

Octavio Armas

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

5,091
citations

30
h-index

70
g-index

97
ext. papers

5,517
ext. citations

6.4
avg, IF

5.97
L-index

#	Paper	IF	Citations
94	Effect of biodiesel fuels on diesel engine emissions. <i>Progress in Energy and Combustion Science</i> , 2008 , 34, 198-223	33.6	1353
93	Emissions from a dieselBioethanol blend in an automotive diesel engine. <i>Fuel</i> , 2008 , 87, 25-31	7.1	257
92	Diagnosis of DI Diesel combustion from in-cylinder pressure signal by estimation of mean thermodynamic properties of the gas. <i>Applied Thermal Engineering</i> , 1999 , 19, 513-529	5.8	214
91	Impact of fuel formulation on the nanostructure and reactivity of diesel soot. <i>Combustion and Flame</i> , 2012 , 159, 3597-3606	5.3	210
90	Diesel emissions from biofuels derived from Spanish potential vegetable oils. <i>Fuel</i> , 2005 , 84, 773-780	7.1	206
89	Characterization of light duty Diesel engine pollutant emissions using water-emulsified fuel. <i>Fuel</i> , 2005 , 84, 1011-1018	7.1	185
88	Stability of dieselBioethanol blends for use in diesel engines. <i>Fuel</i> , 2007 , 86, 1351-1357	7.1	159
87	Influence of measurement errors and estimated parameters on combustion diagnosis. <i>Applied Thermal Engineering</i> , 2006 , 26, 226-236	5.8	135
86	Effect of alternative fuels on exhaust emissions during diesel engine operation with matched combustion phasing. <i>Fuel</i> , 2010 , 89, 438-456	7.1	130
85	Effect of Ethanol on Blending Stability and Diesel Engine Emissions. <i>Energy & Fuels</i> , 2009 , 23, 4343-4354	7.1	120
84	Correlation for the estimation of the density of fatty acid esters fuels and its implications. A proposed Biodiesel Cetane Index. <i>Chemistry and Physics of Lipids</i> , 2010 , 163, 720-7	3.7	102
83	Reduction of diesel smoke opacity from vegetable oil methyl esters during transient operation. <i>Fuel</i> , 2006 , 85, 2427-2438	7.1	101
82	Impact of engine operating modes and combustion phasing on the reactivity of diesel soot. <i>Combustion and Flame</i> , 2013 , 160, 682-691	5.3	99
81	Emissions from different alternative diesel fuels operating with single and split fuel injection. <i>Fuel</i> , 2010 , 89, 423-437	7.1	98
80	Pollutant emissions from engine starting with ethanol and butanol diesel blends. <i>Fuel Processing Technology</i> , 2012 , 100, 63-72	7.2	84
79	Diesel Particle Size Distribution Estimation from Digital Image Analysis. <i>Aerosol Science and Technology</i> , 2003 , 37, 369-381	3.4	73
78	Impact of crude vegetable oils on the oxidation reactivity and nanostructure of diesel particulate matter. <i>Combustion and Flame</i> , 2014 , 161, 2904-2915	5.3	72

