

Felipe Muñoz-Giraldo

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

906
citations

430442

18
h-index

500791

28
g-index

50
all docs

50
docs citations

50
times ranked

783
citing authors

#	ARTICLE	IF	CITATIONS
1	Reliability assessments of corroded pipelines based on internal pressure – A review. <i>Engineering Failure Analysis</i> , 2019, 98, 190-214.	1.8	116
2	Dust explosions: CFD modeling as a tool to characterize the relevant parameters of the dust dispersion. <i>Chemical Engineering Science</i> , 2013, 104, 103-116.	1.9	57
3	Review of Existing QSAR/QSPR Models Developed for Properties Used in Hazardous Chemicals Classification System. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 16101-16115.	1.8	55
4	Risk assessment of the ignitability and explosivity of aluminum nanopowders. <i>Chemical Engineering Research and Design</i> , 2012, 90, 304-310.	2.7	45
5	Systematic literature review and qualitative meta-analysis of Natech research in the past four decades. <i>Safety Science</i> , 2019, 116, 58-77.	2.6	45
6	Identification of the main exposure scenarios in the production of CNT-polymer nanocomposites by melt-moulding process. <i>Journal of Cleaner Production</i> , 2013, 53, 22-36.	4.6	38
7	Risk analysis in Natech events: State of the art. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 64, 104071.	1.7	33
8	Integrity assessment of corroded pipelines using dynamic segmentation and clustering. <i>Chemical Engineering Research and Design</i> , 2019, 128, 284-294.	2.7	32
9	Development of parametric fragility curves for storage tanks: A Natech approach. <i>Reliability Engineering and System Safety</i> , 2019, 189, 1-10.	5.1	29
10	Modeling of pipeline corrosion degradation mechanism with a Levy Process based on ILI (In-Line) inspections. <i>International Journal of Pressure Vessels and Piping</i> , 2019, 172, 261-271.	1.2	29
11	Analysis of domino effect in pipelines. <i>Journal of Hazardous Materials</i> , 2015, 298, 210-220.	6.5	28
12	The effects of extreme winds on atmospheric storage tanks. <i>Reliability Engineering and System Safety</i> , 2020, 195, 106686.	5.1	26
13	Pattern recognition techniques implementation on data from In-Line Inspection (ILI). <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 44, 735-747.	1.7	22
14	Quantitative-mechanistic model for assessing landslide probability and pipeline failure probability due to landslides. <i>Engineering Geology</i> , 2017, 222, 212-224.	2.9	20
15	Data driven methodology for model selection in flow pattern prediction. <i>Heliyon</i> , 2019, 5, e02718.	1.4	20
16	Explosion severity behavior of micro/nano-sized aluminum dust in the 20L sphere: Influence of the particle size distribution (PSD) and nozzle geometry. <i>Chemical Engineering Research and Design</i> , 2021, 152, 1-13.	2.7	20
17	Biliary Complications in Orthotopic Liver Transplantation Using Choledochocholedochostomy with a T-tube. <i>Transplantation Proceedings</i> , 2012, 44, 1554-1556.	0.3	19
18	Proposal of a new injection nozzle to improve the experimental reproducibility of dust explosion tests. <i>Powder Technology</i> , 2018, 328, 54-74.	2.1	19

