

# Giancarlo Sorrentino

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

1,368  
citations

361296

20  
h-index

377752

34  
g-index

37  
all docs

37  
docs citations

37  
times ranked

641  
citing authors

#	ARTICLE	IF	CITATIONS
1	MILD combustion in diffusion-controlled regimes of Hot Diluted Fuel. <i>Combustion and Flame</i> , 2012, 159, 1832-1839.	2.8	129
2	Low-NOx conversion of pure ammonia in a cyclonic burner under locally diluted and preheated conditions. <i>Applied Energy</i> , 2019, 254, 113676.	5.1	96
3	CO <sub>2</sub> and H <sub>2</sub> O effect on propane auto-ignition delay times under mild combustion operative conditions. <i>Combustion and Flame</i> , 2015, 162, 533-543.	2.8	95
4	Ammonia/Methane combustion: Stability and NOx emissions. <i>Combustion and Flame</i> , 2022, 241, 112071.	2.8	91
5	Dynamic Behaviors in Methane MILD and Oxy-Fuel Combustion. <i>Chemical Effect of CO<sub>2</sub>. Energy &amp; Fuels</i> , 2015, 29, 1978-1986.	2.5	76
6	Numerical study of mild combustion in hot diluted diffusion ignition (HDDI) regime. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 3147-3154.	2.4	70
7	Influence of water addition on MILD ammonia combustion performances and emissions. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5147-5154.	2.4	69
8	Pyrolytic and Oxidative Structures in Hot Oxidant Diluted Oxidant (HODO) MILD Combustion. <i>Combustion Science and Technology</i> , 2012, 184, 1207-1218.	1.2	62
9	Hemicellulose, cellulose and lignin interactions on <i>Arundo donax</i> steam assisted pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 110, 138-146.	2.6	62
10	The Effect of Diluent on the Sustainability of MILD Combustion in a Cyclonic Burner. <i>Flow, Turbulence and Combustion</i> , 2016, 96, 449-468.	1.4	56
11	Impact of external operating parameters on the performance of a cyclonic burner with high level of internal recirculation under MILD combustion conditions. <i>Energy</i> , 2017, 137, 1167-1174.	4.5	53
12	Influence of preheating and thermal power on cyclonic burner characteristics under mild combustion. <i>Fuel</i> , 2018, 233, 207-214.	3.4	51
13	H <sub>2</sub> O and CO <sub>2</sub> Dilution in MILD Combustion of Simple Hydrocarbons. <i>Flow, Turbulence and Combustion</i> , 2016, 96, 433-448.	1.4	49
14	Fuel and thermal load flexibility of a MILD burner. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4547-4554.	2.4	44
15	Small size burner combustion stabilization by means of strong cyclonic recirculation. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 3361-3369.	2.4	34
16	MILD Combustion and Biofuels: A Minireview. <i>Energy &amp; Fuels</i> , 2021, 35, 19901-19919.	2.5	31
17	Study of aerodynamic performances of different wind tunnel configurations and air inlet velocities, using computational fluid dynamics (CFD). <i>Computers and Electronics in Agriculture</i> , 2016, 125, 137-148.	3.7	29
18	Numerical Investigation of Moderate or Intense Low-Oxygen Dilution Combustion in a Cyclonic Burner Using a Flamelet-Generated Manifold Approach. <i>Energy &amp; Fuels</i> , 2018, 32, 10242-10255.	2.5	27

#	ARTICLE	IF	CITATIONS
19	Transient inception of MILD combustion in hot diluted diffusion ignition (HDDI) regime: A numerical study. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 3239-3247.	2.4	24
20	The role of dilution level and canonical configuration in the modeling of MILD combustion systems with internal recirculation. <i>Fuel</i> , 2020, 264, 116840.	3.4	24
21	New insight into NH <sub>3</sub> -H <sub>2</sub> mutual inhibiting effects and dynamic regimes at low-intermediate temperatures. <i>Combustion and Flame</i> , 2022, 243, 111957.	2.8	22
22	An experimental and numerical study of MILD combustion in a Cyclonic burner. <i>Energy Procedia</i> , 2017, 120, 649-656.	1.8	20
23	Experimental study of the effect of CO <sub>2</sub> on propane oxidation in a Jet Stirred Flow Reactor. <i>Fuel</i> , 2016, 184, 876-888.	3.4	19
24	Alcohols as Energy Carriers in MILD Combustion. <i>Energy &amp; Fuels</i> , 2021, 35, 7253-7264.	2.5	19
25	Effects of mixture composition, dilution level and pressure on auto-ignition delay times of propane mixtures. <i>Chemical Engineering Journal</i> , 2015, 277, 324-333.	6.6	18
26	Development of a Novel Cyclonic Flow Combustion Chamber for Achieving MILD/Flameless Combustion. <i>Energy Procedia</i> , 2015, 66, 141-144.	1.8	18
27	Diffusion Ignition Processes in MILD Combustion: A Mini-Review. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	0.8	14
28	Numerical Study of a Cyclonic Combustor under Moderate or Intense Low-Oxygen Dilution Conditions Using Non-adiabatic Tabulated Chemistry. <i>Energy &amp; Fuels</i> , 2018, 32, 10256-10265.	2.5	12
29	Thermo-chemical manifold reduction for tabulated chemistry modeling. Temperature and dilution constraints for smooth combustion reactors. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5393-5402.	2.4	12
30	Numerical investigation of the ignition and annihilation of CH <sub>4</sub> /N <sub>2</sub> /O <sub>2</sub> mixtures under MILD operative conditions with detailed chemistry. <i>Combustion Theory and Modelling</i> , 2017, 21, 120-136.	1.0	11
31	Evaluation of Modeling Approaches for MILD Combustion Systems With Internal Recirculation. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	0.8	11
32	Thermal and mechanical stabilization process of the organic fraction of the municipal solid waste. <i>Waste Management</i> , 2015, 44, 125-134.	3.7	10
33	Highly Preheated Lean Combustion. , 2016, , 63-109.		6
34	Mini-Review: Heat Transfer Mechanisms in MILD Combustion Systems. <i>Frontiers in Mechanical Engineering</i> , 2021, 7, .	0.8	2
35	Distributed combustion in a cyclonic burner. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
36	Thermo-kinetic instabilities in model reactors. Examples in experimental tests. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0