

Ernesto Salzano

List of Publications by Year in descending order

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Version: 2024-02-01

145
papers

4,431
citations

94269

37
h-index

123241

61
g-index

163
all docs

163
docs citations

163
times ranked

1935
citing authors

#	ARTICLE	IF	CITATIONS
1	On the flash fire of stratified cloud of liquefied natural gas. <i>Journal of Loss Prevention in the Process Industries</i> , 2022, 75, 104680.	1.7	7
2	Accidental release in the bunkering of LNG: Phenomenological aspects and safety zone. <i>Ocean Engineering</i> , 2022, 252, 111163.	1.9	9
3	Automatically generated model for light alkene combustion. <i>Combustion and Flame</i> , 2022, 241, 112080.	2.8	23
4	Experimental and numerical characterization of hydrogen jet fires. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 21883-21896.	3.8	10
5	Safety distances for the sour biogas in digestion plants. <i>Chemical Engineering Research and Design</i> , 2021, 147, 1-7.	2.7	12
6	Structure of premixed flames of propylene oxide: Molecular beam mass spectrometric study and numerical simulation. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2467-2475.	2.4	7
7	Large eddy simulation for the rapid phase transition of LNG. <i>Safety Science</i> , 2021, 133, 105001.	2.6	10
8	Vulnerability assessment of chemical plants to intentional acts. , 2021, , 175-192.		1
9	Detailed kinetic mechanism for the hydrogen production via the oxidative reforming of ethanol. <i>Chemical Engineering Science</i> , 2021, 237, 116591.	1.9	8
10	Laminar Burning Velocity and Ignition Delay Time of Oxygenated Biofuel. <i>Energies</i> , 2021, 14, 3562.	1.6	3
11	Safety guidelines and a training framework for LNG storage and bunkering at ports. <i>Safety Science</i> , 2021, 138, 105212.	2.6	19
12	An Integrated Approach to Risk and Impacts of Geo-Resources Exploration and Exploitation. <i>Energies</i> , 2021, 14, 4178.	1.6	1
13	The explosion of non-nano iron dust suspension in the 20-l spherical bomb. <i>Journal of Loss Prevention in the Process Industries</i> , 2021, 71, 104447.	1.7	4
14	A detailed kinetic model for the thermal decomposition of hydroxylamine. <i>Journal of Hazardous Materials</i> , 2021, 416, 125641.	6.5	7
15	The effects of phosphorus-free inhibitors on the ignition of lycopodium dust. <i>Journal of Loss Prevention in the Process Industries</i> , 2021, 72, 104543.	1.7	3
16	A comparison of dispersion models for the LNG dispersion at port of Koper, Slovenia. <i>Safety Science</i> , 2021, 144, 105467.	2.6	19
17	Stand-off distances for domino effect caused by intentional acts. , 2021, , 155-174.		0
18	Explosion (overpressure) driven domino effect. <i>Methods in Chemical Process Safety</i> , 2021, , 119-133.	0.5	2

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19	Accidental Combustion Phenomena at Cryogenic Conditions. <i>Safety</i> , 2021, 7, 67.	0.9	1
20	Reduced Combustion Mechanism for Fire with Light Alcohols. <i>Fire</i> , 2021, 4, 86.	1.2	3
21	The effects of extreme winds on atmospheric storage tanks. <i>Reliability Engineering and System Safety</i> , 2020, 195, 106686.	5.1	26
22	A risk-based multi-level stress test methodology: application to six critical non-nuclear infrastructures in Europe. <i>Natural Hazards</i> , 2020, 100, 595-633.	1.6	17
23	Implementation of gas-phase kinetic model for the optimization of the ethylene oxide production. <i>Chemical Engineering Science</i> , 2020, 212, 115331.	1.9	15
24	Experimental and numerical evaluation of low-temperature combustion of bio-syngas. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1084-1095.	3.8	17
25	Safety parameters for oxygen-enriched flames. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 65, 104151.	1.7	8
26	The Effect of Hydrogen Addition on Low-Temperature Combustion of Light Hydrocarbons and Alcohols. <i>Energies</i> , 2020, 13, 3808.	1.6	4
27	The effects of low-temperature phenomena on rapid phase transition of liquid hydrogen. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 32676-32685.	3.8	8
28	Gas-phase thermal explosions in catalytic direct oxidation of alkenes. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 65, 104097.	1.7	1
29	Sustainability of cruise ship fuel systems: Comparison among LNG and diesel technologies. <i>Journal of Cleaner Production</i> , 2020, 260, 121069.	4.6	81
30	Dust explosion hazard in the textile industry. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 62, 103935.	1.7	15
31	Influence of initial temperature and pressure on the explosion behavior of n-dodecane/air mixtures. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 62, 103920.	1.7	19
32	Dust explosion risk in metal workings. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 61, 195-205.	1.7	18
33	CFD simulation of turbulent flow field, feeding and dispersion of non-spherical dust particles in the standard 20â€L sphere. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 62, 103983.	1.7	16
34	A case study of multiple explosions of chemicals under fire conditions. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 62, 103932.	1.7	5
35	Realistic aviation fuel chemistry in computational fluid dynamics. <i>Fuel</i> , 2019, 254, 115676.	3.4	14
36	Numerical simulation of small-scale pool fires of LNG. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 61, 82-88.	1.7	21

