

Juan J Hernandez

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.

74
papers

2,470
citations

27
h-index

48
g-index

78
ext. papers

2,786
ext. citations

5.6
avg, IF

5.35
L-index

#	Paper	IF	Citations
74	Gasification of biomass wastes in an entrained flow gasifier: Effect of the particle size and the residence time. <i>Fuel Processing Technology</i> , 2010 , 91, 681-692	7.2	214
73	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
72	Gasification and co-gasification of biomass wastes: Effect of the biomass origin and the gasifier operating conditions. <i>Fuel Processing Technology</i> , 2008 , 89, 828-837	7.2	193
71	Reduction of diesel smoke opacity from vegetable oil methyl esters during transient operation. <i>Fuel</i> , 2006 , 85, 2427-2438	7.1	101
70	Effect of steam content in the air/steam flow on biomass entrained flow gasification. <i>Fuel Processing Technology</i> , 2012 , 99, 43-55	7.2	100
69	Characterisation of tars from biomass gasification: Effect of the operating conditions. <i>Energy</i> , 2013 , 50, 333-342	7.9	96
68	Co-Gasification of Biomass Wastes and Coal/Tar Blends in an Entrained Flow Gasifier: An Experimental Study. <i>Energy & Fuels</i> , 2010 , 24, 2479-2488	4.1	92
67	Kinetics of devolatilisation of forestry wastes from thermogravimetric analysis. <i>Biomass and Bioenergy</i> , 2004 , 27, 385-391	5.3	83
66	Autoignition of blends of n-butanol and ethanol with diesel or biodiesel fuels in a constant-volume combustion chamber. <i>Energy</i> , 2017 , 118, 613-621	7.9	72
65	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
64	Selection of a diesel fuel surrogate for the prediction of auto-ignition under HCCI engine conditions. <i>Fuel</i> , 2008 , 87, 655-665	7.1	66
63	Dual Fuel Diesel Engine Operation Using H ₂ . Effect on Particulate Emissions. <i>Energy & Fuels</i> , 2005 , 19, 418-425	4.1	65
62	Drivers of sustainable cleaner production and sustainable energy options. <i>Journal of Cleaner Production</i> , 2016 , 138, 1-7	10.3	61
61	An experimental study of the influence of biofuel origin on particle-associated PAH emissions. <i>Atmospheric Environment</i> , 2010 , 44, 930-938	5.3	59
60	Characterisation of residual char from biomass gasification: effect of the gasifier operating conditions. <i>Journal of Cleaner Production</i> , 2016 , 138, 83-93	10.3	49
59	Evaluation of exhaust gas recirculation as a technique for reducing diesel engine NO _x emissions. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2000 , 214, 85-93	1.4	47
58	Effect of oxygenated and paraffinic alternative diesel fuels on soot reactivity and implications on DPF regeneration. <i>Fuel</i> , 2016 , 185, 460-467	7.1	44

