Felipe MuÃ±oz-Giraldo

List of Publications by Year
in descending order

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	Matching of corroded defects in onshore pipelines based on In-Line Inspections and Voronoi partitions. Reliability Engineering and System Safety, 2022, 223, 108520.	5.1	8
2	Statistical Soil Characterization of an Underground Corroded Pipeline Using In-Line Inspections. Metals, 2021, 11, 292.	1.0	11
3	Explosion severity behavior of micro/nano-sized aluminum dust in the 20L sphere: Influence of the particle size distribution (PSD) and nozzle geometry. Chemical Engineering Research and Design, 2021, 152, 1-13.	2.7	20
4	Advances and Gaps in Natech Quantitative Risk Analysis. Processes, 2021, 9, 40.	1.3	5
5	The effects of extreme winds on atmospheric storage tanks. Reliability Engineering and System Safety, 2020, 195, 106686.	5.1	26
6	Experimental and CFD-DEM study of the dispersion and combustion of wheat starch and carbon-black particles during the standard 20L sphere test. Journal of Loss Prevention in the Process Industries, 2020, 63, 103995.	1.7	13
7	A condition-based dynamic segmentation of large systems using a Changepoints algorithm: A corroding pipeline case. Structural Safety, 2020, 84, 101912.	2.8	15
8	Analysis of the explosion behaviour of wheat starch/pyrolysis gases hybrid mixtures through experimentation and CFD-DPM simulations. Powder Technology, 2020, 374, 330-347.	2.1	8
9	Emerging Natech risk management in Colombia: A survey of governmental organizations. Safety Science, 2020, 128, 104777.	2.6	5
10	CFD-DPM and experimental study of the dynamics of wheat starch powder/pyrolysis gases hybrid mixtures in the 20-L Sphere. Powder Technology, 2020, 372, 638-658.	2.1	12
11	Soot production modelling for operational computational fluid dynamics fire simulations. Journal of Fire Sciences, 2020, 38, 284-308.	0.9	3
12	Risk analysis in Natech events: State of the art. Journal of Loss Prevention in the Process Industries, 2020, 64, 104071.	1.7	33
13	Model for optimal sectioning of hydrocarbon transportation pipelines by minimization of the expected economic losses. Journal of Loss Prevention in the Process Industries, 2019, 62, 103939.	1.7	3
14	Probabilistic approach of a flow pattern map for horizontal, vertical, and inclined pipes. Oil and Gas Science and Technology, 2019, 74, 67.	1.4	15
15	Relative permittivity estimation of wheat starch: A critical property for understanding electrostatic hazards. Journal of Hazardous Materials, 2019, 368, 228-233.	6.5	9
16	Integrity assessment of corroded pipelines using dynamic segmentation and clustering. Chemical Engineering Research and Design, 2019, 128, 284-294.	2.7	32
17	Development of parametric fragility curves for storage tanks: A Natech approach. Reliability Engineering and System Safety, 2019, 189, 1-10.	5.1	29
18	Systematic literature review and qualitative meta-analysis of Natech research in the past four decades. Safety Science, 2019, 116, 58-77.	2.6	45

