Nicos Ladommatos

List of Publications by Year
in descending order

56 papers	1,839 citations	236612 25 h-index	276539 41 g-index
56 all docs	56 docs citations	56 times ranked	1858 citing authors

#	Article	IF	Citations
1	Measurement of soot mass and PAHs during the pyrolysis of C2C4 alcohols at high temperatures. Combustion and Flame, 2022, 236, 111803.	2.8	7
2	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.	3.4	10
3	Effect of equalising ignition delay on combustion and soot emission characteristics of model fuel blends. Journal of Central South University, 2022, 29, 89-101.	1.2	0
4	Drag coefficients of air rifle pellets with wide range of geometries. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 5365-5384.	1.1	1
5	Re-assessing the toxicity of particles from biodiesel combustion: A quantitative analysis of in vitro studies. Atmospheric Environment, 2021, 261, 118570.	1.9	4
6	Opening the black box: Soil microcosm experiments reveal soot black carbon short-term oxidation and influence on soil organic carbon mineralisation. Science of the Total Environment, 2021, 801, 149659.	3.9	0
7	In-Cylinder Polycyclic Aromatic Hydrocarbons Sampled during Diesel Engine Combustion. Environmental Science & Technology, 2021, 55, 571-580.	4.6	11
8	The impact of ignition delay and further fuel properties on combustion and emissions in a compression ignition engine. Fuel, 2020, 262, 116155.	3.4	15
9	Influence of unsaturation of hydrocarbons on the characteristics and carcinogenicity of soot particles. Journal of Analytical and Applied Pyrolysis, 2020, 151, 104900.	2.6	6
10	Influence of Combustion Characteristics and Fuel Composition on Exhaust PAHs in a Compression Ignition Engine. Energies, 2019, 12, 2575.	1.6	20
11	Combustion and emissions characteristics of date pit methyl ester in a single cylinder direct injection diesel engine. Fuel, 2019, 243, 162-171.	3.4	13
12	Transesterification of high-acidity spent coffee ground oil and subsequent combustion and emissions characteristics in a compression-ignition engine. Fuel, 2019, 247, 257-271.	3.4	10
13	Influence of air rifle pellet geometryon aerodynamic drag. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2019, , 175433711983110.	0.4	2
14	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.	3.8	9
15	Effect of Solvent Extraction Parameters on the Recovery of Oil From Spent Coffee Grounds for Biofuel Production. Waste and Biomass Valorization, 2019, 10, 253-264.	1.8	49
16	FACTORS AFFECTING THE EFFICIENCY OF PRESSURIZED SOLVENT EXTRACTION OF OIL FROM SPENT COFFEE GROUNDS. Detritus, 2019, , .	0.4	3
17	Influence of solvent selection and extraction temperature on yield and composition of lipids extracted from spent coffee grounds. Industrial Crops and Products, 2018, 119, 49-56.	2.5	102
18	Hydrogen-diesel fuel co-combustion strategies in light duty and heavy duty CI engines. International Journal of Hydrogen Energy, 2018, 43, 9046-9058.	3.8	54

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19	Impact of increasing methyl branches in aromatic hydrocarbons on diesel engine combustion and emissions. Fuel, 2018, 216, 579-588.	3.4	31
20	Influence of carbon number of C1â€“C7 hydrocarbons on PAH formation. Fuel, 2018, 228, 140-151.	3.4	21
21	An overview of the effects of fuel molecular structure on the combustion and emissions characteristics of compression ignition engines. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2018, 232, 90-105.	1.1	55
22	Integrated strategies for water removal and lipid extraction from coffee industry residues. Sustainable Energy Technologies and Assessments, 2018, 29, 26-35.	1.7	12
23	Influence of combusting methane-hydrogen mixtures on compressionâ€“ignition engine exhaust emissions and in-cylinder gas composition. International Journal of Hydrogen Energy, 2017, 42, 2381-2396.	3.8	45
24	Combustion and exhaust emission characteristics, and in-cylinder gas composition, of hydrogen enriched biogas mixtures in a diesel engine. Energy, 2017, 124, 397-412.	4.5	43
25	Isotopic Tracers for Combustion Research. Combustion Science and Technology, 2017, 189, 660-682.	1.2	5
26	Effects of unsaturation of C2 and C3 hydrocarbons on the formation of PAHs and on the toxicity of soot particles. Fuel, 2017, 194, 306-320.	3.4	32
27	The effect of varying EGR and intake air boost on hydrogen-diesel co-combustion in CI engines. International Journal of Hydrogen Energy, 2017, 42, 6369-6383.	3.8	48
28	Effects of Oxygen Content of Fuels on Combustion and Emissions of Diesel Engines. Energies, 2016, 9, 28.	1.6	56
29	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.	5.1	29
30	Quantification of the Fraction of Particulate Matter Derived from a Range of13C-Labeled Fuels Blended into Heptane, Studied in a Diesel Engine and Tube Reactor. Energy & Fuels, 2016, 30, 7678-7690.	2.5	7
31	Compression ignition and pollutant emissions of large alkylbenzenes. Fuel, 2016, 172, 200-208.	3.4	10
32	1-hexene autoignition control by prior reaction with ozone. Fuel Processing Technology, 2016, 145, 90-95.	3.7	5
33	Molecular Structure of Photosynthetic Microbial Biofuels for Improved Engine Combustion and Emissions Characteristics. Frontiers in Bioengineering and Biotechnology, 2015, 3, 49.	2.0	11
34	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.	3.4	22
35	The influence of various oxygenated functional groups in carbonyl and ether compounds on compression ignition and exhaust gas emissions. Fuel, 2015, 159, 697-711.	3.4	25
36	An Experimental Study on Effects of Fuel Oxygenates on Diesel Engine Combustion. Energy Procedia, 2015, 66, 17-20.	1.8	10