57	Carbonyls speciation in a typical European automotive diesel engine using bioethanol/butanol/diesel blends. <i>Fuel</i> , 2012 , 95, 136-145	7.1	43
56	Laminar burning behaviour of biomass gasification-derived producer gas. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 851-862	6.7	40
55	Speciation of the semivolatile hydrocarbon engine emissions from sunflower biodiesel. <i>Fuel</i> , 2008 , 87, 1835-1843	7.1	38
54	Separate effect of H ₂ , CH ₄ and CO on diesel engine performance and emissions under partial diesel fuel replacement. <i>Fuel</i> , 2016 , 165, 173-184	7.1	35
53	Autoignition prediction capability of the Livengood-Wu correlation applied to fuels of commercial interest. <i>International Journal of Engine Research</i> , 2014 , 15, 817-829	2.7	34
52	Experimental investigation on the potential of biogas/ethanol dual-fuel spark-ignition engine for power generation: Combustion, performance and pollutant emission analysis. <i>Applied Energy</i> , 2020 , 261, 114438	10.7	34
51	Estimation of the Laminar Flame Speed of Producer Gas from Biomass Gasification. <i>Energy & Fuels</i> , 2005 , 19, 2172-2178	4.1	33
50	Emission benefits from the use of n-butanol blends in a Euro 6 diesel engine. <i>International Journal of Engine Research</i> , 2018 , 19, 1099-1112	2.7	31
49	Comparison between the kinetics of devolatilisation of forestry and agricultural wastes from the middle-south regions of Spain. <i>Biomass and Bioenergy</i> , 2007 , 31, 13-19	5.3	30
48	Composition and size of diesel particulate emissions from a commercial European engine tested with present and future fuels. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2003 , 217, 907-919	1.4	29
47	Effects of methyl substitution on the auto-ignition of C16 alkanes. <i>Combustion and Flame</i> , 2016 , 164, 259-269	5.3	27
46	Combustion, performance and emission analysis of a natural gas-hydrous ethanol dual-fuel spark ignition engine with internal exhaust gas recirculation. <i>Energy Conversion and Management</i> , 2019 , 195, 1187-1198	10.6	26
45	Ignition delay time correlations for a diesel fuel with application to engine combustion modelling. <i>International Journal of Engine Research</i> , 2010 , 11, 199-206	2.7	26
44	Determination of PAHs in diesel particulate matter using thermal extraction and solid phase micro-extraction. <i>Atmospheric Environment</i> , 2009 , 43, 655-662	5.3	26
43	Kinetic Modelling of Gaseous Emissions in a Diesel Engine 2000 ,		25
42	Development of a homogeneous charge pre-chamber torch ignition system for an SI engine fuelled with hydrous ethanol. <i>Applied Thermal Engineering</i> , 2019 , 152, 261-274	5.8	25
41	Effect of partial replacement of diesel or biodiesel with gas from biomass gasification in a diesel engine. <i>Energy</i> , 2015 , 89, 148-157	7.9	23
40	A reduced chemical kinetic mechanism of a diesel fuel surrogate (n-heptane/toluene) for HCCI combustion modelling. <i>Fuel</i> , 2014 , 133, 283-291	7.1	22

39	Reduction of kinetic mechanisms for fuel oxidation through genetic algorithms. <i>Mathematical and Computer Modelling</i> , 2010 , 52, 1185-1193		20
38	Prediction of the Autoignition Delay Time of Producer Gas from Biomass Gasification. <i>Energy & Fuels</i> , 2006 , 20, 532-539	4.1	19
37	Strategies for active diesel particulate filter regeneration based on late injection and exhaust recirculation with different fuels. <i>International Journal of Engine Research</i> , 2014 , 15, 209-221	2.7	18
36	The optical investigation of hydrogen enrichment effects on combustion and soot emission characteristics of CNG/diesel dual-fuel engine. <i>Fuel</i> , 2020 , 280, 118639	7.1	17
35	Biomass quality control in power plants: Technical and economical implications. <i>Renewable Energy</i> , 2018 , 115, 908-916	8.1	16
34	Selection of Blends of Diesel Fuel and Advanced Biofuels Based on Their Physical and Thermochemical Properties. <i>Energies</i> , 2019 , 12, 2034	3.1	15
33	Autoignition reactivity of blends of diesel and biodiesel fuels with butanol isomers. <i>Journal of the Energy Institute</i> , 2019 , 92, 1223-1231	5.7	15
32	Flame stability and OH and CH radical emissions from mixtures of natural gas with biomass gasification gas. <i>Applied Thermal Engineering</i> , 2013 , 55, 133-139	5.8	15
31	Role of the Chemical Kinetics on Modeling NO _x Emissions in Diesel Engines. <i>Energy & Fuels</i> , 2008 , 22, 262-272	4.1	15
30	Mass and energy analysis of a 60 kW th updraft gasifier using large size biomass. <i>Fuel</i> , 2017 , 187, 356-366	7.1	14
29	Scrubbing effect on diesel particulate matter from transesterified waste oils blends. <i>Fuel</i> , 2006 , 85, 923-928		14
28	Effect of the Injection Parameters of a Common Rail Injection System on Diesel Combustion Through Thermodynamic Diagnosis 1999 ,		14
27	Combustion-Related Properties of Poplar, Willow and Black Locust to be used as Fuels in Power Plants. <i>Energies</i> , 2017 , 10, 997	3.1	13
26	Viability of LPG use in low-power outboard engines for reduction in consumption and pollutant emissions. <i>International Journal of Energy Research</i> , 2003 , 27, 467-480	4.5	11
25	Thermochemical and physical evaluation of poplar genotypes as short rotation forestry crops for energy use. <i>Energy Conversion and Management</i> , 2016 , 129, 131-139	10.6	10
24	A combustion kinetic model for estimating diesel engine NO _x emissions. <i>Combustion Theory and Modelling</i> , 2006 , 10, 639-657	1.5	9
23	Thermochemical Behaviour of Producer Gas from Gasification of Lignocellulosic Biomass in SI Engines 2001 ,		8
22	Effect of advanced biofuels on WLTC emissions of a Euro 6 diesel vehicle with SCR under different climatic conditions. <i>International Journal of Engine Research</i> , 146808742110012	2.7	8

