Jose Manuel LujÃ¡n Martinez

List of Publications by Year
in descending order

65 papers	1,761 citations	279798 23 h-index	315739 38 g-index
66 all docs	66 docs citations	66 times ranked	1219 citing authors

#	Article	IF	Citations
1	Experimental Characterization of Real Driving Cycles in a Light-Duty Diesel Engine under Different Dynamic Conditions. Applied Sciences (Switzerland), 2022, 12, 2472.	2.5	4
2	Cylinder-to-cylinder high-pressure exhaust gas recirculation dispersion effect on opacity and NOx emissions in a diesel automotive engine. International Journal of Engine Research, 2021, 22, 1154-1165.	2.3	5
3	Adaptive calibration of Diesel engine injection for minimising fuel consumption with constrained NOx emissions in actual driving missions. International Journal of Engine Research, 2021, 22, 1896-1905.	2.3	7
4	High-pressure exhaust gas recirculation line condensation model of an internal combustion diesel engine operating at cold conditions. International Journal of Engine Research, 2021, 22, 407-416.	2.3	15
5	Impact of driving dynamics in RDE test on NO_x emissions dispersion. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2020, 234, 1770-1778.	1.9	19
6	Optimal control of a turbocharged direct injection diesel engine by direct method optimization. International Journal of Engine Research, 2019, 20, 640-652.	2.3	7
7	Effectiveness of hybrid powertrains to reduce the fuel consumption and NOx emissions of a Euro 6d-temp diesel engine under real-life driving conditions. Energy Conversion and Management, 2019, 199, 111987.	9.2	57
8	Turbine and exhaust ports thermal insulation impact on the engine efficiency and aftertreatment inlet temperature. Applied Energy, 2019, 240, 409-423.	10.1	23
9	Influence of ambient temperature on diesel engine raw pollutants and fuel consumption in different driving cycles. International Journal of Engine Research, 2019, 20, 877-888.	2.3	20
10	Analytical Optimal Solution to the Energy Management Problem in Series Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2018, 67, 6803-6813.	6.3	25
11	Analysis of low-pressure exhaust gases recirculation transport and control in transient operation of automotive diesel engines. Applied Thermal Engineering, 2018, 137, 184-192.	6.0	9
12	Pollutant emissions and diesel oxidation catalyst performance at low ambient temperatures in transient load conditions. Applied Thermal Engineering, 2018, 129, 1527-1537.	6.0	19
13	An assessment of the real-world driving gaseous emissions from a Euro 6 light-duty diesel vehicle using a portable emissions measurement system (PEMS). Atmospheric Environment, 2018, 174, 112-121.	4.1	104
14	Analysis of Regulated Pollutant Emissions and Aftertreatment Efficiency in a GTDi Engine Using Different SOI Strategies. SAE International Journal of Engines, 2018, 11, 363-382.	0.4	2
15	Fuel and Pollutant Efficient Vehicle Speed Optimization in Real Driving Conditions. IFAC-PapersOnLine, 2018, 51, 225-232.	0.9	4
16	Volumetric efficiency modelling of internal combustion engines based on a novel adaptive learning algorithm of artificial neural networks. Applied Thermal Engineering, 2017, 123, 625-634.	6.0	42
17	Potential of exhaust heat recovery for intake charge heating in a diesel engine transient operation at cold conditions. Applied Thermal Engineering, 2016, 105, 501-508.	6.0	21
18	Cost of ownership-efficient hybrid electric vehicle powertrain sizing for multi-scenario driving cycles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2016, 230, 382-394.	1.9	14

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19	Estimation of trapped mass by in-cylinder pressure resonance in HCCI engines. Mechanical Systems and Signal Processing, 2016, 66-67, 862-874.	8.0	25
20	A Challenging Future for the IC Engine: New Technologies and the Control Role. Oil and Gas Science and Technology, 2015, 70, 15-30.	1.4	57
21	Experimental assessment of a pre-turbo aftertreatment configuration in a single stage turbocharged diesel engine. Part 2: Transient operation. Energy, 2015, 80, 614-627.	8.8	14
22	New European Driving Cycle assessment by means of particle size distributions in a light-duty diesel engine fuelled with different fuel formulations. Fuel, 2015, 140, 649-659.	6.4	13
23	Influence of a low pressure EGR loop on a gasoline turbocharged direct injection engine. Applied Thermal Engineering, 2015, 89, 432-443.	6.0	76
24	Exhaust gas recirculation dispersion analysis using in-cylinder pressure measurements in automotive diesel engines. Applied Thermal Engineering, 2015, 89, 459-468.	6.0	12
25	Assessment of pollutants emission and aftertreatment efficiency in a GTDi engine including cooled LP-EGR system under different steady-state operating conditions. Applied Energy, 2015, 158, 459-473.	10.1	24
26	Switching strategy between HP (high pressure)- and LPEGR (low pressure exhaust gas recirculation) systems for reduced fuel consumption and emissions. Energy, 2015, 90, 1790-1798.	8.8	28
27	Experimental assessment of pre-turbo aftertreatment configurations in a single stage turbocharged diesel engine. Part 1: Steady-state operation. Energy, 2015, 80, 599-613.	8.8	26
28	A New Model for Matching Advanced Boosting Systems to Automotive Diesel Engines. SAE International Journal of Engines, 2014, 7, 131-144.	0.4	7
29	Considerations on the low-pressure exhaust gas recirculation system control in turbocharged diesel engines. International Journal of Engine Research, 2014, 15, 250-260.	2.3	4
30	Pollutants emission and particle behavior in a pre-turbo aftertreatment light-duty diesel engine. Energy, 2014, 66, 509-522.	8.8	21
31	Heat transfer modeling in exhaust systems of high-performance two-stroke engines. Applied Thermal Engineering, 2014, 69, 96-104.	6.0	8
32	On the combination of high-pressure and low-pressure exhaust gas recirculation loops for improved fuel economy and reduced emissions in high-speed direct-injection engines. International Journal of Engine Research, 2013, 14, 3-11.	2.3	21
33	Model of the expansion process for R245fa in an Organic Rankine Cycle (ORC). Applied Thermal Engineering, 2012, 40, 248-257.	6.0	47
34	Reply to notes on â€œA methodology for combustion detection in diesel engines through in-cylinder pressure derivative signal". Mechanical Systems and Signal Processing, 2011, 25, 3211.	8.0	0
35	Effects of low pressure exhaust gas recirculation on regulated and unregulated gaseous emissions during NEDC in a light-duty diesel engine. Energy, 2011, 36, 5655-5665.	8.8	52
36	Comparative study of regulated and unregulated gaseous emissions during NEDC in a light-duty diesel engine fuelled with Fischer Tropsch and biodiesel fuels. Biomass and Bioenergy, 2011, 35, 789-798.	5.7	77

