

# M Pilar Dorado

## List of Publications by Year in descending order

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79  
papers

4,988  
citations

109321

35  
h-index

91884

69  
g-index

81  
all docs

81  
docs citations

81  
times ranked

4718  
citing authors

#	ARTICLE	IF	CITATIONS
1	Compatibility studies between an indirect injection diesel injector and biodiesel with different composition: Stationary tests. <i>Fuel</i> , 2022, 307, 121788.	6.4	6
2	Biorefinery concept for the industrial valorization of tomato processing by-products. , 2022, , 371-420.		3
3	Optimization of ultrasound-assisted liquefaction of solid digestate to produce bio-oil: Energy study and characterization. <i>Fuel</i> , 2022, 313, 123020.	6.4	5
4	Cetane index prediction based on biodiesel distillation curve. <i>Fuel</i> , 2022, 321, 124063.	6.4	8
5	Descriptive and inferential statistics as an exhaust emission comparative tool between different engine operating conditions and fuels. Application to highly oxidized biodiesel blended with primary alcohols. <i>Fuel</i> , 2022, 324, 124453.	6.4	3
6	Biodiesel production using microbial lipids derived from food waste discarded by catering services. <i>Bioresource Technology</i> , 2021, 323, 124597.	9.6	42
7	Bibliometric Studies on Emissions from Diesel Engines Running on Alcohol/Diesel Fuel Blends. A Case Study about Noise Emissions. <i>Processes</i> , 2021, 9, 623.	2.8	6
8	Influence of 1-butanol and 1-pentanol addition to diesel fuel on exhaust and noise emissions under stationary and transient conditions. <i>Fuel</i> , 2021, 301, 121046.	6.4	5
9	Universal Kinetic Model to Simulate Two-Step Biodiesel Production from Vegetable Oil. <i>Energies</i> , 2020, 13, 2994.	3.1	1
10	Food waste from restaurant sector " Characterization for biorefinery approach. <i>Bioresource Technology</i> , 2020, 301, 122779.	9.6	44
11	Recycling of kebab restoration grease for bioenergy production through acoustic cavitation. <i>Renewable Energy</i> , 2020, 155, 1147-1155.	8.9	4
12	Auxiliary energy-assisted biodiesel production data from solid food waste oil. <i>Data in Brief</i> , 2020, 30, 105456.	1.0	0
13	Biodiesel production from microbial oil provided by oleaginous yeasts from olive oil mill wastewater growing on industrial glycerol. <i>Industrial Crops and Products</i> , 2019, 139, 111535.	5.2	39
14	Optimization of solid food waste oil biodiesel by ultrasound-assisted transesterification. <i>Fuel</i> , 2019, 255, 115817.	6.4	55
15	Mango stone properties as biofuel and its potential for reducing CO2 emissions. <i>Journal of Cleaner Production</i> , 2018, 190, 53-62.	9.3	42
16	Computational models to predict noise emissions of a diesel engine fueled with saturated and monounsaturated fatty acid methyl esters. <i>Energy</i> , 2018, 144, 110-119.	8.8	7
17	Valorization of food waste from restaurants by transesterification of the lipid fraction. <i>Fuel</i> , 2018, 215, 492-498.	6.4	42
18	Castor oil enhanced effect on fuel ethanol-diesel fuel blend properties. <i>Applied Energy</i> , 2018, 224, 409-416.	10.1	18

