Gianmaria Pio

List of Publications by Year
in descending order

33	493	686830 13	713013 21
papers	citations	h-index	g-index

35	35	35	300
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the influence of steam on the CO2 chemisorption capacity of a hydrotalcite-based adsorbent for SEWGS applications. Chemical Engineering Journal, 2017, 314, 554-569.	6.6	56
2	The effect of ultra-low temperature on the flammability limits of a methane/air/diluent mixtures. Journal of Hazardous Materials, 2019, 362, 224-229.	6.5	42
3	The effect of a hydrogen addition to the premixed flame structure of light alkanes. Fuel, 2018, 234, 1064-1070.	3.4	37
4	Laminar Burning Velocity of Methane, Hydrogen, and Their Mixtures at Extremely Low-Temperature Conditions. Energy & Fuels, 2018, 32, 8830-8836.	2.5	35
5	Comparison and Validation of Detailed Kinetic Models for the Oxidation of Light Alkenes. Industrial & Engineering Chemistry Research, 2018, 57, 7130-7135.	1.8	32
6	Flammability parameters of liquified natural gas. Journal of Loss Prevention in the Process Industries, 2018, 56, 424-429.	1.7	23
7	Automatically generated model for light alkene combustion. Combustion and Flame, 2022, 241, 112080.	2.8	23
8	Numerical simulation of small-scale pool fires of LNG. Journal of Loss Prevention in the Process Industries, 2019, 61, 82-88.	1.7	21
9	A comparison of dispersion models for the LNG dispersion at port of Koper, Slovenia. Safety Science, 2021, 144, 105467.	2.6	19
10	Quantitative risk analysis for the Amerigo Vespucci (Florence, Italy) airport including domino effects. Safety Science, 2019, 113, 472-489.	2.6	17
11	Experimental and numerical evaluation of low-temperature combustion of bio-syngas. International Journal of Hydrogen Energy, 2020, 45, 1084-1095.	3.8	17
12	Implementation of gas-phase kinetic model for the optimization of the ethylene oxide production. Chemical Engineering Science, 2020, 212, 115331.	1.9	15
13	Evaluation of safety parameters of light alkenes by means of detailed kinetic models. Chemical Engineering Research and Design, 2018, 119, 131-137.	2.7	14
14	Realistic aviation fuel chemistry in computational fluid dynamics. Fuel, 2019, 254, 115676.	3.4	14
15	A Numerical Study on the Effect of Temperature and Composition on the Flammability of Methaneâ€“Hydrogen Sulfide Mixtures. Combustion Science and Technology, 2019, 191, 1541-1557.	1.2	14
16	Safety distances for the sour biogas in digestion plants. Chemical Engineering Research and Design, 2021, 147, 1-7.	2.7	12
17	Low temperature combustion of methane/alkenes mixtures. Fuel, 2019, 254, 115567.	3.4	10
18	Large eddy simulation for the rapid phase transition of LNG. Safety Science, 2021, 133, 105001.	2.6	10

#	Article	IF	Citations
19	Experimental and numerical characterization of hydrogen jet fires. International Journal of Hydrogen Energy, 2022, 47, 21883-21896.	3.8	10
20	Accidental release in the bunkering of LNG: Phenomenological aspects and safety zone. Ocean Engineering, 2022, 252, 111163.	1.9	9
21	Safety parameters for oxygen-enriched flames. Journal of Loss Prevention in the Process Industries, 2020, 65, 104151.	1.7	8
22	The effects of low-temperature phenomena on rapid phase transition of liquid hydrogen. International Journal of Hydrogen Energy, 2020, 45, 32676-32685.	3.8	8
23	Detailed kinetic mechanism for the hydrogen production via the oxidative reforming of ethanol. Chemical Engineering Science, 2021, 237, 116591.	1.9	8
24	Structure of premixed flames of propylene oxide: Molecular beam mass spectrometric study and numerical simulation. Proceedings of the Combustion Institute, 2021, 38, 2467-2475.	2.4	7
25	A detailed kinetic model for the thermal decomposition of hydroxylamine. Journal of Hazardous Materials, 2021, 416, 125641.	6.5	7
26	On the flash fire of stratified cloud of liquefied natural gas. Journal of Loss Prevention in the Process Industries, 2022, 75, 104680.	1.7	7
27	The Effect of Hydrogen Addition on Low-Temperature Combustion of Light Hydrocarbons and Alcohols. Energies, 2020, 13, 3808.	1.6	4
28	The explosion of non-nano iron dust suspension in the 20-l spherical bomb. Journal of Loss Prevention in the Process Industries, 2021, 71, 104447.	1.7	4
29	Laminar Burning Velocity and Ignition Delay Time of Oxygenated Biofuel. Energies, 2021, 14, 3562.	1.6	3
30	Reduced Combustion Mechanism for Fire with Light Alcohols. Fire, 2021, 4, 86.	1.2	3
31	Gas-phase thermal explosions in catalytic direct oxidation of alkenes. Journal of Loss Prevention in the Process Industries, 2020, 65, 104097.	1.7	1
32	Accidental Combustion Phenomena at Cryogenic Conditions. Safety, 2021, 7, 67.	0.9	1
33	Pool fire of liquefied natural gas. , 2019, , 434-440.		0