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37	Low temperature combustion of methane/alkenes mixtures. Fuel, 2019, 254, 115567.	3.4	10
38	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
39	Quantitative risk analysis for the Amerigo Vespucci (Florence, Italy) airport including domino effects. Safety Science, 2019, 113, 472-489.	2.6	17
40	Major accident hazard in biodiesel production processes. Safety Science, 2019, 113, 490-503.	2.6	15
41	A Numerical Study on the Effect of Temperature and Composition on the Flammability of Methane-Hydrogen Sulfide Mixtures. Combustion Science and Technology, 2019, 191, 1541-1557.	1.2	14
42	A comparative analysis of security risk assessment methodologies for the chemical industry. Reliability Engineering and System Safety, 2019, 191, 106083.	5.1	24
43	Study of the explosible properties of textile dusts. Journal of Loss Prevention in the Process Industries, 2018, 54, 110-122.	1.7	20
44	Runaway Reaction for the Esterification of Acetic Anhydride with Methanol Catalyzed by Sulfuric Acid. Industrial & Engineering Chemistry Research, 2018, 57, 4195-4202.	1.8	11
45	Thermal behaviour of Peracetic Acid for the epoxydation of vegetable oils in the presence of catalyst. Chemical Engineering Research and Design, 2018, 116, 718-726.	2.7	24
46	Pressurized CO ₂ releases in the framework of carbon sequestration and enhanced oil recovery safety analysis: Experiments and model. Chemical Engineering Research and Design, 2018, 116, 433-449.	2.7	15
47	Analysis of physical and cyber security-related events in the chemical and process industry. Chemical Engineering Research and Design, 2018, 116, 621-631.	2.7	54
48	Flammability parameters of liquified natural gas. Journal of Loss Prevention in the Process Industries, 2018, 56, 424-429.	1.7	23
49	Comparison and Validation of Detailed Kinetic Models for the Oxidation of Light Alkenes. Industrial & Engineering Chemistry Research, 2018, 57, 7130-7135.	1.8	32
50	Laminar Burning Velocity of Methane, Hydrogen, and Their Mixtures at Extremely Low-Temperature Conditions. Energy & Fuels, 2018, 32, 8830-8836.	2.5	35
51	Study of Soybean Oil Epoxydation: Effects of Sulfuric Acid and the Mixing Program. Industrial & Engineering Chemistry Research, 2018, 57, 11517-11525.	1.8	30
52	The effect of a hydrogen addition to the premixed flame structure of light alkanes. Fuel, 2018, 234, 1064-1070.	3.4	37
53	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
54	The Potentiality of Improvised Explosive Devices to Trigger Domino Effects. , 2018, , 103-110.		0

