

# Jos Rodrguez Fernndez

## List of Publications by Year in Descending Order

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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.

57 papers	3,274 citations	25 h-index	57 g-index
59 ext. papers	3,614 ext. citations	7.8 avg, IF	5.6 L-index

#	Paper	IF	Citations
57	Surface tension of diesel-alcohol blends: Selection among fundamental and empirical models. <i>Fluid Phase Equilibria</i> , <b>2022</b> , 555, 113363	2.5	1
56	WLTC and real-driving emissions for an autochthonous biofuel from wine-industry waste. <i>Scientific Reports</i> , <b>2021</b> , 11, 7528	4.9	3
55	Relaxation Dynamics of Ethanol and N-Butanol in Diesel Fuel Blends from Terahertz Spectroscopy. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2021</b> , 42, 772-792	2.2	
54	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> , <b>2020</b> , 219, 113023	10.6	7
53	Soot reactivity analysis and implications on diesel filter regeneration. <i>Progress in Energy and Combustion Science</i> , <b>2020</b> , 78, 100833	33.6	52
52	Determination of optical and dielectric properties of blends of alcohol with diesel and biodiesel fuels from terahertz spectroscopy. <i>Fuel</i> , <b>2020</b> , 274, 117877	7.1	7
51	Improving Fuel Economy and Engine Performance through Gasoline Fuel Octane Rating. <i>Energies</i> , <b>2020</b> , 13, 3499	3.1	9
50	Impact of oxyfunctionalized turpentine on emissions from a Euro 6 diesel engine. <i>Energy</i> , <b>2020</b> , 201, 117645	7.9	8
49	Vehicle Emissions from a Glycerol-Derived Biofuel under Cold and Warm Conditions. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 6020-6029	4.1	3
48	Lubricity of paraffinic fuels additivated with conventional and non-conventional methyl esters. <i>Advances in Mechanical Engineering</i> , <b>2019</b> , 11, 168781401987707	1.2	2
47	When diesel NOx aftertreatment systems meet advanced biofuels. <i>Results in Engineering</i> , <b>2019</b> , 2, 1000093	9.3	5
46	Selection of Blends of Diesel Fuel and Advanced Biofuels Based on Their Physical and Thermochemical Properties. <i>Energies</i> , <b>2019</b> , 12, 2034	3.1	15
45	Fatty acid ethyl esters (FAEEs) obtained from grapeseed oil: A fully renewable biofuel. <i>Renewable Energy</i> , <b>2019</b> , 132, 278-283	8.1	36
44	Cold flow and filterability properties of n-butanol and ethanol blends with diesel and biodiesel fuels. <i>Fuel</i> , <b>2018</b> , 224, 552-559	7.1	54
43	Gasoline direct injection engine soot oxidation: Fundamentals and determination of kinetic parameters. <i>Combustion and Flame</i> , <b>2018</b> , 190, 177-187	5.3	22
42	Interaction of diesel engine soot with NO <sub>2</sub> and O <sub>2</sub> at diesel exhaust conditions. Effect of fuel and engine operation mode. <i>Fuel</i> , <b>2018</b> , 212, 455-461	7.1	19
41	Fatty acid methyl esters (FAME) from oleaginous seeds grown in arid lands. Part II: <i>Ibicella lutea</i> , <i>Onopordum nervosum</i> , <i>Peganum harmala</i> , <i>Smyrniolus olusatrum</i> and <i>Solanum elaeagnifolium</i> . <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2018</b> , 40, 1434-1441	1.6	2

