

Jaime MartÃ-Ã-n

List of Publications by Year in descending order

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48
papers

1,493
citations

361413

20
h-index

377865

34
g-index

48
all docs

48
docs citations

48
times ranked

820
citing authors

#	ARTICLE	IF	CITATIONS
1	A complete OD thermodynamic predictive model for direct injection diesel engines. Applied Energy, 2011, 88, 4632-4641.	10.1	150
2	Influence of measurement errors and estimated parameters on combustion diagnosis. Applied Thermal Engineering, 2006, 26, 226-236.	6.0	146
3	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
4	Experiments on the influence of inlet charge and coolant temperature on performance and emissions of a DI Diesel engine. Experimental Thermal and Fluid Science, 2006, 30, 633-641.	2.7	74
5	Combustion noise level assessment in direct injection Diesel engines by means of in-cylinder pressure components. Measurement Science and Technology, 2007, 18, 2131-2142.	2.6	70
6	A new methodology for uncertainties characterization in combustion diagnosis and thermodynamic modelling. Applied Thermal Engineering, 2014, 71, 389-399.	6.0	67
7	A New Tool to Perform Global Energy Balances in DI Diesel Engines. SAE International Journal of Engines, 0, 7, 43-59.	0.4	64
8	Semiempirical in-cylinder pressure based model for NOX prediction oriented to control applications. Applied Thermal Engineering, 2011, 31, 3275-3275.	6.0	56
9	Effect of advancing the closing angle of the intake valves on diffusion-controlled combustion in a HD diesel engine. Applied Thermal Engineering, 2009, 29, 1947-1954.	6.0	51
10	Investigation of Diesel combustion using multiple injection strategies for idling after cold start of passenger-car engines. Experimental Thermal and Fluid Science, 2010, 34, 857-865.	2.7	50
11	Experimental analysis of the global energy balance in a DI diesel engine. Applied Thermal Engineering, 2015, 89, 545-557.	6.0	48
12	A contribution to film coefficient estimation in piston cooling galleries. Experimental Thermal and Fluid Science, 2010, 34, 142-151.	2.7	44
13	A Tool for Predicting the Thermal Performance of a Diesel Engine. Heat Transfer Engineering, 2011, 32, 891-904.	1.9	40
14	Computational Study of Heat Transfer to the Walls of a DI Diesel Engine. , 0, , .		35
15	In-cylinder soot radiation heat transfer in direct-injection diesel engines. Energy Conversion and Management, 2015, 106, 414-427.	9.2	35
16	Adaptive determination of cut-off frequencies for filtering the in-cylinder pressure in diesel engines combustion analysis. Applied Thermal Engineering, 2011, 31, 2869-2876.	6.0	34
17	Swirl ratio and post injection strategies to improve late cycle diffusion combustion in a light-duty diesel engine. Applied Thermal Engineering, 2017, 123, 365-376.	6.0	34
18	Development of a control-oriented model to optimise fuel consumption and NOX emissions in a DI Diesel engine. Applied Energy, 2014, 119, 405-416.	10.1	33

