

# Paul Hellier

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,369  
citations

304743  
22  
h-index

345221  
36  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1509  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of solvent selection and extraction temperature on yield and composition of lipids extracted from spent coffee grounds. <i>Industrial Crops and Products</i> , 2018, 119, 49-56.	5.2	102
2	Combined remediation and lipid production using <i>Chlorella sorokiniana</i> grown on wastewater and exhaust gases. <i>Bioresource Technology</i> , 2014, 151, 12-18.	9.6	100
3	The influence of straight vegetable oil fatty acid composition on compression ignition combustion and emissions. <i>Fuel</i> , 2015, 143, 131-143.	6.4	91
4	Optimization of oil extraction from waste "Date pits" for biodiesel production. <i>Energy Conversion and Management</i> , 2016, 117, 264-272.	9.2	79
5	Effect of hydrogen-diesel fuel co-combustion on exhaust emissions with verification using an in-cylinder gas sampling technique. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 15088-15102.	7.1	73
6	An overview of the effects of fuel molecular structure on the combustion and emissions characteristics of compression ignition engines. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2018, 232, 90-105.	1.9	55
7	Hydrogen-diesel fuel co-combustion strategies in light duty and heavy duty CI engines. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 9046-9058.	7.1	54
8	Effect of Solvent Extraction Parameters on the Recovery of Oil From Spent Coffee Grounds for Biofuel Production. <i>Waste and Biomass Valorization</i> , 2019, 10, 253-264.	3.4	49
9	Combustion and emissions characterization of terpenes with a view to their biological production in cyanobacteria. <i>Fuel</i> , 2013, 111, 670-688.	6.4	48
10	The effect of varying EGR and intake air boost on hydrogen-diesel co-combustion in CI engines. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 6369-6383.	7.1	48
11	Combustion and emissions characteristics of toluene/n-heptane and 1-octene/n-octane binary mixtures in a direct injection compression ignition engine. <i>Combustion and Flame</i> , 2013, 160, 2141-2158.	5.2	46
12	Combustion and exhaust emission characteristics, and in-cylinder gas composition, of hydrogen enriched biogas mixtures in a diesel engine. <i>Energy</i> , 2017, 124, 397-412.	8.8	43
13	The Influence of Fatty Acid Ester Alcohol Moiety Molecular Structure on Diesel Combustion and Emissions. <i>Energy &amp; Fuels</i> , 2012, 26, 1912-1927.	5.1	41
14	An experimental and modelling study of dual fuel aqueous ammonia and diesel combustion in a single cylinder compression ignition engine. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35495-35510.	7.1	40
15	Ignition control of homogeneous-charge compression ignition (HCCI) combustion through adaptation of the fuel molecular structure by reaction with ozone. <i>Fuel</i> , 2010, 89, 3178-3184.	6.4	37
16	Effects of unsaturation of C2 and C3 hydrocarbons on the formation of PAHs and on the toxicity of soot particles. <i>Fuel</i> , 2017, 194, 306-320.	6.4	32
17	Initiation mechanisms of enhanced pyrolysis and oxidation of JP-10 (exo-tetrahydrodicyclopentadiene) on functionalized graphene sheets: Insights from ReaxFF molecular dynamics simulations. <i>Fuel</i> , 2019, 254, 115643.	6.4	32
18	Impact of increasing methyl branches in aromatic hydrocarbons on diesel engine combustion and emissions. <i>Fuel</i> , 2018, 216, 579-588.	6.4	31