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37	Potential of Using a Nozzle at the Compressor Inlet of a High-Speed Direct-Injection Diesel Engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2011, 225, 178-189.	1.9	6
38	Digital signal processing of in-cylinder pressure for combustion diagnosis of internal combustion engines. Mechanical Systems and Signal Processing, 2010, 24, 1767-1784.	8.0	85
39	A methodology for combustion detection in diesel engines through in-cylinder pressure derivative signal. Mechanical Systems and Signal Processing, 2010, 24, 2261-2275.	8.0	67
40	Comparative analysis of a DI diesel engine fuelled with biodiesel blends during the European MVEG-A cycle: Preliminary study (I). Biomass and Bioenergy, 2009, 33, 941-947.	5.7	45
41	Comparative analysis of a DI diesel engine fuelled with biodiesel blends during the European MVEG-A cycle: Performance and emissions (II). Biomass and Bioenergy, 2009, 33, 948-956.	5.7	95
42	Measurement of hydrocarbon and carbon monoxide emissions during the starting of automotive DI Diesel engines. International Journal of Automotive Technology, 2008, 9, 129-140.	1.4	24
43	A procedure to reduce pollutant gases from Diesel combustion during European MVEG-A cycle by using electrical intake air-heaters. Fuel, 2008, 87, 2760-2778.	6.4	28
44	A methodology to identify the intake charge cylinder-to-cylinder distribution in turbocharged direct injection Diesel engines. Measurement Science and Technology, 2008, 19, 065401.	2.6	29
45	Transient particle emission measurement with optical techniques. Measurement Science and Technology, 2008, 19, 065404.	2.6	12
46	Analysis of the Air-Fuel Mixture Control in Natural Gas Fuelled Turbocharged Engines. , 2008, , .		1
47	Characterization and dynamic response of an exhaust gas recirculation venturi for internal combustion engines. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2007, 221, 497-509.	1.9	6
48	Overview of HCCI diesel engines. , 2007, , 241-267e.		4
49	Description of a heat transfer model suitable to calculate transient processes of turbocharged diesel engines with one-dimensional gas-dynamic codes. Applied Thermal Engineering, 2006, 26, 66-76.	6.0	41
50	A comparison of different methods for fuel delivery unevenness detection in Diesel engines. Mechanical Systems and Signal Processing, 2006, 20, 2219-2231.	8.0	30
51	An approach to model-based fault detection in industrial measurement systems with application to engine test benches. Measurement Science and Technology, 2006, 17, 1809-1818.	2.6	48
52	A method for data consistency checking in compressor and variable-geometry turbine maps. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2006, 220, 1465-1473.	1.9	2
53	DFT-based controller for fuel injection unevenness correction in turbocharged diesel engines. IEEE Transactions on Control Systems Technology, 2006, 14, 819-827.	5.2	22
54	Injection diagnosis through common-rail pressure measurement. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2006, 220, 347-357.	1.9	43

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55	Combustion simulation of turbocharger HSDI Diesel engines during transient operation using neural networks. Applied Thermal Engineering, 2005, 25, 877-898.	6.0	60
56	Fault Detection in Engine Measurement Systems by a Model-Based Approach. , 2004, , .		2
57	Exhaust pressure pulsation observation from turbocharger instantaneous speed measurement. Measurement Science and Technology, 2004, 15, 1185-1194.	2.6	19
58	Design of an exhaust manifold to improve transient performance of a high-speed turbocharged diesel engine. Experimental Thermal and Fluid Science, 2004, 28, 863-875.	2.7	53
59	Modelling of turbocharged diesel engines in transient operation. Part 1: Insight into the relevant physical phenomena. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2002, 216, 431-441.	1.9	47
60	Intake Valve Pre-lift Effect on the Performance of a Turbocharged Diesel Engine. , 1996, , .		16
61	Modelling Study of the Scavenging Process in a Turbocharged Diesel Engine with Modified Valve Operation. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 1996, 210, 383-393.	2.1	24
62	Acidic Condensation in Low Pressure EGR Systems using Diesel and Biodiesel Fuels. SAE International Journal of Fuels and Lubricants, 0, 2, 305-312.	0.2	16
63	Characterization of EGR Cooler Response for a Range of Engine Conditions. SAE International Journal of Engines, 0, 6, 587-595.	0.4	5
64	Engine test bench feasibility for the study and research of real driving cycles: Pollutant emissions uncertainty characterization. International Journal of Engine Research, 0, , 146808742110079.	2.3	3
65	Analysis of pollutant emissions and fuel consumption, during real driving cycles in different intake temperature scenarios. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 0, , 095440702210784.	1.9	0