# Mara de Joannon

List of Publications by Year
in descending order



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|---|---|---|---|
| 72 papers | 3,647 citations | 172207 29 h-index | 133063 59 g-index |
| 74 all docs | 74 docs citations | 74 times ranked | 1335 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | New insight into NH3-H2 mutual inhibiting effects and dynamic regimes at low-intermediate temperatures. Combustion and Flame, 2022, 243, 111957. | 2.8 | 22 |
| 2 | Ammonia/Methane combustion: Stability and NOx emissions. Combustion and Flame, 2022, 241, 112071. | 2.8 | 91 |
| 3 | 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. | 2.4 | 12 |
| 4 | Influence of water addition on MILD ammonia combustion performances and emissions. Proceedings of the Combustion Institute, 2021, 38, 5147-5154. | 2.4 | 69 |
| 5 | Alcohols as Energy Carriers in MILD Combustion. Energy & Fuels, 2021, 35, 7253-7264. | 2.5 | 19 |
| 6 | Review on Ammonia as a Potential Fuel: From Synthesis to Economics. Energy & Fuels, 2021, 35, 6964-7029. | 2.5 | 403 |
| 7 | Mini-Review: Heat Transfer Mechanisms in MILD Combustion Systems. Frontiers in Mechanical Engineering, 2021, 7, . | 0.8 | 2 |
| 8 | Ammonia oxidation regimes and transitional behaviors in a Jet Stirred Flow Reactor. Combustion and Flame, 2021, 228, 388-400. | 2.8 | 21 |
| 9 | Editorial: MILD Combustion: Modelling Challenges, Experimental Configurations, and Diagnostic Tools. Frontiers in Mechanical Engineering, 2021, 7, . | 0.8 | 1 |
| 10 | Reactive Structures of Ammonia MILD Combustion in Diffusion Ignition Processes. Frontiers in Energy Research, 2021, 9, . | 1.2 | 8 |
| 11 | Easy tuning of nanotexture and N doping of carbonaceous particles produced by spark discharge. Carbon Trends, 2021, 5, 100134. | 1.4 | 3 |
| 12 | MILD Combustion and Biofuels: A Minireview. Energy & Fuels, 2021, 35, 19901-19919. | 2.5 | 31 |
| 13 | The role of dilution level and canonical configuration in the modeling of MILD combustion systems with internal recirculation. Fuel, 2020, 264, 116840. | 3.4 | 24 |
| 14 | Oxidation and pyrolysis of ammonia mixtures in model reactors. Fuel, 2020, 264, 116768. | 3.4 | 48 |
| 15 | Mutual inhibition effect of hydrogen and ammonia in oxidation processes and the role of ammonia as â€œstrongâ€•collider in third-molecular reactions. International Journal of Hydrogen Energy, 2020, 45, 32113-32127. | 3.8 | 26 |
| 16 | Diffusion Ignition Processes in MILD Combustion: A Mini-Review. Frontiers in Mechanical Engineering, 2020, 6, . | 0.8 | 14 |
| 17 | On H2â€“O2 oxidation in several bath gases. International Journal of Hydrogen Energy, 2020, 45, 8151-8167. | 3.8 | 22 |
| 18 | Critical Issues of Chemical Kinetics in MILD Combustion. Frontiers in Mechanical Engineering, 2020, 6, . | 0.8 | 11 |