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19	Modeling of pipeline corrosion degradation mechanism with a Lévy Process based on ILI (In-Line) inspections. International Journal of Pressure Vessels and Piping, 2019, 172, 261-271.	1.2	29
20	Process safety part of the engineering education DNA. Education for Chemical Engineers, 2019, 27, 43-53.	2.8	11
21	Earthquake-related Natech risk assessment using a Bayesian belief network model. Structure and Infrastructure Engineering, 2019, 15, 725-739.	2.0	17
22	Reliability assessments of corroded pipelines based on internal pressure – A review. Engineering Failure Analysis, 2019, 98, 190-214.	1.8	116
23	Analysis of crater formation in buried NG pipelines: A survey based on past accidents and evaluation of domino effect. Journal of Loss Prevention in the Process Industries, 2019, 58, 124-140.	1.7	9
24	Impedance characterization of wheat starch at various water contents. Powder Technology, 2019, 346, 425-432.	2.1	2
25	Data driven methodology for model selection in flow pattern prediction. Heliyon, 2019, 5, e02718.	1.4	20
26	Proposal of a new injection nozzle to improve the experimental reproducibility of dust explosion tests. Powder Technology, 2018, 328, 54-74.	2.1	19
27	Pressure gradient correlations analysis for liquid-liquid flow in horizontal pipes. Journal of Petroleum Science and Engineering, 2018, 169, 683-704.	2.1	11
28	Crater formation by the rupture of underground natural gas pipelines: A probabilistic-based model. Journal of Natural Gas Science and Engineering, 2018, 54, 224-239.	2.1	6
29	CFD as an approach to understand flammable dust 20 L standard test: Effect of the ignition time on the fluid flow. AICHE Journal, 2018, 64, 42-54.	1.8	13
30	Prediction of a methane circular pool fire with fireFoam. MATEC Web of Conferences, 2018, 240, 05026.	0.1	0
31	Numerical study of the influence of particle reaction and radiative heat transfer on the flame velocity of gas/nanoparticles hybrid mixtures. Chemical Engineering Research and Design, 2018, 118, 211-226.	2.7	12
32	Quantitative-mechanistic model for assessing landslide probability and pipeline failure probability due to landslides. Engineering Geology, 2017, 222, 212-224.	2.9	20
33	Prediction of a Small-Scale Pool Fire with FireFoam. International Journal of Chemical Engineering, 2017, 2017, 1-12.	1.4	6
34	Optimal sectioning of hydrocarbon transport pipeline by volume minimization, environmental and social vulnerability assessment. Journal of Loss Prevention in the Process Industries, 2016, 44, 681-689.	1.7	6
35	Shortest path algorithm for optimal sectioning of hydrocarbon transport pipeline. IFAC-PapersOnLine, 2016, 49, 532-537.	0.5	1
36	Pattern recognition techniques implementation on data from In-Line Inspection (ILI). Journal of Loss Prevention in the Process Industries, 2016, 44, 735-747.	1.7	22

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37	Experimental characterisation of two fully-developed enclosure fire regimes. Fire Safety Journal, 2016, 79, 10-19.	1.4	17
38	Application of CFD on the sensitivity analyses of some parameters of the modified Hartmann tube. Journal of Loss Prevention in the Process Industries, 2015, 36, 296-307.	1.7	5
39	Analysis of domino effect in pipelines. Journal of Hazardous Materials, 2015, 298, 210-220.	6.5	28
40	Clustering Analysis of a Colombian Toxicological Database. Human and Ecological Risk Assessment (HERA), 2014, 20, 1058-1076.	1.7	0
41	Carbon nanotubes risks, safety and occupational health at research laboratories. , 2014, , .		0
42	APPROACH TO A RELIABLE SOLUTION STRATEGY FOR PERFORMING PHASE EQUILIBRIUM CALCULATIONS USING MINLP OPTIMIZATION. Latin American Applied Research, 2014, 44, 63-70.	0.2	1
43	Dust explosions: CFD modeling as a tool to characterize the relevant parameters of the dust dispersion. Chemical Engineering Science, 2013, 104, 103-116.	1.9	57
44	Identification of the main exposure scenarios in the production of CNT-polymer nanocomposites by melt-moulding process. Journal of Cleaner Production, 2013, 53, 22-36.	4.6	38
45	Risk assessment of the ignitability and explosivity of aluminum nanopowders. Chemical Engineering Research and Design, 2012, 90, 304-310.	2.7	45
46	Review of Existing QSAR/QSPR Models Developed for Properties Used in Hazardous Chemicals Classification System. Industrial & Engineering Chemistry Research, 2012, 51, 16101-16115.	1.8	55
47	Biliary Complications in Orthotopic Liver Transplantation Using Choledochocholedochostomy with a T-tube. Transplantation Proceedings, 2012, 44, 1554-1556.	0.3	19
48	Does the Transjugular Intrahepatic Portosystemic Influence the Outcome of Liver Transplantation?. Transplantation Proceedings, 2012, 44, 1505-1507.	0.3	6
49	Kletz's legacy for developing countries: Simple systems based on inherently safer design. Journal of Loss Prevention in the Process Industries, 2012, 25, 843-847.	1.7	8
50	Normative barriers improvement through the MADS/MOSAR methodology. Safety Science, 2012, 50, 1502-1512.	2.6	15