JosÃ© RodrÃ-guez FernÃ¡ndez

List of Publications by Year
in descending order

58 papers	3,999 citations	201674 27 h-index	161849 54 g-index
59 all docs	59 docs citations	59 times ranked	3217 citing authors

#	Article	IF	Citations
1	Fuel economy, NO_x emissions and lean NO_x trap efficiency: Lessons from current driving cycles. International Journal of Engine Research, 2022, 23, 1047-1060.	2.3	6
2	Surface tension of diesel-alcohol blends: Selection among fundamental and empirical models. Fluid Phase Equilibria, 2022, 555, 113363.	2.5	9
3	Study and characterization of the instabilities generated in expanding spherical flames of hydrogen/methane/air mixtures. International Journal of Hydrogen Energy, 2022, 47, 22616-22632.	7.1	7
4	Effect of advanced biofuels on WLTC emissions of a Euro 6 diesel vehicle with SCR under different climatic conditions. International Journal of Engine Research, 2021, 22, 3433-3446.	2.3	19
5	WLTC and real-driving emissions for an autochthonous biofuel from wine-industry waste. Scientific Reports, 2021, 11, 7528.	3.3	5
6	Relaxation Dynamics of Ethanol and N-Butanol in Diesel Fuel Blends from Terahertz Spectroscopy. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 772-792.	2.2	0
7	Improving Fuel Economy and Engine Performance through Gasoline Fuel Octane Rating. Energies, 2020, 13, 3499.	3.1	16
8	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. Energy Conversion and Management, 2020, 219, 113023.	9.2	16
9	Soot reactivity analysis and implications on diesel filter regeneration. Progress in Energy and Combustion Science, 2020, 78, 100833.	31.2	91
10	Determination of optical and dielectric properties of blends of alcohol with diesel and biodiesel fuels from terahertz spectroscopy. Fuel, 2020, 274, 117877.	6.4	17
11	Impact of oxyfunctionalized turpentine on emissions from a Euro 6 diesel engine. Energy, 2020, 201, 117645.	8.8	12
12	Vehicle Emissions from a Glycerol-Derived Biofuel under Cold and Warm Conditions. Energy & Fuels, 2020, 34, 6020-6029.	5.1	8
13	Fatty acid ethyl esters (FAEEs) obtained from grapeseed oil: A fully renewable biofuel. Renewable Energy, 2019, 132, 278-283.	8.9	45
14	Lubricity of paraffinic fuels additivated with conventional and non-conventional methyl esters. Advances in Mechanical Engineering, 2019, 11, 168781401987707.	1.6	3
15	When diesel NOx aftertreatment systems meet advanced biofuels. Results in Engineering, 2019, 2, 100009.	5.1	8
16	Selection of Blends of Diesel Fuel and Advanced Biofuels Based on Their Physical and Thermochemical Properties. Energies, 2019, 12, 2034.	3.1	33
17	Cold flow and filterability properties of n-butanol and ethanol blends with diesel and biodiesel fuels. Fuel, 2018, 224, 552-559.	6.4	67
18	Gasoline direct injection engine soot oxidation: Fundamentals and determination of kinetic parameters. Combustion and Flame, 2018, 190, 177-187.	5.2	29

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19	Interaction of diesel engine soot with NO2 and O2 at diesel exhaust conditions. Effect of fuel and engine operation mode. Fuel, 2018, 212, 455-461.	6.4	26
20	Fatty acid methyl and ethyl esters obtained from rare seeds from Tunisia: Ammi visnaga, Citrullus colocynthis, Datura stramonium, Ecballium elaterium, and Silybum marianum. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 93-99.	2.3	9
21	Fatty acid methyl esters (FAME) from oleaginous seeds grown in arid lands. Part II: Ibicella lutea, Onopordum nervosum, Peganum harmala, Smyrnium olusatrum and Solanum elaeagnifolium. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 1434-1441.	2.3	3
22	Emission benefits from the use of n-butanol blends in a Euro 6 diesel engine. International Journal of Engine Research, 2018, 19, 1099-1112.	2.3	39
23	Regeneration of diesel particulate filters: Effect of renewable fuels. Renewable Energy, 2017, 104, 30-39.	8.9	75
24	Modeling viscosity of butanol and ethanol blends with diesel and biodiesel fuels. Fuel, 2017, 199, 332-338.	6.4	124
25	Chemical characterization of diesel and hydrotreated vegetable oil (HVO) soot after reactive gas probing using diffuse reflectance FTIR spectroscopy (DRIFTS). Environmental Science and Pollution Research, 2017, 24, 7534-7543.	5.3	8
26	Effect of oxygenated and paraffinic alternative diesel fuels on soot reactivity and implications on DPF regeneration. Fuel, 2016, 185, 460-467.	6.4	64
27	Biofuels derived from Turkish industry wastesâ€"a study of performance and emissions in a diesel engine. Environmental Progress and Sustainable Energy, 2016, 35, 847-852.	2.3	7
28	Molecular Characterization of the Gasâ€"Particle Interface of Soot Sampled from a Diesel Engine Using a Titration Method. Environmental Science & Technology, 2016, 50, 2946-2955.	10.0	15
29	Multi-Technique Analysis of Soot Reactivity from Conventional and Paraffinic Diesel Fuels. Flow, Turbulence and Combustion, 2016, 96, 327-341.	2.6	32
30	Estimation of Cold Flow Performance and Oxidation Stability of Fatty Acid Ethyl Esters from Lipids Obtained from Escherichia coli. Energy & Fuels, 2015, 29, 2493-2502.	5.1	20
31	Properties of fatty acid glycerol formal ester (FAGE) for use as a component in blends for diesel engines. Biomass and Bioenergy, 2015, 76, 130-140.	5.7	27
32	Effect of a glycerol-derived advanced biofuel â€"FAGE (fatty acid formal glycerol ester)â€" on the emissions of a diesel engine tested under the New European Driving Cycle. Energy, 2015, 93, 568-579.	8.8	42
33	Molecular interactions in blends of alcohols with diesel fuels: Effect on stability and distillation. Fuel, 2015, 139, 171-179.	6.4	20
34	Performance and emissions of an automotive diesel engine using a tire pyrolysis liquid blend. Fuel, 2014, 115, 490-499.	6.4	88
35	Blending scenarios for soybean oil derived biofuels with conventional diesel. Biomass and Bioenergy, 2013, 49, 74-85.	5.7	14
36	Effect of soot accumulation in a diesel particle filter on the combustion process and gaseous emissions. Energy, 2012, 47, 543-552.	8.8	59