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55	Evaluating the structural priorities for the seismic vulnerability of civilian and industrial wastewater treatment plants. <i>Safety Science</i> , 2017, 97, 51-57.	2.6	14
56	Experimental and numerical analysis of the oxidative decomposition of H ₂ S. <i>Fuel</i> , 2017, 198, 68-75.	3.4	29
57	Thermal risk in semi-batch reactors: The epoxidation of soybean oil. <i>Chemical Engineering Research and Design</i> , 2017, 109, 529-537.	2.7	47
58	The vulnerability of industrial equipment to tsunamis. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 50, 301-307.	1.7	20
59	The ARGO Project: assessing NA-TECH risks on offshore oil platforms. <i>Energy Procedia</i> , 2017, 125, 145-152.	1.8	1
60	Including detonations in industrial safety and risk assessments. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 49, 171-176.	1.7	8
61	Explosion behavior of ammonia and ammonia/methane in oxygen-enriched air. <i>Process Safety Progress</i> , 2017, 36, 368-371.	0.4	8
62	Technological Hazard Characterization. , 2017, , 91-103.		0
63	Natural Hazard Characterization. , 2017, , 69-89.		0
64	Lessons Learned From Natch Events. , 2017, , 33-52.		3
65	Quantitative Methods for Natch Risk Assessment. , 2017, , 143-156.		1
66	Case Study Application III: RISKCURVES. , 2017, , 191-203.		0
67	Reducing Natch Risk: Organizational Measures. , 2017, , 227-235.		1
68	Recommendations and Outlook. , 2017, , 237-239.		0
69	Dynamic Assessment of Runaway Reaction Risk. , 2016, , 139-148.		0
70	Assessing the Severity of Runaway Reactions. , 2016, , 127-138.		1
71	A GIS-based tool for the management of industrial accidents triggered by volcanic ash fallouts. <i>Journal of Risk Research</i> , 2016, 19, 212-232.	1.4	7
72	Measurements of pressure and flame speed during explosions of CH ₄ /O ₂ /N ₂ /CO ₂ mixtures. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 44, 771-774.	1.7	8

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73	Direction of pressure wave propagation during combustion-induced rapid phase transition. Journal of Loss Prevention in the Process Industries, 2016, 40, 524-528.	1.7	4
74	Removal of naphthalene by activated carbons from hot gas. Chemical Engineering Journal, 2016, 291, 244-253.	6.6	36
75	Simplified model for the evaluation of the effects of explosions on industrial target. Journal of Loss Prevention in the Process Industries, 2015, 37, 119-123.	1.7	21
76	Minimum Ignition Temperature of layer and cloud dust mixtures. Journal of Loss Prevention in the Process Industries, 2015, 36, 326-334.	1.7	52
77	Theoretical analysis of anomalous explosion behavior for H ₂ /CO/O ₂ /N ₂ and CH ₄ /O ₂ /N ₂ /CO ₂ mixtures in the light of combustion-induced rapid phase transition. International Journal of Hydrogen Energy, 2015, 40, 8239-8247.	3.8	15
78	Vulnerability of industrial facilities to attacks with improvised explosive devices aimed at triggering domino scenarios. Reliability Engineering and System Safety, 2015, 143, 53-62.	5.1	62
79	Seismic damage to pipelines in the framework of Na-Tech risk assessment. Journal of Loss Prevention in the Process Industries, 2015, 33, 159-172.	1.7	48
80	Confined Gas and Dust Explosions. , 2014, , .		1
81	Explosion parameters of wood chip-derived syngas in air. Journal of Loss Prevention in the Process Industries, 2014, 32, 399-403.	1.7	31
82	Seismic vulnerability of gas and liquid buried pipelines. Journal of Loss Prevention in the Process Industries, 2014, 28, 72-78.	1.7	75
83	Numerical modeling of natural gas buried pipelines under seismic shaking. , 2014, , 1129-1134.		1
84	Potential loading damage to industrial storage tanks due to volcanic ash fallout. Natural Hazards, 2013, 66, 939-953.	1.6	20
85	The effect of the hydrogen presence on combustion-induced rapid phase transition of CO/O ₂ /N ₂ mixtures. International Journal of Hydrogen Energy, 2013, 38, 16463-16470.	3.8	17
86	Delineating a new critical region for juvenile myoclonic epilepsy at the 22q11.2 chromosome. Epilepsy and Behavior, 2013, 29, 587-588.	0.9	2
87	Detailed Studies of Domino Scenarios. , 2013, , 229-243.		0
88	Risks associated with volcanic ash fallout from Mt.Etna with reference to industrial filtration systems. Reliability Engineering and System Safety, 2013, 120, 106-110.	5.1	8
89	Seismic vulnerability of natural gas pipelines. Reliability Engineering and System Safety, 2013, 117, 73-80.	5.1	73
90	Towards a new approach for the identification of atypical accident scenarios. Journal of Risk Research, 2013, 16, 337-354.	1.4	25