77	Sensitivity of diesel engine thermodynamic cycle calculation to measurement errors and estimated parameters. <i>Applied Thermal Engineering</i> , 2000 , 20, 843-861	5.8	67
76	Potential for reducing emissions in a diesel engine by fuelling with conventional biodiesel and Fischer-Tropsch diesel. <i>Fuel</i> , 2010 , 89, 3106-3113	7.1	66
75	Potential for exhaust gas energy recovery in a diesel passenger car under European driving cycle. <i>Applied Energy</i> , 2016 , 174, 201-212	10.7	63
74	Pollutant emissions from New European Driving Cycle with ethanol and butanol diesel blends. <i>Fuel Processing Technology</i> , 2014 , 122, 64-71	7.2	61
73	Diesel Particulate Emissions from Biofuels Derived from Spanish Vegetable Oils 2002 ,		54
72	Thermal analysis of a thermoelectric generator for light-duty diesel engines. <i>Applied Energy</i> , 2018 , 226, 690-702	10.7	52
71	Impact of alternative fuels on performance and pollutant emissions of a light duty engine tested under the new European driving cycle. <i>Applied Energy</i> , 2013 , 107, 183-190	10.7	49
70	Oxidation reactivity and nanostructural characterization of the soot coming from farnesane - A novel diesel fuel derived from sugar cane. <i>Carbon</i> , 2017 , 125, 516-529	10.4	48
69	A thermoelectric generator in exhaust systems of spark-ignition and compression-ignition engines. A comparison with an electric turbo-generator. <i>Applied Energy</i> , 2018 , 229, 80-87	10.7	39
68	NOx emissions from diesel light duty vehicle tested under NEDC and real-world driving conditions. <i>Transportation Research, Part D: Transport and Environment</i> , 2018 , 63, 37-48	6.4	36
67	Performance, combustion timing and emissions from a light duty vehicle at different altitudes fueled with animal fat biodiesel, GTL and diesel fuels. <i>Applied Energy</i> , 2016 , 182, 507-517	10.7	35
66	Evaluation of sooting tendency of different oxygenated and paraffinic fuels blended with diesel fuel. <i>Fuel</i> , 2016 , 184, 536-543	7.1	31
65	Evaluating thermoelectric modules in diesel exhaust systems: potential under urban and extra-urban driving conditions. <i>Journal of Cleaner Production</i> , 2018 , 182, 1070-1079	10.3	30
64	Potential for using a tire pyrolysis liquid-diesel fuel blend in a light duty engine under transient operation. <i>Applied Energy</i> , 2014 , 130, 437-446	10.7	30
63	The determination of the activation energy of diesel and biodiesel fuels and the analysis of engine performance and soot emissions. <i>Fuel Processing Technology</i> , 2018 , 174, 69-77	7.2	29
62	Performance and pollutant emissions from transient operation of a common rail diesel engine fueled with different biodiesel fuels. <i>Fuel</i> , 2016 , 185, 743-762	7.1	29
61	Impact of Animal Fat Biodiesel, GTL, and HVO Fuels on Combustion, Performance, and Pollutant Emissions of a Light-Duty Diesel Vehicle Tested under the NEDC. <i>Journal of Energy Engineering - ASCE</i> , 2015 , 141,	1.7	28
60	Effect of the Degree of Unsaturation of Biodiesel Fuels on NOx and Particulate Emissions. <i>SAE International Journal of Fuels and Lubricants</i> , 2008 , 1, 1150-1158	1.8	28

59	Comparative study of pollutant emissions from engine starting with animal fat biodiesel and GTL fuels. <i>Fuel</i> , 2013 , 113, 560-570	7.1	27
58	Fuel Formulation Effects on Passenger Car Diesel Engine Particulate Emissions and Composition 2000 ,		26
57	Impact of regulated pollutant emissions of Euro 6d-Temp light-duty diesel vehicles under real driving conditions. <i>Journal of Cleaner Production</i> , 2021 , 286, 124927	10.3	26
56	Study of the compression cycle of a reciprocating engine through the polytropic coefficient. <i>Applied Thermal Engineering</i> , 2003 , 23, 313-323	5.8	25
55	Kinetic Modelling of Gaseous Emissions in a Diesel Engine 2000 ,		25
54	Effect of an ethanolBiodieselDiesel blend on a common rail injection system. <i>Fuel Processing Technology</i> , 2011 , 92, 2145-2153	7.2	24
53	Estimation of Opacity Tendency of Ethanoland BiodieselDiesel Blends by Means of the Smoke Point Technique. <i>Energy & Fuels</i> , 2011 , 25, 3283-3288	4.1	23
52	Study of a residential boiler under start-transient conditions using a tire pyrolysis liquid (TPL)/diesel fuel blend. <i>Fuel</i> , 2015 , 158, 744-752	7.1	22
51	A zero-dimensional model to simulate injection rate from first generation common rail diesel injectors under thermodynamic diagnosis. <i>Energy</i> , 2018 , 158, 845-858	7.9	22
50	Effect of the trapped mass and its composition on the heat transfer in the compression cycle of a reciprocating engine. <i>Applied Thermal Engineering</i> , 2005 , 25, 2842-2853	5.8	21
49	On-line thermodynamic diagnosis of diesel combustion process with paraffinic fuels in a vehicle tested under NEDC. <i>Journal of Cleaner Production</i> , 2016 , 138, 94-102	10.3	20
48	Particles emitted during the stops of an urban bus fuelled with ethanolBiodieselDiesel blends. <i>Urban Climate</i> , 2012 , 2, 43-54	6.8	20
47	Uncertainties in the determination of particle size distributions using a mini tunnelSMPS system during Diesel engine testing. <i>Measurement Science and Technology</i> , 2007 , 18, 2121-2130	2	20
46	Accuracy of the European Standard Method to measure the amount of DPM emitted to the atmosphere. <i>Fuel</i> , 2002 , 81, 2053-2060	7.1	20
45	Biodiesel Emissions from a Baseline Engine Operated with Different Injection Systems and Exhaust Gas Recirculation (EGR) Strategies during Transient Sequences. <i>Energy & Fuels</i> , 2009 , 23, 6168-6180	4.1	18
44	Study of intake manifolds of an internal combustion engine: A new geometry based on experimental results and numerical simulations. <i>Thermal Science and Engineering Progress</i> , 2019 , 9, 248-258	3.6	18
43	Developing Computational Fluid Dynamics (CFD) Models to Evaluate Available Energy in Exhaust Systems of Diesel Light-Duty Vehicles. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 590	2.6	17
42	Influence of Mini-tunnel Operating Parameters and Ambient Conditions on Diesel Particulate Measurement and Analysis 1999 ,		17