40	Emission benefits from the use of n-butanol blends in a Euro 6 diesel engine. <i>International Journal of Engine Research</i> , <b>2018</b> , 19, 1099-1112	2.7	31
39	Fatty acid methyl and ethyl esters obtained from rare seeds from Tunisia: Ammi visnaga, Citrullus colocynthis, Datura stramonium, Ecballium elaterium, and Silybum marianum. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2018</b> , 40, 93-99	1.6	5
38	Regeneration of diesel particulate filters: Effect of renewable fuels. <i>Renewable Energy</i> , <b>2017</b> , 104, 30-398.1		52
37	Modeling viscosity of butanol and ethanol blends with diesel and biodiesel fuels. <i>Fuel</i> , <b>2017</b> , 199, 332-338.1		94
36	Chemical characterization of diesel and hydrotreated vegetable oil (HVO) soot after reactive gas probing using diffuse reflectance FTIR spectroscopy (DRIFTS). <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 7534-7543	5.1	6
35	Effect of oxygenated and paraffinic alternative diesel fuels on soot reactivity and implications on DPF regeneration. <i>Fuel</i> , <b>2016</b> , 185, 460-467	7.1	44
34	Biofuels derived from Turkish industry wastes—study of performance and emissions in a diesel engine. <i>Environmental Progress and Sustainable Energy</i> , <b>2016</b> , 35, 847-852	2.5	2
33	Molecular Characterization of the Gas-Particle Interface of Soot Sampled from a Diesel Engine Using a Titration Method. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 2946-55	10.3	11
32	Multi-Technique Analysis of Soot Reactivity from Conventional and Paraffinic Diesel Fuels. <i>Flow, Turbulence and Combustion</i> , <b>2016</b> , 96, 327-341	2.5	26
31	Estimation of Cold Flow Performance and Oxidation Stability of Fatty Acid Ethyl Esters from Lipids Obtained from Escherichia coli. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 2493-2502	4.1	19
30	Properties of fatty acid glycerol formal ester (FAGE) for use as a component in blends for diesel engines. <i>Biomass and Bioenergy</i> , <b>2015</b> , 76, 130-140	5.3	21
29	Effect of a glycerol-derived advanced biofuel FAGE (fatty acid formal glycerol ester) on the emissions of a diesel engine tested under the New European Driving Cycle. <i>Energy</i> , <b>2015</b> , 93, 568-579	7.9	37
28	Molecular interactions in blends of alcohols with diesel fuels: Effect on stability and distillation. <i>Fuel</i> , <b>2015</b> , 139, 171-179	7.1	15
27	Performance and emissions of an automotive diesel engine using a tire pyrolysis liquid blend. <i>Fuel</i> , <b>2014</b> , 115, 490-499	7.1	68
26	Blending scenarios for soybean oil derived biofuels with conventional diesel. <i>Biomass and Bioenergy</i> , <b>2013</b> , 49, 74-85	5.3	11
25	Effect of soot accumulation in a diesel particle filter on the combustion process and gaseous emissions. <i>Energy</i> , <b>2012</b> , 47, 543-552	7.9	52
24	Effect of the test temperature and anti-oxidant addition on the oxidation stability of commercial biodiesel fuels. <i>Fuel</i> , <b>2012</b> , 93, 391-396	7.1	46
23	Characterization of the Diesel Soot Oxidation Process through an Optimized Thermogravimetric Method. <i>Energy &amp; Fuels</i> , <b>2011</b> , 25, 2039-2048	4.1	82

22	Combustion characteristics and emissions of Fischer-Tropsch diesel fuels in IC engines. <i>Progress in Energy and Combustion Science</i> , <b>2011</b> , 37, 503-523	33.6	186
21	Investigation of the Deactivation of a NO <sub>x</sub> -Reducing Hydrocarbon-Selective Catalytic Reduction (HC-SCR) Catalyst by Thermogravimetric Analysis: Effect of the Fuel and Prototype Catalyst. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 992-1000	4.1	14
20	Raising the fuel heating value and recovering exhaust heat by on-board oxidative reforming of bioethanol. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 780	35.4	47
19	Understanding the Ag/Al <sub>2</sub> O <sub>3</sub> hydrocarbon-SCR catalyst deactivation through TG/DT analyses of different configurations. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 97, 373-380	21.8	8
18	Improving the low temperature NO <sub>x</sub> reduction activity over a Ag-Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Chemical Engineering Journal</i> , <b>2010</b> , 158, 402-410	14.7	19
17	Determination of enthalpy of formation of methyl and ethyl esters of fatty acids. <i>Chemistry and Physics of Lipids</i> , <b>2010</b> , 163, 172-81	3.7	30
16	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> , <b>2010</b> , 163, 720-7	3.7	102
15	Performance, Emissions and Exhaust-Gas Reforming of an Emulsified Fuel: A Comparative Study with Conventional Diesel Fuel <b>2009</b> ,		9
14	Diesel Engine Performance and Emissions when First Generation Meets Next Generation Biodiesel <b>2009</b> ,		8
13	Engine Performance and Emissions from Dual Fuelled Engine with In-Cylinder Injected Diesel Fuels and In-Port Injected Bioethanol <b>2009</b> ,		15
12	Performance, combustion and emissions of a diesel engine operated with reformed EGR. Comparison of diesel and GTL fuelling. <i>Fuel</i> , <b>2009</b> , 88, 1031-1041	7.1	83
11	Combining GTL fuel, reformed EGR and HC-SCR aftertreatment system to reduce diesel NO <sub>x</sub> emissions. A statistical approach. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 2789-2799	6.7	42
10	Correlation for the estimation of the cetane number of biodiesel fuels and implications on the iodine number. <i>Energy Policy</i> , <b>2009</b> , 37, 4337-4344	7.2	106
9	Biodiesel from Low-Grade Animal Fats: Diesel Engine Performance and Emissions. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 121-129	4.1	45
8	Effect of the Degree of Unsaturation of Biodiesel Fuels on NO <sub>x</sub> and Particulate Emissions. <i>SAE International Journal of Fuels and Lubricants</i> , <b>2008</b> , 1, 1150-1158	1.8	28
7	Diesel particulate emissions from used cooking oil biodiesel. <i>Bioresource Technology</i> , <b>2008</b> , 99, 731-40	11	201
6	Effect of biodiesel fuels on diesel engine emissions. <i>Progress in Energy and Combustion Science</i> , <b>2008</b> , 34, 198-223	33.6	1353
5	Thermogravimetric analysis of diesel particulate matter. <i>Measurement Science and Technology</i> , <b>2007</b> , 18, 650-658	2	52

4	Neural networks estimation of diesel particulate matter composition from transesterified waste oils blends. <i>Fuel</i> , <b>2005</b> , 84, 2080-2085	7.1	24
3	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> , <b>2005</b> , 25, 2842-2853	5.8	21
2	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
1	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