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91	Overpressure Effects. , 2013, , 43-69.		2
92	Vaginal lactoferrin in asymptomatic patients at low risk for pre-term labour for shortened cervix: Cervical length and interleukin-6 changes. Journal of Obstetrics and Gynaecology, 2013, 33, 144-148.	0.4	7
93	Public awareness promoting new or emerging risks: Industrial accidents triggered by natural hazards (NaTech). Journal of Risk Research, 2013, 16, 469-485.	1.4	54
94	Threshold-Based Approach. , 2013, , 189-207.		2
95	The use of integrals and CFD tools to evaluate the cloud dispersion of flammable and toxic substances leakages. , 2013, , 1889-1894.		1
96	Comparison of the Explosion Thermodynamics of TNT and Black Powder Using Le Chatelier Diagrams. Propellants, Explosives, Pyrotechnics, 2012, 37, 724-731.	1.0	18
97	Reconsidering the flammability diagram for CH ₄ /O ₂ /N ₂ and CH ₄ /O ₂ /CO ₂ mixtures in light of combustion-induced Rapid Phase Transition. Chemical Engineering Science, 2012, 84, 142-147.	1.9	53
98	Analysis of an Explosion in a Wool-Processing Plant. Industrial & Engineering Chemistry Research, 2012, 51, 7713-7718.	1.8	12
99	Explosions of Syngas/CO ₂ Mixtures in Oxygen-Enriched Air. Industrial & Engineering Chemistry Research, 2012, 51, 7671-7678.	1.8	56
100	Combustion-Induced Rapid-Phase Transition (cRPT) in CH ₄ /CO ₂ /O ₂ -Enriched Mixtures. Energy & Fuels, 2012, 26, 4799-4803.	2.5	10
101	Supporting the selection of process and plant design options by Inherent Safety KPIs. Journal of Loss Prevention in the Process Industries, 2012, 25, 830-842.	1.7	53
102	Effect of diluents on rapid phase transition of water induced by combustion. AIChE Journal, 2012, 58, 2810-2819.	1.8	41
103	Lessons Learned from Toulouse and Buncefield Disasters: From Risk Analysis Failures to the Identification of Atypical Scenarios Through a Better Knowledge Management. Risk Analysis, 2012, 32, 1404-1419.	1.5	67
104	Explosion behavior of hydrogen-methane/air mixtures. Journal of Loss Prevention in the Process Industries, 2012, 25, 443-447.	1.7	161
105	Social Networks, Civic Participation, and Young People. , 2012, , 187-205.		7
106	Industrial accidents triggered by natural hazards: an emerging risk issue. Natural Hazards and Earth System Sciences, 2011, 11, 921-929.	1.5	94
107	Anomalous behavior during explosions of CH ₄ in oxygen-enriched air. Combustion and Flame, 2011, 158, 2214-2219.	2.8	53
108	Dust/gas mixtures explosion regimes. Powder Technology, 2011, 205, 81-86.	2.1	102