#	ARTICLE	IF	CITATIONS
19	Understanding the performance of the multiple injection gasoline partially premixed combustion concept implemented in a 2-Stroke high speed direct injection compression ignition engine. Applied Energy, 2016, 161, 465-475.	10.1	33
20	Development of a Mixing and Combustion Zero-Dimensional Model for Diesel Engines. , 0, , .		22
21	Evaluation of swirl effect on the Global Energy Balance of a HSDI Diesel engine. Energy, 2017, 122, 168-181.	8.8	22
22	Implementation of two color method to investigate late cycle soot oxidation process in a CI engine under low load conditions. Applied Thermal Engineering, 2017, 113, 878-890.	6.0	22
23	A general model to evaluate mechanical losses and auxiliary energy consumption in reciprocating internal combustion engines. Tribology International, 2018, 123, 161-179.	5.9	22
24	Effect of the trapped mass and its composition on the heat transfer in the compression cycle of a reciprocating engine. Applied Thermal Engineering, 2005, 25, 2842-2853.	6.0	21
25	Development of an Integrated Virtual Engine Model to Simulate New Standard Testing Cycles. , 0, , .		20
26	Analysis of the energy balance during World harmonized Light vehicles Test Cycle in warmed and cold conditions using a Virtual Engine. International Journal of Engine Research, 2020, 21, 1037-1054.	2.3	18
27	Thermal analysis of a light-duty CI engine operating with diesel-gasoline dual-fuel combustion mode. Energy, 2016, 115, 1305-1319.	8.8	17
28	A Combination of Swirl Ratio and Injection Strategy to Increase Engine Efficiency. SAE International Journal of Engines, 0, 10, 1204-1216.	0.4	17
29	Improvement and application of a methodology to perform the Global Energy Balance in internal combustion engines. Part 1: Global Energy Balance tool development and calibration. Energy, 2018, 152, 666-681.	8.8	14
30	Diesel engine optimization and exhaust thermal management by means of variable valve train strategies. International Journal of Engine Research, 2021, 22, 1196-1213.	2.3	14
31	An Investigation of Radiation Heat Transfer in a Light-Duty Diesel Engine. SAE International Journal of Engines, 0, 8, 2199-2212.	0.4	13
32	An adapted heat transfer model for engines with tumble motion. Applied Energy, 2015, 158, 190-202.	10.1	13
33	Analysis of Engine Walls Thermal Insulation: Performance and Emissions. , 0, , .		12
34	Methodology for Optical Engine Characterization by Means of the Combination of Experimental and Modeling Techniques. Applied Sciences (Switzerland), 2018, 8, 2571.	2.5	11
35	Effect of the exhaust thermal insulation on the engine efficiency and the exhaust temperature under transient conditions. International Journal of Engine Research, 2021, 22, 2869-2883.	2.3	11
36	Assessing the optimum combustion under constrained conditions. International Journal of Engine Research, 2020, 21, 811-823.	2.3	10

#	ARTICLE	IF	CITATIONS
37	Experimental and Theoretical Analysis of the Energy Balance in a DI Diesel Engine. , 2015, , .		9
38	Improvement in engine thermal management by changing coolant and oil mass. Applied Thermal Engineering, 2022, 212, 118513.	6.0	9
39	A Soot Radiation Model for Diesel Sprays. , 2012, , .		8
40	Characterization of In-Cylinder Soot Oxidation Using Two-Color Pyrometry in a Production Light-Duty Diesel Engine. , 2016, , .		8
41	Development of a Variable Valve Actuation Control to Improve Diesel Oxidation Catalyst Efficiency and Emissions in a Light Duty Diesel Engine. Energies, 2020, 13, 4561.	3.1	8
42	Evaluation of EGR Effect on the Global Energy Balance of a High Speed DI Diesel Engine. , 0, , .		7
43	Development and Validation of a Submodel for Thermal Exchanges in the Hydraulic Circuits of a Global Engine Model. , 2018, , .		6
44	Effect of in-cylinder swirl on engine efficiency and heat rejection in a light-duty diesel engine. International Journal of Engine Research, 2017, 18, 81-92.	2.3	3
45	Application of a zero-dimensional model to assess the effect of swirl on indicated efficiency. International Journal of Engine Research, 2019, 20, 837-848.	2.3	3
46	Analysis of temperature and altitude effects on the Global Energy Balance during WLTC. International Journal of Engine Research, 2022, 23, 1831-1849.	2.3	3
47	Estimation of the in-cylinder residual mass fraction at intake valve closing in a two-stroke high-speed direct-injection compression-ignition engine. International Journal of Engine Research, 2020, 21, 838-855.	2.3	1
48	Characterization of the turbulent flame front surface in spark ignition engines during spark ignition operation to identify controlled auto-ignition and abnormal combustion. International Journal of Engine Research, 2021, 22, 2149-2168.	2.3	0