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37	Systematic study of the effect of the hydroxyl functional group in alcohol molecules on compression ignition and exhaust gas emissions. Fuel, 2015, 153, 650-663.	3.4	58
38	Compression Ignition and Exhaust Gas Emissions of Fuel Molecules Which Can Be Produced from Lignocellulosic Biomass: Levulinates, Valeric Esters, and Ketones. Energy & Fuels, 2015, 29, 5875-5884.	2.5	28
39	The influence of straight vegetable oil fatty acid composition on compression ignition combustion and emissions. Fuel, 2015, 143, 131-143.	3.4	91
40	Effect of hydrogen-diesel fuel co-combustion on exhaust emissions with verification using an inâ€“cylinder gas sampling technique. International Journal of Hydrogen Energy, 2014, 39, 15088-15102.	3.8	73
41	Conversion of oxygenated and hydrocarbon molecules to particulate matter using stable isotopes as tracers. Combustion and Flame, 2014, 161, 2966-2974.	2.8	21
42	Influence of Carbonate Ester Molecular Structure on Compression Ignition Combustion and Emissions. Energy & Fuels, 2013, 27, 5222-5245.	2.5	16
43	Combustion and emissions characteristics of toluene/n-heptane and 1-octene/n-octane binary mixtures in a direct injection compression ignition engine. Combustion and Flame, 2013, 160, 2141-2158.	2.8	46
44	Combustion and emissions characterization of terpenes with a view to their biological production in cyanobacteria. Fuel, 2013, 111, 670-688.	3.4	48
45	The importance of double bond position and cisâ€“trans isomerisation in diesel combustion and emissions. Fuel, 2013, 105, 477-489.	3.4	26
46	The Influence of Fatty Acid Ester Alcohol Moiety Molecular Structure on Diesel Combustion and Emissions. Energy & Fuels, 2012, 26, 1912-1927.	2.5	41
47	Ignition control of homogeneous-charge compression ignition (HCCI) combustion through adaptation of the fuel molecular structure by reaction with ozone. Fuel, 2010, 89, 3178-3184.	3.4	37
48	The influence of molecular structure of fatty acid monoalkyl esters on diesel combustion. Combustion and Flame, 2009, 156, 1396-1412.	2.8	211
49	Effect of Biofuels on Nanoparticle Emissions from Spark- and Compression-ignited Single-cylinder Engines with Same Exhaust Displacement Volume. Energy & Fuels, 2009, 23, 4363-4369.	2.5	23
50	Diffusion- and Homogeneous-Charge Combustion of Volatile Ethers in a Compression Ignition Engine. Energy & Fuels, 2009, 23, 5865-5878.	2.5	3
51	Soot generation of diesel fuels with substantial amounts of oxygen-bearing compounds added. Fuel, 2007, 86, 345-352.	3.4	31
52	CHARACTERISTICS OF HOMOGENEOUS CHARGE COMPRESSION IGNITION (HCCI) COMBUSTION AND EMISSIONS OF n-HEPTANE. Combustion Science and Technology, 2005, 177, 2113-2150.	1.2	41
53	The effect of fuel cetane improver on diesel pollutant emissions. Fuel, 1996, 75, 8-14.	3.4	118
54	Some effects of molecular structure of single hydrocarbons on sooting tendency. Fuel, 1996, 75, 114-124.	3.4	93

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55	Equations for predicting the cetane number of diesel fuels from their physical properties. Fuel, 1995, 74, 1083-1093.	3.4	45
56	Development of a Fast-Acting, Time-Resolved Gas Sampling System for Combustion and Fuels Analysis. SAE International Journal of Engines, 0, 9, 1102-1116.	0.4	6