Christine MounaÃ¯m-rousselle

List of Publications by Year
in descending order

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76 papers	3,714 citations	172457 29 h-index	138484 58 g-index
78 all docs	78 docs citations	78 times ranked	2257 citing authors

#	ARTICLE	IF	CITATIONS
1	An experimental and kinetic modeling study of n-butanol combustion. Combustion and Flame, 2009, 156, 852-864.	5.2	279
2	Experimental study on ammonia/hydrogen/air combustion in spark ignition engine conditions. Fuel, 2020, 269, 117448.	6.4	238
3	Experimental determination of laminar burning velocity for butanol and ethanol iso-octane blends. Fuel, 2011, 90, 1-6.	6.4	225
4	An experimental and modeling study of ammonia with enriched oxygen content and ammonia/hydrogen laminar flame speed at elevated pressure and temperature. Proceedings of the Combustion Institute, 2021, 38, 2163-2174.	3.9	210
5	Evaluation of Butanolâ€“Gasoline Blends in a Port Fuel-injection, Spark-Ignition Engine. Oil and Gas Science and Technology, 2010, 65, 345-351.	1.4	205
6	Nonlinear effects of stretch on the flame front propagation. Combustion and Flame, 2010, 157, 1825-1832.	5.2	203
7	Experimental investigation on laminar burning velocities of ammonia/hydrogen/air mixtures at elevated temperatures. Fuel, 2020, 263, 116653.	6.4	202
8	Modeling laser-induced incandescence of soot: a summary and comparison of LII models. Applied Physics B: Lasers and Optics, 2007, 87, 503-521.	2.2	197
9	Measurement of laminar burning speeds and Markstein lengths using a novel methodology. Combustion and Flame, 2009, 156, 1735-1743.	5.2	140
10	Effect of Dilution by Nitrogen and/or Carbon Dioxide on Methane and Iso-Octane Air Flames. Combustion Science and Technology, 2009, 181, 813-827.	2.3	121
11	Experimental determination of laminar burning velocity for butanol/iso-octane and ethanol/iso-octane blends for different initial pressures. Fuel, 2013, 106, 310-317.	6.4	89
12	Experimental and numerical analysis of nitric oxide effect on the ignition of iso-octane in a single cylinder HCCI engine. Combustion and Flame, 2013, 160, 1476-1483.	5.2	86
13	Comparison of regulated and non-regulated pollutants with iso-octane/butanol and iso-octane/ethanol blends in a port-fuel injection Spark-Ignition engine. Fuel, 2012, 94, 251-261.	6.4	85
14	Effects of hydrogen addition and nitrogen dilution on the laminar flame characteristics of premixed methaneâ€“air flames. International Journal of Hydrogen Energy, 2009, 34, 8329-8338.	7.1	80
15	Influence of physical fuel properties on the injection rate in a Diesel injector. Fuel, 2012, 96, 153-160.	6.4	80
16	Experimental investigation on ammonia combustion behavior in a spark-ignition engine by means of laminar and turbulent expanding flames. Proceedings of the Combustion Institute, 2021, 38, 5859-5868.	3.9	73
17	Experimental and Detailed Kinetic Modeling Study of Ethyl Pentanoate (Ethyl Valerate) Oxidation in a Jet Stirred Reactor and Laminar Burning Velocities in a Spherical Combustion Chamber. Energy & Fuels, 2012, 26, 4735-4748.	5.1	55
18	Ammonia as Fuel for Low-Carbon Spark-Ignition Engines of Tomorrow's Passenger Cars. Frontiers in Mechanical Engineering, 2020, 6, .	1.8	54

