

Jose Manuel Luján Martínez

List of Publications by Year in descending order

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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	An assessment of the real-world driving gaseous emissions from a Euro 6 light-duty diesel vehicle using a portable emissions measurement system (PEMS). <i>Atmospheric Environment</i> , 2018, 174, 112-121.	4.1	104
2	Comparative analysis of a DI diesel engine fuelled with biodiesel blends during the European MVEG-A cycle: Performance and emissions (II). <i>Biomass and Bioenergy</i> , 2009, 33, 948-956.	5.7	95
3	Digital signal processing of in-cylinder pressure for combustion diagnosis of internal combustion engines. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 1767-1784.	8.0	85
4	Comparative study of regulated and unregulated gaseous emissions during NEDC in a light-duty diesel engine fuelled with Fischer Tropsch and biodiesel fuels. <i>Biomass and Bioenergy</i> , 2011, 35, 789-798.	5.7	77
5	Influence of a low pressure EGR loop on a gasoline turbocharged direct injection engine. <i>Applied Thermal Engineering</i> , 2015, 89, 432-443.	6.0	76
6	A methodology for combustion detection in diesel engines through in-cylinder pressure derivative signal. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 2261-2275.	8.0	67
7	Combustion simulation of turbocharger HSDI Diesel engines during transient operation using neural networks. <i>Applied Thermal Engineering</i> , 2005, 25, 877-898.	6.0	60
8	A Challenging Future for the IC Engine: New Technologies and the Control Role. <i>Oil and Gas Science and Technology</i> , 2015, 70, 15-30.	1.4	57
9	Effectiveness of hybrid powertrains to reduce the fuel consumption and NOx emissions of a Euro 6d-temp diesel engine under real-life driving conditions. <i>Energy Conversion and Management</i> , 2019, 199, 111987.	9.2	57
10	Design of an exhaust manifold to improve transient performance of a high-speed turbocharged diesel engine. <i>Experimental Thermal and Fluid Science</i> , 2004, 28, 863-875.	2.7	53
11	Effects of low pressure exhaust gas recirculation on regulated and unregulated gaseous emissions during NEDC in a light-duty diesel engine. <i>Energy</i> , 2011, 36, 5655-5665.	8.8	52
12	An approach to model-based fault detection in industrial measurement systems with application to engine test benches. <i>Measurement Science and Technology</i> , 2006, 17, 1809-1818.	2.6	48
13	Modelling of turbocharged diesel engines in transient operation. Part 1: Insight into the relevant physical phenomena. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2002, 216, 431-441.	1.9	47
14	Model of the expansion process for R245fa in an Organic Rankine Cycle (ORC). <i>Applied Thermal Engineering</i> , 2012, 40, 248-257.	6.0	47
15	Comparative analysis of a DI diesel engine fuelled with biodiesel blends during the European MVEG-A cycle: Preliminary study (I). <i>Biomass and Bioenergy</i> , 2009, 33, 941-947.	5.7	45
16	Injection diagnosis through common-rail pressure measurement. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2006, 220, 347-357.	1.9	43
17	Volumetric efficiency modelling of internal combustion engines based on a novel adaptive learning algorithm of artificial neural networks. <i>Applied Thermal Engineering</i> , 2017, 123, 625-634.	6.0	42
18	Description of a heat transfer model suitable to calculate transient processes of turbocharged diesel engines with one-dimensional gas-dynamic codes. <i>Applied Thermal Engineering</i> , 2006, 26, 66-76.	6.0	41

