Mara de Joannon

List of Publications by Citations

71 papers	2,478 citations	25 h-index	49 g-index
73 ext. papers	3,025 ext. citations	5.5 avg, IF	5.38 L-index

#	Paper	IF	Citations
71	Mild Combustion. *Progress in Energy and Combustion Science*, **2004**, 30, 329-366	33.6	833
70	MILD combustion in diffusion-controlled regimes of Hot Diluted Fuel. *Combustion and Flame*, **2012**, 159, 1832-1839	5.3	112
69	Review on Ammonia as a Potential Fuel: From Synthesis to Economics. *Energy & Fuels*, **2021**, 35, 6964-7029	4.1	95
68	Analysis of process parameters for steady operations in methane mild combustion technology. *Proceedings of the Combustion Institute*, **2005**, 30, 2605-2612	5.9	94
67	CO2 and H2O effect on propane auto-ignition delay times under mild combustion operative conditions. *Combustion and Flame*, **2015**, 162, 533-543	5.3	76
66	Zero-dimensional analysis of diluted oxidation of methane in rich conditions. *Proceedings of the Combustion Institute*, **2000**, 28, 1639-1646	5.9	70
65	Hydrogen-enriched methane Mild Combustion in a well stirred reactor. *Experimental Thermal and Fluid Science*, **2007**, 31, 469-475	3	61
64	Numerical study of mild combustion in hot diluted diffusion ignition (HDDI) regime. *Proceedings of the Combustion Institute*, **2009**, 32, 3147-3154	5.9	58
63	Mild Combustion in Homogeneous Charge Diffusion Ignition (HCDI) regime. *Proceedings of the Combustion Institute*, **2007**, 31, 3409-3416	5.9	54
62	The Effect of Diluent on the Sustainability of MILD Combustion in a Cyclonic Burner. *Flow, Turbulence and Combustion*, **2016**, 96, 449-468	2.5	48
61	Pyrolitic and Oxidative Structures in Hot Oxidant Diluted Oxidant (HODO) MILD Combustion. *Combustion Science and Technology*, **2012**, 184, 1207-1218	1.5	48
60	Low-NOx conversion of pure ammonia in a cyclonic burner under locally diluted and preheated conditions. *Applied Energy*, **2019**, 254, 113676	10.7	47
59	Methane auto-ignition delay times and oxidation regimes in MILD combustion at atmospheric pressure. *Combustion and Flame*, **2013**, 160, 47-55	5.3	45
58	H2O and CO2 Dilution in MILD Combustion of Simple Hydrocarbons. *Flow, Turbulence and Combustion*, **2016**, 96, 433-448	2.5	43
57	Fluorescence spectroscopy of aromatic species produced in rich premixed ethylene flames. *Chemosphere*, **2001**, 42, 835-41	8.4	40
56	Impact of external operating parameters on the performance of a cyclonic burner with high level of internal recirculation under MILD combustion conditions. *Energy*, **2017**, 137, 1167-1174	7.9	39
55	Influence of preheating and thermal power on cyclonic burner characteristics under mild combustion. *Fuel*, **2018**, 233, 207-214	7.1	38