#	Article	IF	Citations
19	Experimental estimate of the laminar burning velocity of iso-octane in oxygen-enriched and CO2-diluted air. Combustion and Flame, 2011, 158, 2375-2383.	5.2	50
20	Operating Limits for Ammonia Fuel Spark-Ignition Engine. Energies, 2021, 14, 4141.	3.1	48
21	Soot volume fractions and primary particle size estimate by means of the simultaneous two-color-time-resolved and 2D laser-induced incandescence. Applied Physics B: Lasers and Optics, 2006, 83, 413-421.	2.2	47
22	INFLUENCE OF FUEL PROPERTIES ON THE DIESEL INJECTION PROCESS IN NONVAPORIZING CONDITIONS. Atomization and Sprays, 2012, 22, 461-492.	0.8	47
23	Combustion Characteristics of Tricomponent Fuel Blends of Ethyl Acetate, Ethyl Propionate, and Ethyl Butyrate in Homogeneous Charge Compression Ignition (HCCI). Energy & Fuels, 2011, 25, 1497-1503.	5.1	43
24	Laminar Burning Velocities of C₄â€“C₇ Ethyl Esters in a Spherical Combustion Chamber: Experimental and Detailed Kinetic Modeling. Energy & Fuels, 2012, 26, 6669-6677.	5.1	43
25	Experimental Characterization of Ethyl Acetate, Ethyl Propionate, and Ethyl Butanoate in a Homogeneous Charge Compression Ignition Engine. Energy & Fuels, 2011, 25, 998-1003.	5.1	41
26	Droplet Sizing by Mie Scattering Interferometry in a Spark Ignition Engine. Particle and Particle Systems Characterization, 1999, 16, 160-168.	2.3	40
27	Fuel performances in Spark-Ignition (SI) engines: Impact of flame stretch. Combustion and Flame, 2016, 166, 98-112.	5.2	36
28	Spectroscopic Measurements of Low-Temperature Heat Release for Homogeneous Combustion Compression Ignition (HCCI) n-Heptane/Alcohol Mixture Combustion. Energy & Fuels, 2010, 24, 5404-5409.	5.1	35
29	Comparison of Combustion Characteristics of Magnesium and Aluminum Powders. Combustion Science and Technology, 2016, 188, 1857-1877.	2.3	35
30	Characterization of thermodiffusive and hydrodynamic mechanisms on the cellular instability of syngas fuel blended with CH4 or CO2. Combustion and Flame, 2018, 193, 481-490.	5.2	33
31	Flame wall interaction: effect of stretch. Experimental Thermal and Fluid Science, 2003, 27, 431-437.	2.7	29
32	Laminar premixed flame characteristics of hydrogen blended iso-octaneâ€“airâ€“nitrogen mixtures. International Journal of Hydrogen Energy, 2011, 36, 985-991.	7.1	27
33	Combustion and Emissions Characteristics of Valeric Biofuels in a Compression Ignition Engine. Journal of Energy Engineering - ASCE, 2014, 140, .	1.9	27
34	First Study on Ammonia Spray Characteristics with a Current GDI Engine Injector. Fuels, 2021, 2, 253-271.	2.7	27
35	Isolating the effects of reactivity stratification in reactivity-controlled compression ignition with iso-octane and n-heptane on a light-duty multi-cylinder engine. International Journal of Engine Research, 2018, 19, 907-926.	2.3	26
36	Strain effects on the structure of counterflowing turbulent premixed flames. Proceedings of the Combustion Institute, 1994, 25, 1199-1205.	0.3	23

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37	Performance of ammonia fuel in a spark assisted compression Ignition engine. International Journal of Engine Research, 2022, 23, 781-792.	2.3	23
38	Screening Method for Fuels in Homogeneous Charge Compression Ignition Engines: Application to Valeric Biofuels. Energy & Fuels, 2017, 31, 607-614.	5.1	22
39	Fractal approach to the evaluation of burning rates in the vicinity of the piston in a spark-ignition engine. Combustion and Flame, 2005, 143, 323-332.	5.2	21
40	Pinus pinea emissions and combustion characteristics of limonene potentially involved in accelerating forest fires. International Journal of Thermal Sciences, 2012, 57, 92-97.	4.9	21
41	Experimental Investigation of the Initial Stages of Flame Propagation in a Spark-Ignition Engine: Effects of Fuel, Hydrogen Addition and Nitrogen Dilution. SAE International Journal of Engines, 2010, 3, 1-19.	0.4	20
42	Experimental determination of emission and laminar burning speeds of Î±-pinene. Combustion and Flame, 2012, 159, 1385-1392.	5.2	20
43	MIE and flame velocity of partially oxidised aluminium dust. Journal of Loss Prevention in the Process Industries, 2012, 25, 460-466.	3.3	20
44	An experimental study on turbulent premixed expanding flames using simultaneously Schlieren and tomography techniques. Experimental Thermal and Fluid Science, 2018, 95, 11-17.	2.7	19
45	Engine Performances and Emissions of Second-Generation Biofuels in Spark Ignition Engines: The Case of Methyl and Ethyl Valerates. , 0, , .		14
46	Impact of Fuel Properties and Flame Stretch on the Turbulent Flame Speed in Spark-Ignition Engines. , 0, , .		14
47	0D modeling aspects of flame stretch in spark ignition engines and comparison with experimental results. Applied Energy, 2016, 179, 401-412.	10.1	14
48	Experimental study and calculations of nitric oxide absorption in the Î³(0,0) and Î³(1,0) bands for strong temperature conditions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 90, 275-289.	2.3	13
49	Effects of hydrogen addition under lean and diluted conditions on combustion characteristics and emissions in a spark-ignition engine. International Journal of Engine Research, 2011, 12, 466-483.	2.3	13
50	Analysis of Flame and OH* Natural Emissions of n-Heptane Combustion in a Homogeneous Charge Compression Ignition (HCCI) Engine: Effect of Burnt Gas Dilution. Energy & Fuels, 2009, 23, 1406-1411.	5.1	12
51	Flame Speeds of Î±-Pinene/Air and Limonene/Air Mixtures Involved in Accelerating Forest Fires. Combustion Science and Technology, 2012, 184, 1397-1411.	2.3	12
52	Combustion Characteristics ofp-Cymene Possibly Involved in Accelerating Forest Fires. Combustion Science and Technology, 2013, 185, 1295-1305.	2.3	12
53	DISCHARGE COEFFICIENTS FOR A DIESEL INJECTOR DURING COLD STARTING CONDITIONS. Small Group Research, 2009, 19, 621-631.	2.7	12
54	Exhaust gas recirculation stratification to control diesel homogeneous charge compression ignition combustion. International Journal of Engine Research, 2012, 13, 429-447.	2.3	10

