

Francisco Jimenez Espadafor

List of Publications by Year in descending order

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45
papers

875
citations

471509

17
h-index

501196

28
g-index

45
all docs

45
docs citations

45
times ranked

888
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of a diesel generator crankshaft failure. <i>Engineering Failure Analysis</i> , 2009, 16, 2333-2341.	4.0	67
2	Experimental analysis of low temperature combustion mode with diesel and biodiesel fuels: A method for reducing NOx and soot emissions. <i>Fuel Processing Technology</i> , 2012, 103, 57-63.	7.2	66
3	Analysis of combustion turbine inlet air cooling systems applied to an operating cogeneration power plant. <i>Energy Conversion and Management</i> , 2008, 49, 2130-2141.	9.2	60
4	Experimental study of the performances of a modified diesel engine operating in homogeneous charge compression ignition (HCCI) combustion mode versus the original diesel combustion mode. <i>Energy</i> , 2009, 34, 159-171.	8.8	51
5	The viability of pure vegetable oil as an alternative fuel for large ships. <i>Transportation Research, Part D: Transport and Environment</i> , 2009, 14, 461-469.	6.8	39
6	Feasibility analysis of a MED desalination plant in a combined cycle based cogeneration facility. <i>Applied Thermal Engineering</i> , 2009, 29, 412-417.	6.0	38
7	Failure analysis of reciprocating compressor crankshafts. <i>Engineering Failure Analysis</i> , 2011, 18, 735-746.	4.0	38
8	Supercritical Water Oxidation of Oily Wastes at Pilot Plant: Simulation for Energy Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 775-784.	3.7	36
9	Experimental analysis of NOx reduction through water addition and comparison with exhaust gas recycling. <i>Energy</i> , 2019, 168, 737-752.	8.8	34
10	A new heat release rate (HRR) law for homogeneous charge compression ignition (HCCI) combustion mode. <i>Applied Thermal Engineering</i> , 2009, 29, 3654-3662.	6.0	32
11	Torsional system dynamics of low speed diesel engines based on instantaneous torque: Application to engine diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2019, 116, 858-878.	8.0	30
12	Analysis of the effect of different hydrogen/diesel ratios on the performance and emissions of a modified compression ignition engine under dual-fuel mode with water injection. <i>Hydrogen-diesel dual-fuel mode. Energy</i> , 2019, 172, 702-711.	8.8	25
13	A methodology for cracks identification in large crankshafts. <i>Mechanical Systems and Signal Processing</i> , 2011, 25, 3168-3185.	8.0	23
14	Measurement and analysis of instantaneous torque and angular velocity variations of a low speed two stroke diesel engine. <i>Mechanical Systems and Signal Processing</i> , 2014, 49, 135-153.	8.0	23
15	Prediction of performance, energy savings and increase in profitability of two gas turbine steam generator cogeneration plant, based on experimental data. <i>Energy</i> , 2011, 36, 742-754.	8.8	21
16	SPHERA project: Assessing the use of syngas fuels in gas turbines and combined cycles from a global perspective. <i>Fuel Processing Technology</i> , 2012, 103, 134-145.	7.2	20
17	Effect of Turbulence and External Exhaust Gas Recirculation on HCCI Combustion Mode and Exhaust Emissions. <i>Energy & Fuels</i> , 2009, 23, 4295-4303.	5.1	19
18	Fully optimized energy management for propulsion, thermal cooling and auxiliaries of a serial hybrid electric vehicle. <i>Applied Thermal Engineering</i> , 2015, 91, 694-705.	6.0	17