54	Mild Combustion: Process Features and Technological Constrains. *Combustion Science and Technology*, **2000**, 153, 33-50	1.5	36
53	Modeling Negative Temperature Coefficient region in methane oxidation. *Fuel*, **2012**, 91, 238-245	7.1	34
52	The relation between ultraviolet-excited fluorescence spectroscopy and aromatic species formed in rich laminar ethylene flames. *Combustion and Flame*, **2001**, 125, 1225-1229	5.3	32
51	Fuel and thermal load flexibility of a MILD burner. *Proceedings of the Combustion Institute*, **2019**, 37, 4547-4554	5.9	32
50	Small size burner combustion stabilization by means of strong cyclonic recirculation. *Proceedings of the Combustion Institute*, **2017**, 36, 3361-3369	5.9	31
49	Autoignition delay times of propane mixtures under MILD conditions at atmospheric pressure. *Combustion and Flame*, **2014**, 161, 3022-3030	5.3	31
48	DYNAMIC BEHAVIOR OF METHANE OXIDATION IN PREMIXED FLOW REACTOR. *Combustion Science and Technology*, **2004**, 176, 769-783	1.5	28
47	Dependence of autoignition delay on oxygen concentration in mild combustion of high molecular weight paraffin. *Proceedings of the Combustion Institute*, **2002**, 29, 1139-1146	5.9	27
46	Numerical Investigation of Moderate or Intense Low-Oxygen Dilution Combustion in a Cyclonic Burner Using a Flamelet-Generated Manifold Approach. *Energy & Fuels*, **2018**, 32, 10242-10255	4.1	24
45	Oxidation and pyrolysis of ammonia mixtures in model reactors. *Fuel*, **2020**, 264, 116768	7.1	23
44	Influence of water addition on MILD ammonia combustion performances and emissions. *Proceedings of the Combustion Institute*, **2021**, 38, 5147-5154	5.9	21
43	Development of a Novel Cyclonic Flow Combustion Chamber for Achieving MILD/Flameless Combustion. *Energy Procedia*, **2015**, 66, 141-144	2.3	18
42	Heterogeneous nucleation activation in a condensational scrubber for particulate abatement. *Fuel Processing Technology*, **2013**, 107, 113-118	7.2	18
41	An experimental and numerical study of MILD combustion in a Cyclonic burner. *Energy Procedia*, **2017**, 120, 649-656	2.3	17
40	Propane oxidation in a Jet Stirred Flow Reactor. The effect of H 2 O as diluent species. *Experimental Thermal and Fluid Science*, **2018**, 95, 35-43	3	17
39	VOC destruction by water diluted hydrogen mild combustion. *Chemosphere*, **2007**, 68, 330-7	8.4	16
38	Oscillatory Behavior in Methane Combustion: Influence of the Operating Parameters. *Energy & Fuels*, **2018**, 32, 10088-10099	4.1	15
37	Ammonia oxidation features in a Jet Stirred Flow Reactor. The role of NH2 chemistry.. *Fuel*, **2020**, 276, 118054	7.1	15

36	The role of dilution level and canonical configuration in the modeling of MILD combustion systems with internal recirculation. *Fuel*, **2020**, 264, 116840	7.1	15
35	Experimental study of the effect of CO2 on propane oxidation in a Jet Stirred Flow Reactor. *Fuel*, **2016**, 184, 876-888	7.1	15
34	Effects of mixture composition, dilution level and pressure on auto-ignition delay times of propane mixtures. *Chemical Engineering Journal*, **2015**, 277, 324-333	14.7	14
33	Laser Excited Emission and Chemiluminescence from Autoigniting Spray. *Combustion Science and Technology*, **2000**, 155, 129-147	1.5	13
32	Effects of Bath Gas and NOx Addition on n-Pentane Low-Temperature Oxidation in a Jet-Stirred Reactor. *Energy & Fuels*, **2019**, 33, 5655-5663	4.1	12
31	Optimization of Chemical Kinetics for Methane and Biomass Pyrolysis Products in Moderate or Intense Low-Oxygen Dilution Combustion. *Energy & Fuels*, **2018**, 32, 10194-10201	4.1	12
30	Numerical investigation of the ignition and annihilation of CH4/N2/O2 mixtures under MILD operative conditions with detailed chemistry. *Combustion Theory and Modelling*, **2017**, 21, 120-136	1.5	11
29	Optimal post-combustion conditions for the purification of CO2-rich exhaust streams from non-condensable reactive species. *Chemical Engineering Journal*, **2012**, 211-212, 318-326	14.7	11
28	On H2O2 oxidation in several bath gases. *International Journal of Hydrogen Energy*, **2020**, 45, 8151-8167	6.7	10
27	A Comprehensive Kinetic Modeling of Ignition of Syngas/Air Mixtures at Low Temperatures and High Pressures. *Combustion Science and Technology*, **2010**, 182, 692-701	1.5	9
26	Highly Preheated Lean Combustion **2008**, 55-94		9
25	Spectroscopic behavior of oxygenated combustion by-products. *Chemosphere*, **2003**, 51, 1071-7	8.4	9
24	Thermochemical oscillation of methane MILD combustion diluted with N2/CO2/H2O. *Combustion Science and Technology*, **2019**, 191, 68-80	1.5	9
23	Critical Issues of Chemical Kinetics in MILD Combustion. *Frontiers in Mechanical Engineering*, **2020**, 6,	2.6	8
22	Mutual inhibition effect of hydrogen and ammonia in oxidation processes and the role of ammonia as "strong" collider in third-molecular reactions. *International Journal of Hydrogen Energy*, **2020**, 45, 32113-32127	6.7	8
21	Diffusion Ignition Processes in MILD Combustion: A Mini-Review. *Frontiers in Mechanical Engineering*, **2020**, 6,	2.6	7
20	Identification of oxygenated compounds in combustion systems. *Chemosphere*, **2001**, 42, 843-51	8.4	7
19	Thermo-chemical manifold reduction for tabulated chemistry modeling. Temperature and dilution constraints for smooth combustion reactors. *Proceedings of the Combustion Institute*, **2021**, 38, 5393-5402	5.9	7