41	Global energy balance in a diesel engine with a thermoelectric generator. <i>Applied Energy</i> , 2020 , 269, 115139	10.7	17
40	Online Emissions from a Vibrating Roller Using an Ethanol-Diesel Blend during a Railway Construction. <i>Energy & Fuels</i> , 2009 , 23, 2989-2996	4.1	16
39	Alternative method for bulk modulus estimation of Diesel fuels. <i>Fuel</i> , 2016 , 167, 199-207	7.1	15
38	Particle size distributions from a city bus fuelled with ethanol-Biodiesel-Diesel fuel blends. <i>Fuel</i> , 2013 , 111, 393-400	7.1	15
37	Smoke Opacity and NOx Emissions from a Bioethanol-Diesel Blend during Engine Transient Operation 2007 ,		14
36	Scrubbing effect on diesel particulate matter from transesterified waste oils blends. <i>Fuel</i> , 2006 , 85, 923-928		14
35	Effect of the Injection Parameters of a Common Rail Injection System on Diesel Combustion Through Thermodynamic Diagnosis 1999 ,		14
34	Thermodynamic diagnosis of diesel and biodiesel combustion processes during load-increase transient sequences. <i>Applied Energy</i> , 2012 , 97, 558-568	10.7	13
33	Thermal management of thermoelectric generators for waste energy recovery. <i>Applied Thermal Engineering</i> , 2021 , 196, 117291	5.8	13
32	A comparative study of performance and regulated emissions in a medium-duty diesel engine fueled with sugarcane diesel-farnesane and sugarcane biodiesel-LS9. <i>Energy</i> , 2019 , 176, 392-409	7.9	12
31	The influence of ethanol-diesel blend on pollutant emissions from different bus fleets under acceleration transitions. <i>Fuel</i> , 2017 , 209, 322-328	7.1	12
30	Methodology for the analysis of pollutant emissions from a city bus. <i>Measurement Science and Technology</i> , 2012 , 23, 045302	2	12
29	The effect of diesel engine operating conditions on exhaust particle size distributions. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2008 , 222, 1513-1525	1.4	12
28	Impact of Gas To Liquid and diesel fuels on the engine cold start. <i>Fuel</i> , 2017 , 203, 298-307	7.1	10
27	Methodology for measurement of diesel particle size distributions from a city bus working in real traffic conditions. <i>Measurement Science and Technology</i> , 2011 , 22, 105404	2	10
26	Impact of injection strategy and GTL fuels on combustion process and performance under diesel engine start. <i>Fuel</i> , 2017 , 200, 529-544	7.1	9
25	Estimation of volatile organic emission based on diesel particle size distributions. <i>Measurement Science and Technology</i> , 2012 , 23, 105305	2	9
24	Prediction of NOx Emissions and Fuel Consumption of a City Bus under Real Operating Conditions by Means of Biharmonic Maps. <i>Journal of Energy Engineering - ASCE</i> , 2016 , 142, 04016018	1.7	9