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37	Effect of the test temperature and anti-oxidant addition on the oxidation stability of commercial biodiesel fuels. Fuel, 2012, 93, 391-396.	6.4	49
38	Characterization of the Diesel Soot Oxidation Process through an Optimized Thermogravimetric Method. Energy & Fuels, 2011, 25, 2039-2048.	5.1	102
39	Combustion characteristics and emissions of Fischerâ€“Tropsch diesel fuels in IC engines. Progress in Energy and Combustion Science, 2011, 37, 503-523.	31.2	229
40	Understanding the Ag/Al2O3 hydrocarbon-SCR catalyst deactivation through TG/DT analyses of different configurations. Applied Catalysis B: Environmental, 2010, 97, 373-380.	20.2	8
41	Improving the low temperature NOx reduction activity over a Ag-Al2O3 catalyst. Chemical Engineering Journal, 2010, 158, 402-410.	12.7	25
42	Determination of enthalpy of formation of methyl and ethyl esters of fatty acids. Chemistry and Physics of Lipids, 2010, 163, 172-181.	3.2	33
43	Correlation for the estimation of the density of fatty acid esters fuels and its implications. A proposed Biodiesel Cetane Index. Chemistry and Physics of Lipids, 2010, 163, 720-727.	3.2	111
44	Investigation of the Deactivation of a NO_x-Reducing Hydrocarbon-Selective Catalytic Reduction (HC-SCR) Catalyst by Thermogravimetric Analysis: Effect of the Fuel and Prototype Catalyst. Energy & Fuels, 2010, 24, 992-1000.	5.1	15
45	Raising the fuel heating value and recovering exhaust heat by on-board oxidative reforming of bioethanol. Energy and Environmental Science, 2010, 3, 780.	30.8	57
46	Performance, combustion and emissions of a diesel engine operated with reformed EGR. Comparison of diesel and GTL fuelling. Fuel, 2009, 88, 1031-1041.	6.4	92
47	Combining GTL fuel, reformed EGR and HC-SCR aftertreatment system to reduce diesel NOx emissions. A statistical approach. International Journal of Hydrogen Energy, 2009, 34, 2789-2799.	7.1	48
48	Correlation for the estimation of the cetane number of biodiesel fuels and implications on the iodine number. Energy Policy, 2009, 37, 4337-4344.	8.8	123
49	Biodiesel from Low-Grade Animal Fats: Diesel Engine Performance and Emissions. Energy & Fuels, 2009, 23, 121-129.	5.1	52
50	Diesel particulate emissions from used cooking oil biodiesel. Bioresource Technology, 2008, 99, 731-740.	9.6	234
51	Effect of biodiesel fuels on diesel engine emissions. Progress in Energy and Combustion Science, 2008, 34, 198-223.	31.2	1,578
52	Thermogravimetric analysis of diesel particulate matter. Measurement Science and Technology, 2007, 18, 650-658.	2.6	55
53	Neural networks estimation of diesel particulate matter composition from transesterified waste oils blends. Fuel, 2005, 84, 2080-2085.	6.4	29
54	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

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55	Effect of the Degree of Unsaturation of Biodiesel Fuels on NOx and Particulate Emissions. SAE International Journal of Fuels and Lubricants, 0, 1, 1150-1158.	0.2	33
56	Performance, Emissions and Exhaust-Gas Reforming of an Emulsified Fuel: A Comparative Study with Conventional Diesel Fuel. , 0, , .		13
57	Diesel Engine Performance and Emissions when First Generation Meets Next Generation Biodiesel. , 0, , .		10
58	Engine Performance and Emissions from Dual Fuelled Engine with In-Cylinder Injected Diesel Fuels and In-Port Injected Bioethanol. , 0, , .		15