21	Performance and regulated gaseous emissions of a Euro 6 diesel vehicle with Lean NOx Trap at different ambient conditions: Sensitivity to the type of fuel. <i>Energy Conversion and Management</i> , 2020 , 219, 113023	10.6	7
20	Recirculation of char from biomass gasification: Effects on gasifier performance and end-char properties. <i>Renewable Energy</i> , 2020 , 147, 806-813	8.1	7
19	Analysis of labour market needs for engineers with enhanced knowledge in renewable energy in some European and Latin-American Countries. <i>Energy Procedia</i> , 2019 , 158, 1135-1140	2.3	5
18	When diesel NOx aftertreatment systems meet advanced biofuels. <i>Results in Engineering</i> , 2019 , 2, 1000093	2.3	5
17	Modelling of the auto-ignition angle in diesel HCCI engines through D-optimal design. <i>Fuel</i> , 2010 , 89, 2561-2568	7.1	5
16	Effect of the Addition of Biomass Gasification Gas on the PM Emission of a Diesel Engine. <i>SAE International Journal of Engines</i> , 2014 , 8, 14-19	2.4	3
15	An easy correlation to determine soluble and insoluble fractions in diesel particulate matter?. <i>Fuel</i> , 2003 , 82, 2173-2178	7.1	3
14	Vehicle Emissions from a Glycerol-Derived Biofuel under Cold and Warm Conditions. <i>Energy & Fuels</i> , 2020 , 34, 6020-6029	4.1	3
13	Experimental assessment of power generation using a compression ignition engine fueled by farnesane (A renewable diesel from sugarcane). <i>Energy</i> , 2021 , 233, 121187	7.9	3
12	Velocidad de Combustión Laminar del Gas de Gasificación Calculada usando Diferentes Mecanismos de Reacción. <i>Informacion Tecnologica (discontinued)</i> , 2004 , 15,	0.9	2
11	Fuel economy, NOx emissions and lean NOx trap efficiency: Lessons from current driving cycles. <i>International Journal of Engine Research</i> , 146808742110050	2.7	2
10	Autoignition of diesel-like fuels under dual operation with H2. <i>Advances in Mechanical Engineering</i> , 2019 , 11, 168781401985678	1.2	1
9	A Novel Group-based Correlation for the Ignition Delay Time of Paraffinic-type Fuels. <i>Combustion Science and Technology</i> , 2019 , 1-13	1.5	1
8	Evaluation of ashes from agro-industrial biomass as a component for producing construction materials. <i>Journal of Cleaner Production</i> , 2021 , 318, 128517	10.3	1
7	Improving the usage of vegetable oils in generator sets used for off-grid power generation by hydrogen addition. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 35479-35494	6.7	1
6	Numerical study of wall-impinging ignition at different wall distances for cold start of heavy-duty diesel engine. <i>Applied Thermal Engineering</i> , 2022 , 212, 118535	5.8	1
5	Autoignition of ethanol-diesel blends: Is it worth dehydrating ethanol?. <i>Fuel</i> , 2022 , 317, 123523	7.1	0
4	Low temperature autoignition of diesel fuel under dual operation with hydrogen and hydrogen-carriers. <i>Energy Conversion and Management</i> , 2022 , 258, 115516	10.6	0

3	Effects of CO ₂ on the laminar burning velocities of toluene reference fuel (TRF) with increasing initial temperatures and pressures. <i>Fuel</i> , 2022 , 318, 123508	7.1	o
2	Are Cold Filter Plugging Point and Cloud Point reliable enough to prevent cold-start operability problems in vehicles using biodiesel blends?. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2020 , 234, 2305-2311	1.4	
1	Effect of Exhausted Olive Cake Contamination on Fly and Bottom Ash in Power Plants. <i>Waste and Biomass Valorization</i> , 1	3.2	