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|---|---|---|---|
| 19 | Ammonia oxidation features in a Jet Stirred Flow Reactor. The role of NH2 chemistry.. Fuel, 2020, 276, 118054. | 3.4 | 44 |
| 20 | Low-NOx conversion of pure ammonia in a cyclonic burner under locally diluted and preheated conditions. Applied Energy, 2019, 254, 113676. | 5.1 | 96 |
| 21 | Effects of Bath Gas and NO<sub><i>x</i></sub> Addition on <i>n</i>-Pentane Low-Temperature Oxidation in a Jet-Stirred Reactor. Energy & Fuels, 2019, 33, 5655-5663. | 2.5 | 24 |
| 22 | Fuel and thermal load flexibility of a MILD burner. Proceedings of the Combustion Institute, 2019, 37, 4547-4554. | 2.4 | 44 |
| 23 | Thermochemical oscillation of methane MILD combustion diluted with N<sub>2</sub>/CO<sub>2</sub>/H<sub>2</sub>O. Combustion Science and Technology, 2019, 191, 68-80. | 1.2 | 12 |
| 24 | Introduction of the Special Issue on SMARTCATs COST Action. Energy & Fuels, 2018, 32, 10051-10051. | 2.5 | 4 |
| 25 | Removal of Very Small Submicrometric Particles by Water Nucleation: Effects of Chemicalâ€“Physical Properties of Particles. Energy & Fuels, 2018, 32, 10285-10294. | 2.5 | 5 |
| 26 | 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. | 2.5 | 27 |
| 27 | Influence of preheating and thermal power on cyclonic burner characteristics under mild combustion. Fuel, 2018, 233, 207-214. | 3.4 | 51 |
| 28 | 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. | 1.5 | 18 |
| 29 | Optimization of Chemical Kinetics for Methane and Biomass Pyrolysis Products in Moderate or Intense Low-Oxygen Dilution Combustion. Energy & Fuels, 2018, 32, 10194-10201. | 2.5 | 15 |
| 30 | Oscillatory Behavior in Methane Combustion: Influence of the Operating Parameters. Energy & Fuels, 2018, 32, 10088-10099. | 2.5 | 22 |
| 31 | Small size burner combustion stabilization by means of strong cyclonic recirculation. Proceedings of the Combustion Institute, 2017, 36, 3361-3369. | 2.4 | 34 |
| 32 | 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. | 4.5 | 53 |
| 33 | An experimental and numerical study of MILD combustion in a Cyclonic burner. Energy Procedia, 2017, 120, 649-656. | 1.8 | 20 |
| 34 | Distributed combustion in a cyclonic burner. AIP Conference Proceedings, 2017, , . | 0.3 | 1 |
| 35 | 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. | 1.0 | 11 |
| 36 | Thermo-kinetic instabilities in model reactors. Examples in experimental tests. AIP Conference Proceedings, 2017, , . | 0.3 | 0 |

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|---|---|---|---|
| 37 | Highly Preheated Lean Combustion. , 2016, , 63-109. | | 6 |
| 38 | Experimental study of the effect of CO2 on propane oxidation in a Jet Stirred Flow Reactor. Fuel, 2016, 184, 876-888. | 3.4 | 19 |
| 39 | The Effect of Diluent on the Sustainability of MILD Combustion in a Cyclonic Burner. Flow, Turbulence and Combustion, 2016, 96, 449-468. | 1.4 | 56 |
| 40 | H2O and CO2 Dilution in MILD Combustion of Simple Hydrocarbons. Flow, Turbulence and Combustion, 2016, 96, 433-448. | 1.4 | 49 |
| 41 | CO 2 and H 2 O effect on propane auto-ignition delay times under mild combustion operative conditions. Combustion and Flame, 2015, 162, 533-543. | 2.8 | 95 |
| 42 | Effects of mixture composition, dilution level and pressure on auto-ignition delay times of propane mixtures. Chemical Engineering Journal, 2015, 277, 324-333. | 6.6 | 18 |
| 43 | Development of a Novel Cyclonic Flow Combustion Chamber for Achieving MILD/Flameless Combustion. Energy Procedia, 2015, 66, 141-144. | 1.8 | 18 |
| 44 | Autoignition delay times of propane mixtures under MILD conditions at atmospheric pressure. Combustion and Flame, 2014, 161, 3022-3030. | 2.8 | 43 |
| 45 | Heterogeneous nucleation activation in a condensational scrubber for particulate abatement. Fuel Processing Technology, 2013, 107, 113-118. | 3.7 | 23 |
| 46 | Methane auto-ignition delay times and oxidation regimes in MILD combustion at atmospheric pressure. Combustion and Flame, 2013, 160, 47-55. | 2.8 | 60 |
| 47 | 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. | 6.6 | 12 |
| 48 | Pyrolitic and Oxidative Structures in Hot Oxidant Diluted Oxidant (HODO) MILD Combustion. Combustion Science and Technology, 2012, 184, 1207-1218. | 1.2 | 62 |
| 49 | Modeling Negative Temperature Coefficient region in methane oxidation. Fuel, 2012, 91, 238-245. | 3.4 | 41 |
| 50 | MILD combustion in diffusion-controlled regimes of Hot Diluted Fuel. Combustion and Flame, 2012, 159, 1832-1839. | 2.8 | 129 |
| 51 | A Comprehensive Kinetic Modeling of Ignition of Syngasâ€“Air Mixtures at Low Temperatures and High Pressures. Combustion Science and Technology, 2010, 182, 692-701. | 1.2 | 14 |
| 52 | PYROLYTIC AND OXIDATIVE STRUCTURES IN HDDI MILD COMBUSTION. International Journal of Energy for A Clean Environment, 2010, 11, 21-34. | 0.6 | 3 |
| 53 | Numerical study of mild combustion in hot diluted diffusion ignition (HDDI) regime. Proceedings of the Combustion Institute, 2009, 32, 3147-3154. | 2.4 | 70 |
| 54 | Highly Preheated Lean Combustion. , 2008, , 55-94. | | 10 |

