	8
31	A Random Forest Algorithmic Approach to Predicting Particulate Emissions from a Highly Boosted GDI Engine. , 0, , .		5
32	Thermal Analysis of Steel and Aluminium Pistons for an HSDI Diesel Engine. , 0, , .		5
33	Comparing the Effect of a Swirl Flap and Asymmetric Inlet Valve Opening on a Light Duty Diesel Engine. , 0, , .		4
34	Prism Signal Processing of Coriolis meter data for gasoline fuel injection monitoring. Flow Measurement and Instrumentation, 2019, 70, 101645.	2.0	4
35	Effect of ethanol addition on the laminar burning velocities of gasoline surrogates. Fuel, 2022, 327, 125186.	6.4	4
36	Improving the Uncertainty of Exhaust Gas Temperature Measurements in Internal Combustion Engines. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	1.1	3

#	ARTICLE	IF	CITATIONS
37	Machine learning techniques to improve the field performance of low-cost air quality sensors. Atmospheric Measurement Techniques, 2022, 15, 3261-3278.	3.1	3
38	Introduction to Engines and Fuels for Future Transport. Energy, Environment, and Sustainability, 2022, , 1-5.	1.0	2
39	Computational Investigation of the Effects of Piston Geometry on the Combustion Evolution in a Light Duty HSDI Engine. , 2017, , .		1
40	Cycle-to-Cycle NO and NOx Emissions From a HSDI Diesel Engine. , 2018, , .		1
41	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, .	1.1	1
42	The Effect of an Active Thermal Coating on Efficiency and Emissions from a High Speed Direct Injection Diesel Engine. , 0, , .		1
43	Fast NGC: A New On-Line Technique for Fuel Flow Measurement. , 0, , .		0