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19	Valorization of food waste based on its composition through the concept of biorefinery. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2018, 14, 67-79.	5.9	91
20	Optimization of the Transesterification of Waste Cooking Oil with Mg-Al Hydrotalcite Using Response Surface Methodology. <i>Energies</i> , 2018, 11, 302.	3.1	20
21	Ternary blends of diesel fuel oxygenated with ethanol and castor oil for diesel engines. <i>Energy Procedia</i> , 2017, 142, 855-860.	1.8	12
22	Influence of ethanol/diesel fuel and propanol/diesel fuel blends over exhaust and noise emissions. <i>Energy Procedia</i> , 2017, 142, 849-854.	1.8	24
23	Multiple response optimization to reduce exhaust emissions and fuel consumption of a diesel engine fueled with olive pomace oil methyl ester/diesel fuel blends. <i>Energy</i> , 2016, 117, 398-404.	8.8	16
24	Evaluation of <i>Sinapis alba</i> as feedstock for biodiesel production in Mediterranean climate. <i>Fuel</i> , 2016, 184, 656-664.	6.4	21
25	Virtual laboratory on biomass for energy generation. <i>Journal of Cleaner Production</i> , 2016, 112, 3842-3851.	9.3	24
26	Synthesis of biodiesel from castor oil: Silent versus sonicated methylation and energy studies. <i>Energy Conversion and Management</i> , 2015, 96, 561-567.	9.2	31
27	Biorefining of by-product streams from sunflower-based biodiesel production plants for integrated synthesis of microbial oil and value-added co-products. <i>Bioresource Technology</i> , 2015, 190, 57-65.	9.6	76
28	Ultrasound-assisted biodiesel production from <i>Camelina sativa</i> oil. <i>Bioresource Technology</i> , 2015, 185, 116-124.	9.6	24
29	New Frontiers in the Production of Biodiesel: Biodiesel Derived from Macro and Microorganisms. <i>Lecture Notes in Energy</i> , 2014, , 205-225.	0.3	0
30	Biorefinery development through utilization of biodiesel industry by-products as sole fermentation feedstock for 1,3-propanediol production. <i>Bioresource Technology</i> , 2014, 159, 167-175.	9.6	42
31	Latest trends in feedstocks for biodiesel production. <i>Biofuels, Bioproducts and Biorefining</i> , 2014, 8, 126-143.	3.7	138
32	Influence of vegetable oil fatty acid composition on ultrasound-assisted synthesis of biodiesel. <i>Fuel</i> , 2014, 125, 183-191.	6.4	35
33	The potential for agro-industrial waste utilization using oleaginous yeast for the production of biodiesel. <i>Fuel</i> , 2014, 123, 33-42.	6.4	150
34	Biodiesel synthesis from saturated and unsaturated oils assisted by the combination of ultrasound, agitation and heating. <i>Fuel</i> , 2014, 131, 6-16.	6.4	25
35	Effect of the use of olive pomace oil biodiesel/diesel fuel blends in a compression ignition engine: Preliminary exergy analysis. <i>Energy Conversion and Management</i> , 2014, 85, 227-233.	9.2	73
36	Evaluation of sound quality in a tractor driver cabin based on the effect of biodiesel fatty acid composition. <i>Fuel</i> , 2014, 118, 194-201.	6.4	14

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37	Influence of nitrogen fertilization on physical and chemical properties of fatty acid methyl esters from Brassica napus oil. Fuel, 2013, 111, 865-871.	6.4	11
38	Influence of fatty acid unsaturation degree over exhaust and noise emissions through biodiesel combustion. Fuel, 2013, 109, 248-255.	6.4	25
39	Performance tests of a diesel engine fueled with pentanol/diesel fuel blends. Fuel, 2013, 107, 866-872.	6.4	181
40	Evaluation of by-products from the biodiesel industry as fermentation feedstock for poly(3-hydroxybutyrate-co-3-hydroxyvalerate) production by Cupriavidus necator. Bioresource Technology, 2013, 130, 16-22.	9.6	95
41	The effect of biodiesel fatty acid composition on combustion and diesel engine exhaust emissions. Fuel, 2013, 104, 170-182.	6.4	169
42	Biorefinery Virtual Lab-Integrating E-learning Techniques and Theoretical Learning. Advances in Intelligent Systems and Computing, 2013, , 321-330.	0.6	1
43	Feedstocks for advanced biodiesel production. , 2012, , 69-90.		12
44	Noise prediction of a diesel engine fueled with olive pomace oil methyl ester blended with diesel fuel. Fuel, 2012, 98, 280-287.	6.4	10
45	Near infrared reflectance spectroscopy and multivariate analysis to monitor reaction products during biodiesel production. Fuel, 2012, 92, 354-359.	6.4	33
46	Air and noise pollution of a diesel engine fueled with olive pomace oil methyl ester and petrodiesel blends. Fuel, 2012, 95, 615-621.	6.4	48
47	Biodiesel from saturated and monounsaturated fatty acid methyl esters and their influence over noise and air pollution. Fuel, 2012, 97, 751-756.	6.4	42
48	A comparison of performance of higher alcohols/diesel fuel blends in a diesel engine. Applied Energy, 2012, 95, 267-275.	10.1	295
49	Characterization of solar flat plate collectors. Renewable and Sustainable Energy Reviews, 2012, 16, 1709-1720.	16.4	58
50	Vegetable-based feedstocks for biofuels production. , 2011, , 61-94.		5
51	Influence of vegetable oils fatty acid composition on reaction temperature and glycerides conversion to biodiesel during transesterification. Bioresource Technology, 2011, 102, 1044-1050.	9.6	44
52	Influence of vegetable oils fatty-acid composition on biodiesel optimization. Bioresource Technology, 2011, 102, 1059-1065.	9.6	46
53	Multiple response optimization of vegetable oils fatty acid composition to improve biodiesel physical properties. Bioresource Technology, 2011, 102, 7280-7288.	9.6	91
54	Physical and chemical properties of ethanolâ€“diesel fuel blends. Fuel, 2011, 90, 795-802.	6.4	163