#	ARTICLE	IF	CITATIONS
19	Prediction of hydrogen-heavy fuel combustion process with water addition in an adapted low speed two stroke diesel engine: Performance improvement. Applied Thermal Engineering, 2021, 195, 117250.	6.0	17
20	Correcting injection pressure maladjustments to reduce NOX emissions by marine diesel engines. Transportation Research, Part D: Transport and Environment, 2009, 14, 61-66.	6.8	16
21	Infantry mobility hybrid electric vehicle performance analysis and design. Applied Energy, 2011, 88, 2641-2652.	10.1	16
22	Numerical study of HCCI combustion fueled with diesel oil using a multizone model approach. Energy Conversion and Management, 2015, 89, 885-895.	9.2	16
23	Analysis of regulation methods of a combined heat and power plant based on gas turbines. Energy, 2014, 72, 574-589.	8.8	15
24	A Genetic Algorithm for Determining Cylinder Pressure in Internal Combustion Engines. Energy & Fuels, 2007, 21, 2600-2607.	5.1	14
25	Combustion Faults Diagnosis in Internal Combustion Engines Using Angular Speed Measurements and Artificial Neural Networks. Energy & Fuels, 2008, 22, 2972-2980.	5.1	14
26	Analysis of the effect of the hydrogen as main fuel on the performance of a modified compression ignition engine with water injection. Energy, 2019, 173, 911-925.	8.8	14
27	Analysis of a new analytical law of heat release rate (HRR) for homogenous charge compression ignition (HCCI) combustion mode versus analytical parameters. Applied Thermal Engineering, 2011, 31, 458-466.	6.0	13
28	Analysis of a diesel generator cylinder failure. Engineering Failure Analysis, 2010, 17, 913-925.	4.0	12
29	Design and Optimization of Neural Networks To Estimate the Chamber Pressure in Internal Combustion Engines by an Indirect Method. Energy & Fuels, 2007, 21, 2627-2636.	5.1	11
30	Simulation of supercritical water oxidation reactor in transitory state: Application to time-dependent processes. Journal of Supercritical Fluids, 2016, 117, 219-229.	3.2	10
31	Analysis of the Start of Combustion of a Diesel Fuel in a HCCI Process through an Integral Chemical Kinetic Model and Experimentation. Energy & Fuels, 2008, 22, 987-995.	5.1	8
32	Combustion Characteristics, Emissions and Heat Release Rate Analysis of a Homogeneous Charge Compression Ignition Engine with Exhaust Gas Recirculation Fuelled with Diesel. Energy & Fuels, 2009, 23, 2396-2404.	5.1	8
33	Fast on-line identification of instantaneous mechanical losses in internal combustion engines. Mechanical Systems and Signal Processing, 2010, 24, 267-280.	8.0	7
34	Failure analysis of an overhead valve train system in urban buses. Engineering Failure Analysis, 2019, 96, 455-467.	4.0	7
35	Development of a Computer Model to Simulate the Injection Process of a Diesel Engine. Energy & Fuels, 2005, 19, 1526-1535.	5.1	6
36	Computer Model to Simulate the Injection Process in a Rotary Injection Pump:Â The Inverse Problem. Energy & Fuels, 2007, 21, 110-120.	5.1	5

#	ARTICLE	IF	CITATIONS
37	Indirect characterisation of indicated power in Stirling engines through brake power measurements. Applied Thermal Engineering, 2016, 100, 961-971.	6.0	5
38	Practical identification of non-linear characteristics of elastomeric couplings in engine assemblies. Mechanical Systems and Signal Processing, 2009, 23, 922-930.	8.0	4
39	Influence of a Combustion Parametric Model on the Cyclic Angular Speed of Internal Combustion Engines. Part I: Setup for Sensitivity Analysis. Energy & Fuels, 2009, 23, 2921-2929.	5.1	4
40	Low power static-heating start-up procedure for supercritical water oxidation plants. Journal of Supercritical Fluids, 2018, 135, 218-224.	3.2	4
41	Predictive Modeling of a Homogeneous Charge Compression Ignition (HCCI) Engine with EGR Fueled with Diesel. Energy & Fuels, 2009, 23, 5383-5393.	5.1	3
42	Influence of a Combustion Parametric Model on the Cyclic Angular Speed of Internal Combustion Engines. Part II: Statistical Sensitivity Assessment Results. Energy & Fuels, 2010, 24, 954-964.	5.1	2
43	Experimental and dynamic system simulation and optimization of a centrifugal pump-coupling-engine system. Part 1: Failure identification. Engineering Failure Analysis, 2011, 18, 1-11.	4.0	2
44	Methodology for the estimation of head inner surface temperature in an air-cooled engine. Applied Thermal Engineering, 2012, 35, 202-211.	6.0	2
45	Experimental and dynamic system simulation and optimization of a centrifugal pump-coupling-engine system. Part 2: System design. Engineering Failure Analysis, 2010, 17, 1551-1559.	4.0	1