18	MILD Combustion **2010**, 237		6
17	MILD Combustion and Biofuels: A Minireview. *Energy & Fuels*,	4.1	6
16	REACTOR CHARACTERISTICS RELATED TO MODERATE OR INTENSE LOW-OXYGEN DILUTION FOR CLEAN/CLEANING COMBUSTION PLANTS. *Clean Air*, **2003**, 4, 1-20		5
15	Alcohols as Energy Carriers in MILD Combustion. *Energy & Fuels*, **2021**, 35, 7253-7264	4.1	5
14	Removal of Very Small Submicrometric Particles by Water Nucleation: Effects of Chemical/Physical Properties of Particles. *Energy & Fuels*, **2018**, 32, 10285-10294	4.1	5
13	AIR DILUTION EFFECTS ON TETRADECANE SPRAY AUTOIGNITION IN TRANSCRITICAL AND SUPERCRITICAL REGIMES. *Atomization and Sprays*, **1999**, 9, 153-172	1.2	4
12	Introduction of the Special Issue on SMARTCATs COST Action. *Energy & Fuels*, **2018**, 32, 10051-10054	4.1	4
11	PYROLYTIC AND OXIDATIVE STRUCTURES IN HDDI MILD COMBUSTION. *International Journal of Energy for A Clean Environment*, **2010**, 11, 21-34	1.5	3
10	DILUTION EFFECTS IN NATURAL GAS MILD COMBUSTION. *Clean Air*, **2006**, 7, 127-139		3
9	Ammonia oxidation regimes and transitional behaviors in a Jet Stirred Flow Reactor. *Combustion and Flame*, **2021**, 228, 388-400	5.3	3
8	New insight into NH3-H2 mutual inhibiting effects and dynamic regimes at low-intermediate temperatures. *Combustion and Flame*, **2022**, 111957	5.3	2
7	Mini-Review: Heat Transfer Mechanisms in MILD Combustion Systems. *Frontiers in Mechanical Engineering*, **2021**, 7,	2.6	2
6	Highly Preheated Lean Combustion **2016**, 63-109		2
5	Ammonia/Methane combustion: Stability and NOx emissions. *Combustion and Flame*, **2022**, 241, 112071	5.3	2
4	Distributed combustion in a cyclonic burner **2017**,		1
3	Analysis of pyrolysis process in diesel-like combustion by means of laser-induced fluorescence. *Proceedings of the Combustion Institute*, **1996**, 26, 2525-2531		1
2	Easy tuning of nanotexture and N doping of carbonaceous particles produced by spark discharge. *Carbon Trends*, **2021**, 5, 100134	0	1
1	Reactive Structures of Ammonia MILD Combustion in Diffusion Ignition Processes. *Frontiers in Energy Research*, **2021**, 9,	3.8	1