#	ARTICLE	IF	CITATIONS
19	A comparison of different methods for fuel delivery unevenness detection in Diesel engines. <i>Mechanical Systems and Signal Processing</i> , 2006, 20, 2219-2231.	8.0	30
20	A methodology to identify the intake charge cylinder-to-cylinder distribution in turbocharged direct injection Diesel engines. <i>Measurement Science and Technology</i> , 2008, 19, 065401.	2.6	29
21	A procedure to reduce pollutant gases from Diesel combustion during European MVEG-A cycle by using electrical intake air-heaters. <i>Fuel</i> , 2008, 87, 2760-2778.	6.4	28
22	Switching strategy between HP (high pressure)- and LPEGR (low pressure exhaust gas recirculation) systems for reduced fuel consumption and emissions. <i>Energy</i> , 2015, 90, 1790-1798.	8.8	28
23	Experimental assessment of pre-turbo aftertreatment configurations in a single stage turbocharged diesel engine. Part 1: Steady-state operation. <i>Energy</i> , 2015, 80, 599-613.	8.8	26
24	Estimation of trapped mass by in-cylinder pressure resonance in HCCI engines. <i>Mechanical Systems and Signal Processing</i> , 2016, 66-67, 862-874.	8.0	25
25	Analytical Optimal Solution to the Energy Management Problem in Series Hybrid Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 6803-6813.	6.3	25
26	Modelling Study of the Scavenging Process in a Turbocharged Diesel Engine with Modified Valve Operation. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 1996, 210, 383-393.	2.1	24
27	Measurement of hydrocarbon and carbon monoxide emissions during the starting of automotive DI Diesel engines. <i>International Journal of Automotive Technology</i> , 2008, 9, 129-140.	1.4	24
28	Assessment of pollutants emission and aftertreatment efficiency in a GTDi engine including cooled LP-EGR system under different steady-state operating conditions. <i>Applied Energy</i> , 2015, 158, 459-473.	10.1	24
29	Turbine and exhaust ports thermal insulation impact on the engine efficiency and aftertreatment inlet temperature. <i>Applied Energy</i> , 2019, 240, 409-423.	10.1	23
30	DFT-based controller for fuel injection unevenness correction in turbocharged diesel engines. <i>IEEE Transactions on Control Systems Technology</i> , 2006, 14, 819-827.	5.2	22
31	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. <i>International Journal of Engine Research</i> , 2013, 14, 3-11.	2.3	21
32	Pollutants emission and particle behavior in a pre-turbo aftertreatment light-duty diesel engine. <i>Energy</i> , 2014, 66, 509-522.	8.8	21
33	Potential of exhaust heat recovery for intake charge heating in a diesel engine transient operation at cold conditions. <i>Applied Thermal Engineering</i> , 2016, 105, 501-508.	6.0	21
34	Influence of ambient temperature on diesel engine raw pollutants and fuel consumption in different driving cycles. <i>International Journal of Engine Research</i> , 2019, 20, 877-888.	2.3	20
35	Exhaust pressure pulsation observation from turbocharger instantaneous speed measurement. <i>Measurement Science and Technology</i> , 2004, 15, 1185-1194.	2.6	19
36	Pollutant emissions and diesel oxidation catalyst performance at low ambient temperatures in transient load conditions. <i>Applied Thermal Engineering</i> , 2018, 129, 1527-1537.	6.0	19

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37	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
38	Intake Valve Pre-lift Effect on the Performance of a Turbocharged Diesel Engine. , 1996, , .		16
39	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
40	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
41	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
42	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
43	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
44	Transient particle emission measurement with optical techniques. Measurement Science and Technology, 2008, 19, 065404.	2.6	12
45	Exhaust gas recirculation dispersion analysis using in-cylinder pressure measurements in automotive diesel engines. Applied Thermal Engineering, 2015, 89, 459-468.	6.0	12
46	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
47	Heat transfer modeling in exhaust systems of high-performance two-stroke engines. Applied Thermal Engineering, 2014, 69, 96-104.	6.0	8
48	A New Model for Matching Advanced Boosting Systems to Automotive Diesel Engines. SAE International Journal of Engines, 2014, 7, 131-144.	0.4	7
49	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
50	Adaptive calibration of Diesel engine injection for minimising fuel consumption with constrained NO _x emissions in actual driving missions. International Journal of Engine Research, 2021, 22, 1896-1905.	2.3	7
51	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
52	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
53	Characterization of EGR Cooler Response for a Range of Engine Conditions. SAE International Journal of Engines, 0, 6, 587-595.	0.4	5
54	Cylinder-to-cylinder high-pressure exhaust gas recirculation dispersion effect on opacity and NO _x emissions in a diesel automotive engine. International Journal of Engine Research, 2021, 22, 1154-1165.	2.3	5

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55	Overview of HCCI diesel engines. , 2007, , 241-267e.		4
56	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
57	Fuel and Pollutant Efficient Vehicle Speed Optimization in Real Driving Conditions. IFAC-PapersOnLine, 2018, 51, 225-232.	0.9	4
58	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
59	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
60	Fault Detection in Engine Measurement Systems by a Model-Based Approach. , 2004, , .		2
61	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
62	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
63	Analysis of the Air-Fuel Mixture Control in Natural Gas Fuelled Turbocharged Engines. , 2008, , .		1
64	Reply to notes on "A methodology for combustion detection in diesel engines through in-cylinder pressure derivative signal". Mechanical Systems and Signal Processing, 2011, 25, 3211.	8.0	0
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