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55	Experimental investigation on injection characteristics of bioethanolâ€“diesel fuel and bioethanolâ€“biodiesel blends. <i>Fuel</i> , 2011, 90, 1968-1979.	6.4	38
56	Visible and NIR Spectroscopy to assess biodiesel quality: Determination of alcohol and glycerol traces. <i>Fuel</i> , 2011, 90, 2321-2325.	6.4	40
57	Physical and Chemical Properties of Ethanolâ”Biodiesel Blends for Diesel Engines. <i>Energy &amp; Fuels</i> , 2010, 24, 2002-2009.	5.1	56
58	Economic viability of the use of olive tree pruning as fuel for heating systems in public institutions in South Spain. <i>Fuel</i> , 2010, 89, 1386-1391.	6.4	24
59	Response surface modeling to predict biodiesel yield in a multi-feedstock biodiesel production plant. <i>Bioresource Technology</i> , 2010, 101, 9587-9593.	9.6	32
60	Biofuels for Transport: Prospects and Challenges. , 2010, , 171-210.		4
61	Stability, Lubricity, Viscosity, and Cold-Flow Properties of Alcoholâ”Diesel Blends. <i>Energy &amp; Fuels</i> , 2010, 24, 4497-4502.	5.1	327
62	Influence of a Combustion Parametric Model on the Cyclic Angular Speed of Internal Combustion Engines. Part II: Statistical Sensitivity Assessment Results. <i>Energy &amp; Fuels</i> , 2010, 24, 954-964.	5.1	2
63	Cereal-based biorefinery development: Utilisation of wheat milling by-products for the production of succinic acid. <i>Journal of Biotechnology</i> , 2009, 143, 51-59.	3.8	114
64	Flow injection analysis-based methodology for automatic on-line monitoring and quality control for biodiesel production. <i>Bioresource Technology</i> , 2009, 100, 421-427.	9.6	23
65	The Ideal Vegetable Oil-based Biodiesel Composition: A Review of Social, Economical and Technical Implications. <i>Energy &amp; Fuels</i> , 2009, 23, 2325-2341.	5.1	410
66	Influence of a Combustion Parametric Model on the Cyclic Angular Speed of Internal Combustion Engines. Part I: Setup for Sensitivity Analysis. <i>Energy &amp; Fuels</i> , 2009, 23, 2921-2929.	5.1	4
67	Combustion Faults Diagnosis in Internal Combustion Engines Using Angular Speed Measurements and Artificial Neural Networks. <i>Energy &amp; Fuels</i> , 2008, 22, 2972-2980.	5.1	14
68	Computer Model to Simulate the Injection Process in a Rotary Injection Pump:Â The Inverse Problem. <i>Energy &amp; Fuels</i> , 2007, 21, 110-120.	5.1	5
69	A Neural Network Approach to Simulate Biodiesel Production from Waste Olive Oil. <i>Energy &amp; Fuels</i> , 2006, 20, 399-402.	5.1	62
70	An approach to the economics of two vegetable oil-based biofuels in Spain. <i>Renewable Energy</i> , 2006, 31, 1231-1237.	8.9	107
71	Development of a Computer Model to Simulate the Injection Process of a Diesel Engine. <i>Energy &amp; Fuels</i> , 2005, 19, 1526-1535.	5.1	6
72	Life Cycle Assessment and External Environmental Cost Analysis of Heat Pumps. <i>Environmental Engineering Science</i> , 2004, 21, 591-605.	1.6	21

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73	Kinetic Parameters Affecting the Alkali-Catalyzed Transesterification Process of Used Olive Oil. Energy & Fuels, 2004, 18, 1457-1462.	5.1	141
74	Optimization of Alkali-Catalyzed Transesterification of Brassica Carinata Oil for Biodiesel Production. Energy & Fuels, 2004, 18, 77-83.	5.1	261
75	Exhaust emissions from a Diesel engine fueled with transesterified waste olive oil. Fuel, 2003, 82, 1311-1315.	6.4	564
76	Testing Waste Olive Oil Methyl Ester as a Fuel in a Diesel Engine. Energy & Fuels, 2003, 17, 1560-1565.	5.1	116
77	THE EFFECT OF A WASTE VEGETABLE OIL BLEND WITH DIESEL FUEL ON ENGINE PERFORMANCE. Transactions of the American Society of Agricultural Engineers, 2002, 45, .	0.9	32
78	AN ALKALI-CATALYZED TRANSESTERIFICATION PROCESS FOR HIGH FREE FATTY ACID WASTE OILS. Transactions of the American Society of Agricultural Engineers, 2002, 45, .	0.9	106
79	Comparative study of various renewable fuels blends to run a diesel power plant. Renewable Energy and Power Quality Journal, 0, 1, 53-57.	0.2	2