

Nathalie Lamoureux

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,049
citations

623734

14
h-index

434195

31
g-index

32
all docs

32
docs citations

32
times ranked

720
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and modeling study of the high-temperature combustion chemistry of tetrahydrofurfuryl alcohol. Proceedings of the Combustion Institute, 2021, 38, 631-640.	3.9	6
2	<i>In Situ</i> Laser-Induced Fluorescence and <i>Ex Situ</i> Cavity Ring-Down Spectroscopy Applied to NO Measurement in Flames: Microprobe Perturbation and Absolute Quantification. Energy & Fuels, 2021, 35, 7107-7120.	5.1	10
3	Quantitative measurement of atomic hydrogen in low-pressure methane flames using two-photon LIF calibrated by krypton. Combustion and Flame, 2021, 224, 248-259.	5.2	6
4	The story of NCN as a key species in prompt-NO formation. Progress in Energy and Combustion Science, 2021, 87, 100940.	31.2	14
5	Direct quantification of O-atom in low-pressure methane flames by using two-photon LIF. Proceedings of the Combustion Institute, 2021, 38, 1753-1760.	3.9	5
6	Exploring the Flame Chemistry of C ₅ Tetrahydrofuranic Biofuels: Tetrahydrofurfuryl Alcohol and 2-Methyltetrahydrofuran. Energy & Fuels, 2021, 35, 18699-18715.	5.1	5
7	NO formation in high pressure premixed flames: Experimental results and validation of a new revised reaction mechanism. Fuel, 2020, 260, 116331.	6.4	18
8	Experimental investigation on laminar burning velocities of ammonia/hydrogen/air mixtures at elevated temperatures. Fuel, 2020, 263, 116653.	6.4	202
9	The accuracy and precision of multi-line NO-LIF thermometry in a wide range of pressures and temperatures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 255, 107257.	2.3	13
10	Quantitative NH measurements by using laser-based diagnostics in low-pressure flames. Proceedings of the Combustion Institute, 2019, 37, 1313-1320.	3.9	6
11	Impact of methyl butanoate oxidation on NO formation in laminar low pressure flames. Fuel, 2017, 207, 801-813.	6.4	14
12	Study of the iodine kinetics in thermal conditions of a RCS in nuclear severe accident. Annals of Nuclear Energy, 2017, 101, 69-82.	1.8	7
13	Measurements and modelling of nitrogen species in CH ₄ /O ₂ /N ₂ flames doped with NO, NH ₃ , or NH ₃ +NO. Combustion and Flame, 2017, 176, 48-59.	5.2	15
14	Modeling of NO formation in low pressure premixed flames. Combustion and Flame, 2016, 163, 557-575.	5.2	87
15	Measurements and modelling of HCN and CN species profiles in laminar CH ₄ /O ₂ /N ₂ low pressure flames using LIF/CRDS techniques. Proceedings of the Combustion Institute, 2015, 35, 745-752.	3.9	20
16	Measurements and modeling of laser-induced incandescence of soot at different heights in a flat premixed flame. Applied Physics B: Lasers and Optics, 2015, 118, 449-469.	2.2	31
17	The rate constant of the reaction NCN + H ₂ and its role in NCN and NO modeling in low pressure CH ₄ /O ₂ /N ₂ -flames. Physical Chemistry Chemical Physics, 2015, 17, 15876-15886.	2.8	12
18	Comprendre la CRDS pulsée. Photoniques, 2015, , 41-46.	0.1	0

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19	Laser-induced incandescence technique to identify soot nucleation and very small particles in low-pressure methane flames. <i>Applied Physics B: Lasers and Optics</i> , 2013, 112, 369-379.	2.2	27
20	HCN quantitative measurement in a laminar low pressure flame at 1036 nm using pulsed CRDS technique. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 3557-3564.	3.9	10
21	Reinvestigation of the spectroscopy of the transition of the NCN radical at high temperature: Application to quantitative NCN measurement in flames. <i>Combustion and Flame</i> , 2013, 160, 755-765.	5.2	18
22	NCO Quantitative Measurement in Premixed Low Pressure Flames by Combining LIF and CRDS Techniques. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5346-5353.	2.5	10
23	Experimental and numerical study of the role of NCN in prompt-NO formation in low-pressure CH ₄ -O ₂ -N ₂ and C ₂ H ₂ -O ₂ -N ₂ flames. <i>Combustion and Flame</i> , 2010, 157, 1929-1941.	5.2	92
24	NCN quantitative measurement in a laminar low pressure flame. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 937-944.	3.9	28
25	Diode laser atomic fluorescence temperature measurements in low-pressure flames. <i>Applied Physics B: Lasers and Optics</i> , 2008, 93, 907-914.	2.2	14
26	Prompt-NO formation in methane/oxygen/nitrogen flames seeded with oxygenated volatile organic compounds: Methyl ethyl ketone or ethyl acetate. <i>Combustion and Flame</i> , 2008, 153, 186-201.	5.2	21
27	Experimental Study and Detailed Modeling of Toluene Degradation in a Low-Pressure Stoichiometric Premixed CH ₄ /O ₂ /N ₂ Flame. <i>Journal of Physical Chemistry A</i> , 2007, 111, 3907-3921.	2.5	22
28	Natural gas ignition delay times behind reflected shock waves: Application to modelling and safety. <i>Shock Waves</i> , 2003, 13, 57-68.	1.9	50
29	Laminar flame velocity determination for H ₂ -air-He-CO ₂ mixtures using the spherical bomb method. <i>Experimental Thermal and Fluid Science</i> , 2003, 27, 385-393.	2.7	206
30	Low hydrocarbon mixtures ignition delay times investigation behind reflected shock waves. <i>Shock Waves</i> , 2002, 11, 309-322.	1.9	68
31	Interprétation de la double structure observée dans l'onde de détonation du nitrométhane gazeux. <i>Comptes Rendus Mécanique</i> , 2001, 329, 687-692.	0.2	2