23	Pollutant Emissions from Starting a Common Rail Diesel Engine Fueled with Different Biodiesel Fuels. <i>Journal of Energy Engineering - ASCE</i> , 2016 , 142,	1.7	8
22	Emissions of Light Duty Vehicle Tested under Urban and Extraurban Real-World Driving Conditions with Diesel, Animal Fat Biodiesel and GTL fuels 2013 ,		8
21	Effect of an ethanol/diesel blend on a common-rail injection system. <i>International Journal of Engine Research</i> , 2012 , 13, 417-428	2.7	8
20	Genotoxicity and mutagenicity of particulate matter emitted from diesel, gas to liquid, biodiesel, and farnesane fuels: A toxicological risk assessment. <i>Fuel</i> , 2020 , 282, 118763	7.1	8
19	Comparison of real driving emissions from Euro VI buses with diesel and compressed natural gas fuels. <i>Fuel</i> , 2021 , 289, 119836	7.1	8
18	Methodology to simulate normalized testing cycles for engines and vehicles via design of experiments with low number of runs. <i>Energy Conversion and Management</i> , 2018 , 177, 817-832	10.6	8
17	Impact of relative position vehicle-wind blower in a roller test bench under climatic chamber. <i>Applied Thermal Engineering</i> , 2016 , 106, 266-274	5.8	7
16	Effect of Ethanol/Diesel Fuel Blend on Diesel Engine Emissions Produced by Different Bus Fleets. <i>Journal of Energy Engineering - ASCE</i> , 2016 , 142,	1.7	6
15	Thermoelectric Energy Recovery in a Light-Duty Diesel Vehicle under Real-World Driving Conditions at Different Altitudes with Diesel, Biodiesel and GTL Fuels. <i>Energies</i> , 2019 , 12, 1105	3.1	5
14	Estimation of thermal loads in a climatic chamber for vehicle testing. <i>Transportation Research, Part D: Transport and Environment</i> , 2018 , 65, 761-771	6.4	5
13	Control Applied to a Reciprocating Internal Combustion Engine Test Bench under Transient Operation: Impact on Engine Performance and Pollutant Emissions. <i>Energies</i> , 2017 , 10, 1690	3.1	4
12	Electrical Modelling and Mismatch Effects of Thermoelectric Modules on Performance of a Thermoelectric Generator for Energy Recovery in Diesel Exhaust Systems. <i>Energies</i> , 2021 , 14, 3189	3.1	4
11	Nozzle rate of injection estimation from hole to hole momentum flux data with different fossil and renewable fuels. <i>Fuel</i> , 2020 , 279, 118404	7.1	3
10	Diesel Emissions from an Emulsified Fuel During Engine Transient Operation 2008 ,		3
9	Modelling of particle size distributions produced by a Diesel engine fueled with different fossil and renewable fuels under like urban and extra-urban operating conditions. <i>Fuel</i> , 2020 , 263, 116730	7.1	3
8	Effect of the use of a thermoelectric generator on the pumping work of a diesel engine. <i>International Journal of Engine Research</i> , 2021 , 22, 1016-1027	2.7	3
7	Estimation of Diesel Particulate Emissions from Hydrocarbon Emissions and Smoke Opacity 2004 , 487-501		2
6	Simulation of Optimal Driving for Minimization of Fuel Consumption or NOx Emissions in a Diesel Vehicle. <i>Energies</i> , 2021 , 14, 5513	3.1	2

5	Morphological Analysis of Particulate Matter emitted by a Diesel Engine using Digital Image Analysis Algorithms and Scanning Mobility Particle Sizer 2001 ,		1
4	Methodology improvements to simulate performance and emissions of engine transient cycles from stationary operating modes: A case study applied to biofuels. <i>Fuel</i> , 2022 , 312, 122977	7.1	0
3	Pollutant emissions from Euro 6 light duty vehicle tested under steady state and transient operation on a roller test bench with hydrogenated paraffinic and biodiesel fuels. <i>Fuel</i> , 2022 , 323, 124173 ¹	7.1	0
2	Chemical and Morphological Analysis of Particulate Matter from Differently Fuelled Passenger Car Diesel Engine 2002 , 295-316		
1	Impact of alternative and fossil diesel fuels on internal flow of injection nozzle. <i>International Journal of Engine Research</i> ,146808742199652	2.7	