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55	Influence of O₂-enriched intake air with CO₂ dilution on the combustion process of an optically accessible spark-ignition engine. International Journal of Engine Research, 2013, 14, 34-44.	2.3	10
56	Calibration strategy of diesel-fuel spray atomization models using a design of experiment method. International Journal of Engine Research, 2016, 17, 713-731.	2.3	10
57	Butanol and gasoline-like blend combustion characteristics for injection conditions of gasoline compression ignition combustion mode. Fuel, 2019, 258, 116115.	6.4	10
58	Ammonia as Fuel for Transportation to Mitigate Zero Carbon Impact. Energy, Environment, and Sustainability, 2022, , 257-279.	1.0	10
59	Determination of Laminar Burning Speeds and Markstein Lengths ofp-Cymene/Air Mixtures Using Three Models. Combustion Science and Technology, 2014, 186, 490-503.	2.3	9
60	Application of jet propellant-8 to premixed charge ignition combustion in a single-cylinder diesel engine. International Journal of Engine Research, 2015, 16, 92-103.	2.3	9
61	Towards HCCI Control by Ozone Seeding. , 2013, , .		8
62	Droplet diameter and the interference fringes between reflected and refracted light. Journal Physics D: Applied Physics, 1998, 31, L59-L62.	2.8	7
63	ESTIMATE MEASUREMENT OF SOOT DIAMETER AND VOLUME FRACTION INSIDE THE BOWL OF A DIRECT-INJECTION-COMPRESSION-IGNITION ENGINE: EFFECT OF THE EXHAUST GAS RECIRCULATION. Combustion Science and Technology, 2007, 179, 1631-1648.	2.3	7
64	Effects of Controlling Oxygen Concentration on the Performance, Emission and Combustion Characteristics in a Downsized SI Engine. , 0, , .		7
65	Numerical and Experimental Investigation of Combustion Regimes in a Dual Fuel Engine. , 0, , .		7
66	Effect of exhaust gas recirculation composition on soot in ECN spray A conditions. Oil and Gas Science and Technology, 2020, 75, 34.	1.4	7
67	Characterization of the ECN spray A in different facilities. Part 2: spray vaporization and combustion. Oil and Gas Science and Technology, 2020, 75, 78.	1.4	6
68	A scale-entropy diffusion equation to describe the multi-scale features of turbulent flames near a wall. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 6712-6724.	2.6	4
69	Bivariate 2D empirical mode decomposition for analyzing instantaneous turbulent velocity field in unsteady flows. Experiments in Fluids, 2019, 60, 1.	2.4	4
70	Improvement of Turbulent Burning Velocity Measurements by Schlieren Technique, for High Pressure Isooctane-Air Premixed Flames. Combustion Science and Technology, 2020, 192, 416-432.	2.3	4
71	Nitric oxide detection inside the cylinder of an SI engine by direct UV absorption spectroscopy. Optics and Lasers in Engineering, 2005, 43, 1-18.	3.8	3
72	Effect of Pressure and Dilution on Flame Front Displacement in Boosted Spark-Ignition Engine Combustion. SAE International Journal of Fuels and Lubricants, 2008, 1, 984-992.	0.2	3

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73	Combustion Characteristics of Two Biogenic Volatile Organic Compounds: L-Fenchone and 3-Hexen-1-OL. Combustion Science and Technology, 2014, 186, 1284-1294.	2.3	3
74	Effects of Temperature and Equivalence Ratio on Laminar Burning Speeds of Î±-Pinene/Benzene/Air Mixtures for Different Fuel Proportions. Combustion Science and Technology, 2016, 188, 2128-2136.	2.3	2
75	Editorial: Main results from Engine Combustion Network â€“ France project: characterization of new experimental facilities and study of Diesel evaporation and combustion processes using advanced optical diagnostics. Oil and Gas Science and Technology, 2020, 75, E1.	1.4	0
76	Editorial: Fundamental Characterization and Performance of Alternative Fuels. Frontiers in Mechanical Engineering, 2020, 6, .	1.8	0