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|---|---|---|---|
| 55 | VOC destruction by water diluted hydrogen mild combustion. Chemosphere, 2007, 68, 330-337. | 4.2 | 16 |
| 56 | Hydrogen-enriched methane Mild Combustion in a well stirred reactor. Experimental Thermal and Fluid Science, 2007, 31, 469-475. | 1.5 | 69 |
| 57 | Mild Combustion in Homogeneous Charge Diffusion Ignition (HCDI) regime. Proceedings of the Combustion Institute, 2007, 31, 3409-3416. | 2.4 | 58 |
| 58 | DILUTION EFFECTS IN NATURAL GAS MILD COMBUSTION. Clean Air, 2006, 7, 127-139. | 0.0 | 4 |
| 59 | Analysis of process parameters for steady operations in methane mild combustion technology. Proceedings of the Combustion Institute, 2005, 30, 2605-2612. | 2.4 | 102 |
| 60 | Mild Combustion. Progress in Energy and Combustion Science, 2004, 30, 329-366. | 15.8 | 1,036 |
| 61 | DYNAMIC BEHAVIOR OF METHANE OXIDATION IN PREMIXED FLOW REACTOR. Combustion Science and Technology, 2004, 176, 769-783. | 1.2 | 34 |
| 62 | Spectroscopic behavior of oxygenated combustion by-products. Chemosphere, 2003, 51, 1071-1077. | 4.2 | 10 |
| 63 | REACTOR CHARACTERISTICS RELATED TO MODERATE OR INTENSE LOW-OXYGEN DILUTION FOR CLEAN/CLEANING COMBUSTION PLANTS. Clean Air, 2003, 4, 1-20. | 0.0 | 6 |
| 64 | Dependence of autoignition delay on oxygen concentration in mild combustion of high molecular weight paraffin. Proceedings of the Combustion Institute, 2002, 29, 1139-1146. | 2.4 | 32 |
| 65 | Fluorescence spectroscopy of aromatic species produced in rich premixed ethylene flames. Chemosphere, 2001, 42, 835-841. | 4.2 | 43 |
| 66 | Identification of oxygenated compounds in combustion systems. Chemosphere, 2001, 42, 843-851. | 4.2 | 9 |
| 67 | The relation between ultraviolet-excited fluorescence spectroscopy and aromatic species formed in rich laminar ethylene flames. Combustion and Flame, 2001, 125, 1225-1229. | 2.8 | 36 |
| 68 | Zero-dimensional analysis of diluted oxidation of methane in rich conditions. Proceedings of the Combustion Institute, 2000, 28, 1639-1646. | 2.4 | 85 |
| 69 | Laser Excited Emission and Chemiluminescence from Autoigniting Spray. Combustion Science and Technology, 2000, 155, 129-147. | 1.2 | 14 |
| 70 | Mild Combustion: Process Features and Technological Constrains. Combustion Science and Technology, 2000, 153, 33-50. | 1.2 | 44 |
| 71 | AIR DILUTION EFFECTS ON TETRADECANE SPRAY AUTOIGNITION IN TRANSCRITICAL AND SUPERCRITICAL REGIMES. Atomization and Sprays, 1999, 9, 153-172. | 0.3 | 5 |
| 72 | Analysis of pyrolysis process in diesel-like combustion by means of laser-induced fluorescence. Proceedings of the Combustion Institute, 1996, 26, 2525-2531. | 0.3 | 1 |