#	ARTICLE	IF	CITATIONS
19	Fundamental Study on Mechanisms of Thermal Decomposition and Oxidation of Aluminum Hydride. Journal of Physical Chemistry C, 2019, 123, 24436-24445.	3.1	31
20	Algal biomass and diesel emulsions: An alternative approach for utilizing the energy content of microalgal biomass in diesel engines. Applied Energy, 2016, 172, 80-95.	10.1	29
21	The importance of double bond position and cisâ€“trans isomerisation in diesel combustion and emissions. Fuel, 2013, 105, 477-489.	6.4	26
22	The Impact of Saturated and Unsaturated Fuel Molecules on Diesel Combustion and Exhaust Emissions. SAE International Journal of Fuels and Lubricants, 0, 5, 106-122.	0.2	25
23	An investigation into the conversion of specific carbon atoms in oleic acid and methyl oleate to particulate matter in a diesel engine and tube reactor. Fuel, 2015, 153, 604-611.	6.4	22
24	Influence of carbon number of C1â€“C7 hydrocarbons on PAH formation. Fuel, 2018, 228, 140-151.	6.4	21
25	Influence of Combustion Characteristics and Fuel Composition on Exhaust PAHs in a Compression Ignition Engine. Energies, 2019, 12, 2575.	3.1	20
26	The influence of biodiesel composition on compression ignition combustion and emissions. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2015, 229, 714-726.	1.4	19
27	Ethanol oxidation with high water content: A reactive molecular dynamics simulation study. Fuel, 2019, 235, 515-521.	6.4	19
28	Influence of Carbonate Ester Molecular Structure on Compression Ignition Combustion and Emissions. Energy & Fuels, 2013, 27, 5222-5245.	5.1	16
29	The impact of ignition delay and further fuel properties on combustion and emissions in a compression ignition engine. Fuel, 2020, 262, 116155.	6.4	15
30	Combustion and emissions characteristics of date pit methyl ester in a single cylinder direct injection diesel engine. Fuel, 2019, 243, 162-171.	6.4	13
31	Integrated strategies for water removal and lipid extraction from coffee industry residues. Sustainable Energy Technologies and Assessments, 2018, 29, 26-35.	2.7	12
32	Molecular Structure of Photosynthetic Microbial Biofuels for Improved Engine Combustion and Emissions Characteristics. Frontiers in Bioengineering and Biotechnology, 2015, 3, 49.	4.1	11
33	Transesterification of high-acidity spent coffee ground oil and subsequent combustion and emissions characteristics in a compression-ignition engine. Fuel, 2019, 247, 257-271.	6.4	10
34	Impact on performance and emissions of the aspiration of algal biomass suspensions in the intake air of a direct injection diesel engine. Energy Conversion and Management, 2020, 205, 112347.	9.2	10
35	A systematic study into the effect of lignocellulose-derived biofuels on the combustion and emissions of fossil diesel blends in a compression ignition engine. Fuel, 2022, 313, 122663.	6.4	10
36	Comparative analysis of H2-diesel co-combustion in a single cylinder engine and a chassis dynamometer vehicle. International Journal of Hydrogen Energy, 2019, 44, 1239-1252.	7.1	9

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37	Quantification of the Fraction of Particulate Matter Derived from a Range of <sup>13</sup> C-Labeled Fuels Blended into Heptane, Studied in a Diesel Engine and Tube Reactor. <i>Energy &amp; Fuels</i> , 2016, 30, 7678-7690.	5.1	7
38	Measurement of soot mass and PAHs during the pyrolysis of C2C4 alcohols at high temperatures. <i>Combustion and Flame</i> , 2022, 236, 111803.	5.2	7
39	Development of a Fast-Acting, Time-Resolved Gas Sampling System for Combustion and Fuels Analysis. <i>SAE International Journal of Engines</i> , 0, 9, 1102-1116.	0.4	6
40	Influence of unsaturation of hydrocarbons on the characteristics and carcinogenicity of soot particles. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 151, 104900.	5.5	6
41	1-hexene autoignition control by prior reaction with ozone. <i>Fuel Processing Technology</i> , 2016, 145, 90-95.	7.2	5
42	Polycyclic aromatic hydrocarbon and soot emissions in a diesel engine and from a tube reactor. <i>Journal of King Saud University, Engineering Sciences</i> , 2020, , .	2.0	5
43	Re-assessing the toxicity of particles from biodiesel combustion: A quantitative analysis of in vitro studies. <i>Atmospheric Environment</i> , 2021, 261, 118570.	4.1	4
44	Investigating the Combustion and Emissions Characteristics of Biomass-Derived Platform Fuels as Gasoline Extenders in a Single Cylinder Spark-Ignition Engine. , 0, , .		3
45	FACTORS AFFECTING THE EFFICIENCY OF PRESSURIZED SOLVENT EXTRACTION OF OIL FROM SPENT COFFEE GROUNDS. <i>Detritus</i> , 2019, , .	0.9	3
46	Effects of Exhaust Gas Hydrogen Addition and Oxygenated Fuel Blends on the Light-Off Performance of a Three-Way Catalyst. , 0, , .		2
47	Advanced Engine Flows and Combustion. <i>Journal of Combustion</i> , 2017, 2017, 1-3.	1.0	1
48	Demonstrating Clean Burning Future Fuels at a Public Engagement Event. <i>Journal of Chemical Education</i> , 2018, 95, 605-610.	2.3	1
49	Engine Testing of Dissolved Sodium Borohydride for Diesel Combustion CO2 Scrubbing. , 2014, , .		0
50	Effect of equalising ignition delay on combustion and soot emission characteristics of model fuel blends. <i>Journal of Central South University</i> , 2022, 29, 89-101.	3.0	0