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19	Experimental characterisation of two fully-developed enclosure fire regimes. <i>Fire Safety Journal</i> , 2016, 79, 10-19.	1.4	17
20	Earthquake-related Natech risk assessment using a Bayesian belief network model. <i>Structure and Infrastructure Engineering</i> , 2019, 15, 725-739.	2.0	17
21	Normative barriers improvement through the MADS/MOSAR methodology. <i>Safety Science</i> , 2012, 50, 1502-1512.	2.6	15
22	Probabilistic approach of a flow pattern map for horizontal, vertical, and inclined pipes. <i>Oil and Gas Science and Technology</i> , 2019, 74, 67.	1.4	15
23	A condition-based dynamic segmentation of large systems using a Changepoints algorithm: A corroding pipeline case. <i>Structural Safety</i> , 2020, 84, 101912.	2.8	15
24	CFD as an approach to understand flammable dust 20 L standard test: Effect of the ignition time on the fluid flow. <i>AIChE Journal</i> , 2018, 64, 42-54.	1.8	13
25	Experimental and CFD-DEM study of the dispersion and combustion of wheat starch and carbon-black particles during the standard 20L sphere test. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 63, 103995.	1.7	13
26	Numerical study of the influence of particle reaction and radiative heat transfer on the flame velocity of gas/nanoparticles hybrid mixtures. <i>Chemical Engineering Research and Design</i> , 2018, 118, 211-226.	2.7	12
27	CFD-DPM and experimental study of the dynamics of wheat starch powder/pyrolysis gases hybrid mixtures in the 20-L Sphere. <i>Powder Technology</i> , 2020, 372, 638-658.	2.1	12
28	Pressure gradient correlations analysis for liquid-liquid flow in horizontal pipes. <i>Journal of Petroleum Science and Engineering</i> , 2018, 169, 683-704.	2.1	11
29	Process safety part of the engineering education DNA. <i>Education for Chemical Engineers</i> , 2019, 27, 43-53.	2.8	11
30	Statistical Soil Characterization of an Underground Corroded Pipeline Using In-Line Inspections. <i>Metals</i> , 2021, 11, 292.	1.0	11
31	Relative permittivity estimation of wheat starch: A critical property for understanding electrostatic hazards. <i>Journal of Hazardous Materials</i> , 2019, 368, 228-233.	6.5	9
32	Analysis of crater formation in buried NG pipelines: A survey based on past accidents and evaluation of domino effect. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 58, 124-140.	1.7	9
33	Kletz's legacy for developing countries: Simple systems based on inherently safer design. <i>Journal of Loss Prevention in the Process Industries</i> , 2012, 25, 843-847.	1.7	8
34	Analysis of the explosion behaviour of wheat starch/pyrolysis gases hybrid mixtures through experimentation and CFD-DPM simulations. <i>Powder Technology</i> , 2020, 374, 330-347.	2.1	8
35	Matching of corroded defects in onshore pipelines based on In-Line Inspections and Voronoi partitions. <i>Reliability Engineering and System Safety</i> , 2022, 223, 108520.	5.1	8
36	Does the Transjugular Intrahepatic Portosystemic Influence the Outcome of Liver Transplantation?. <i>Transplantation Proceedings</i> , 2012, 44, 1505-1507.	0.3	6

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37	Optimal sectioning of hydrocarbon transport pipeline by volume minimization, environmental and social vulnerability assessment. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 44, 681-689.	1.7	6
38	Prediction of a Small-Scale Pool Fire with FireFoam. <i>International Journal of Chemical Engineering</i> , 2017, 2017, 1-12.	1.4	6
39	Crater formation by the rupture of underground natural gas pipelines: A probabilistic-based model. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 54, 224-239.	2.1	6
40	Application of CFD on the sensitivity analyses of some parameters of the modified Hartmann tube. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 36, 296-307.	1.7	5
41	Emerging Natech risk management in Colombia: A survey of governmental organizations. <i>Safety Science</i> , 2020, 128, 104777.	2.6	5
42	Advances and Gaps in Natech Quantitative Risk Analysis. <i>Processes</i> , 2021, 9, 40.	1.3	5
43	Model for optimal sectioning of hydrocarbon transportation pipelines by minimization of the expected economic losses. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 62, 103939.	1.7	3
44	Soot production modelling for operational computational fluid dynamics fire simulations. <i>Journal of Fire Sciences</i> , 2020, 38, 284-308.	0.9	3
45	Impedance characterization of wheat starch at various water contents. <i>Powder Technology</i> , 2019, 346, 425-432.	2.1	2
46	Shortest path algorithm for optimal sectioning of hydrocarbon transport pipeline. <i>IFAC-PapersOnLine</i> , 2016, 49, 532-537.	0.5	1
47	APPROACH TO A RELIABLE SOLUTION STRATEGY FOR PERFORMING PHASE EQUILIBRIUM CALCULATIONS USING MINLP OPTIMIZATION. <i>Latin American Applied Research</i> , 2014, 44, 63-70.	0.2	1
48	Clustering Analysis of a Colombian Toxicological Database. <i>Human and Ecological Risk Assessment (HERA)</i> , 2014, 20, 1058-1076.	1.7	0
49	Carbon nanotubes risks, safety and occupational health at research laboratories. , 2014, , .		0
50	Prediction of a methane circular pool fire with fireFoam. <i>MATEC Web of Conferences</i> , 2018, 240, 05026.	0.1	0