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109	Industrial hazards associated with the eruption of Etna. , 2011, , 2945-2952.		1
110	Experimental analysis of gas explosions at non-atmospheric initial conditions in cylindrical vessel. Chemical Engineering Research and Design, 2010, 88, 341-349.	2.7	43
111	Case study of a nylon fibre explosion: An example of explosion risk in a textile plant. Journal of Loss Prevention in the Process Industries, 2010, 23, 106-111.	1.7	33
112	CFD simulation of pressure piling. Journal of Loss Prevention in the Process Industries, 2010, 23, 498-506.	1.7	25
113	Emerging Risks in the Biodiesel Production by Transesterification of Virgin and Renewable Oils. Energy & Fuels, 2010, 24, 6103-6109.	2.5	20
114	The development of an inherent safety approach to the prevention of domino accidents. Accident Analysis and Prevention, 2009, 41, 1216-1227.	3.0	112
115	Explosion behavior of CH ₄ /O ₂ /N ₂ /CO ₂ and H ₂ /O ₂ /N ₂ /CO ₂ mixtures. International Journal of Hydrogen Energy, 2009, 34, 6970-6978.	3.8	108
116	Acoustic analysis of blast waves produced by rapid phase transition of LNG released on water. Safety Science, 2009, 47, 515-521.	2.6	34
117	Combined effects of initial pressure and turbulence on explosions of hydrogen-enriched methane/air mixtures. Journal of Loss Prevention in the Process Industries, 2009, 22, 607-613.	1.7	83
118	Risk assessment and early warning systems for industrial facilities in seismic zones. Reliability Engineering and System Safety, 2009, 94, 1577-1584.	5.1	83
119	The design of duct venting of gas explosions. Process Safety Progress, 2008, 27, 164-172.	0.4	11
120	Venting of gas explosion through relief ducts: Interaction between internal and external explosions. Journal of Hazardous Materials, 2008, 155, 358-368.	6.5	96
121	Extending the Quantitative Assessment of Industrial Risks to Earthquake Effects. Risk Analysis, 2008, 28, 1231-1246.	1.5	88
122	Prevention of domino effect: From active and passive strategies to inherently safer design. Journal of Hazardous Materials, 2007, 139, 209-219.	6.5	116
123	The role of recirculation loop on the risk of ethoxylation processes. Journal of Loss Prevention in the Process Industries, 2007, 20, 238-250.	1.7	4
124	The evaluation of risks of ethoxylation reactors. Process Safety Progress, 2007, 26, 304-311.	0.4	3
125	Vent Sizing Criteria for Partial Volume Deflagration. Chemical Engineering Research and Design, 2007, 85, 549-558.	2.7	4
126	Escalation thresholds in the assessment of domino accidental events. Journal of Hazardous Materials, 2006, 129, 1-21.	6.5	277

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127	CFD analysis of gas explosions vented through relief pipes. Journal of Hazardous Materials, 2006, 137, 654-665.	6.5	118
128	A fuzzy set analysis to estimate loss intensity following blast wave interaction with process equipment. Journal of Loss Prevention in the Process Industries, 2006, 19, 343-352.	1.7	33
129	The analysis of domino accidents triggered by vapor cloud explosions. Reliability Engineering and System Safety, 2005, 90, 271-284.	5.1	63
130	Quantitative risk analysis of oil storage facilities in seismic areas. Journal of Hazardous Materials, 2005, 123, 61-69.	6.5	107
131	Predicting pressure piling by semi-empirical correlations. Fire Safety Journal, 2005, 40, 282-298.	1.4	17
132	The mitigation of pressure piling by divergent connections. Process Safety Progress, 2005, 24, 310-315.	0.4	10
133	The quantitative assessment of domino effects caused by overpressure. Journal of Hazardous Materials, 2004, 107, 67-80.	6.5	175
134	The quantitative assessment of domino effect caused by overpressure. Journal of Hazardous Materials, 2004, 107, 81-94.	6.5	65
135	Threshold values for domino effects caused by blast wave interaction with process equipment. Journal of Loss Prevention in the Process Industries, 2004, 17, 437-447.	1.7	62
136	Estimation of Damage to Equipment Caused by Blast Waves by Means of Fuzzy Sets. , 2004, , 3653-3658.		1
137	Seismic risk of atmospheric storage tanks in the framework of quantitative risk analysis. Journal of Loss Prevention in the Process Industries, 2003, 16, 403-409.	1.7	130
138	Hazard of Pressurized Tanks Involved in Fires. Industrial & Engineering Chemistry Research, 2003, 42, 1804-1812.	1.8	26
139	Numerical simulation of turbulent gas flames in tubes. Journal of Hazardous Materials, 2002, 95, 233-247.	6.5	60
140	Numerical simulation of gas explosions in linked vessels. Journal of Loss Prevention in the Process Industries, 1999, 12, 189-194.	1.7	56
141	Post-Accident Analysis of Vapour Cloud Explosions in Fuel Storage Areas. Chemical Engineering Research and Design, 1999, 77, 360-365.	2.7	32
142	Simulation of VCEs by CFD modelling: an analysis of sensitivity. Journal of Loss Prevention in the Process Industries, 1998, 11, 169-175.	1.7	22
143	Assessing the Cost of Medical Care of Respiratory Diseases Caused by Indoor Pollution. Indoor and Built Environment, 1996, 5, 303-310.	1.5	0
144	Assessing the Cost of Medical Care of Respiratory Diseases Caused by Indoor Pollution. Indoor and Built Environment, 1996, 5, 303-310.	1.5	1

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145	Blast Wave Damage to Process Equipment as a Trigger of Domino Effects. , 0, , 101-113.		1