Faisal Khan

List of Publications by Year
in descending order

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622 papers	26,856 citations	6592 79 h-index	15218 126 g-index
632 all docs	632 docs citations	632 times ranked	12074 citing authors

#	Article	IF	Citations
1	A review of drought indices. Environmental Reviews, 2011, 19, 333-349.	2.1	796
2	An overview and analysis of site remediation technologies. Journal of Environmental Management, 2004, 71, 95-122.	3.8	692
3	Safety analysis in process facilities: Comparison of fault tree and Bayesian network approaches. Reliability Engineering and System Safety, 2011, 96, 925-932.	5.1	552
4	Dynamic safety analysis of process systems by mapping bow-tie into Bayesian network. Chemical Engineering Research and Design, 2013, 91, 46-53.	2.7	429
5	Methods and models in process safety and risk management: Past, present and future. Chemical Engineering Research and Design, 2015, 98, 116-147.	2.7	388
6	Quantitative risk analysis of offshore drilling operations: A Bayesian approach. Safety Science, 2013, 57, 108-117.	2.6	309
7	Modelling of pitting corrosion in marine and offshore steel structures â€“ A technical review. Journal of Loss Prevention in the Process Industries, 2015, 37, 39-62.	1.7	305
8	Risk-based maintenance (RBM): a quantitative approach for maintenance/inspection scheduling and planning. Journal of Loss Prevention in the Process Industries, 2003, 16, 561-573.	1.7	283
9	Dynamic risk analysis using bow-tie approach. Reliability Engineering and System Safety, 2012, 104, 36-44.	5.1	280
10	Major accidents in process industries and an analysis of causes and consequences. Journal of Loss Prevention in the Process Industries, 1999, 12, 361-378.	1.7	267
11	Recent development in electrocatalysts for hydrogen production through water electrolysis. International Journal of Hydrogen Energy, 2021, 46, 32284-32317.	3.8	236
12	Techniques and methodologies for risk analysis in chemical process industries. Journal of Loss Prevention in the Process Industries, 1998, 11, 261-277.	1.7	229
13	Improved DEMATEL methodology for effective safety management decision-making. Safety Science, 2020, 127, 104705.	2.6	208
14	Towards dynamic risk analysis: A review of the risk assessment approach and its limitations in the chemical process industry. Safety Science, 2016, 89, 77-93.	2.6	206
15	Domino Effect Analysis Using Bayesian Networks. Risk Analysis, 2013, 33, 292-306.	1.5	204
16	Models for domino effect analysis in chemical process industries. Process Safety Progress, 1998, 17, 107-123.	0.4	201
17	Dynamic risk assessment using failure assessment and Bayesian theory. Journal of Loss Prevention in the Process Industries, 2009, 22, 600-606.	1.7	195
18	Dynamic safety risk analysis of offshore drilling. Journal of Loss Prevention in the Process Industries, 2014, 30, 74-85.	1.7	184

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19	Fault and Event Tree Analyses for Process Systems Risk Analysis: Uncertainty Handling Formulations. Risk Analysis, 2011, 31, 86-107.	1.5	182
20	Dust explosions: A threat to the process industries. Chemical Engineering Research and Design, 2015, 98, 57-71.	2.7	167
21	Analyzing system safety and risks under uncertainty using a bow-tie diagram: An innovative approach. Chemical Engineering Research and Design, 2013, 91, 1-18.	2.7	166
22	Marine transportation risk assessment using Bayesian Network: Application to Arctic waters. Ocean Engineering, 2018, 159, 422-436.	1.9	164
23	Risk analysis of deepwater drilling operations using Bayesian network. Journal of Loss Prevention in the Process Industries, 2015, 38, 11-23.	1.7	161
24	Integrated inherent safety index (I2SI): A tool for inherent safety evaluation. Process Safety Progress, 2004, 23, 136-148.	0.4	157
25	Review of hydrogen safety during storage, transmission, and applications processes. Journal of Loss Prevention in the Process Industries, 2021, 72, 104569.	1.7	153
26	SHIPP methodology: Predictive accident modeling approach. Part I: Methodology and model description. Chemical Engineering Research and Design, 2011, 89, 151-164.	2.7	150
27	Development of a risk-based maintenance (RBM) strategy for a power-generating plant. Journal of Loss Prevention in the Process Industries, 2005, 18, 69-81.	1.7	147
28	Safety and risk analysis of managed pressure drilling operation using Bayesian network. Safety Science, 2015, 76, 133-144.	2.6	147
29	I2SI: A comprehensive quantitative tool for inherent safety and cost evaluation. Journal of Loss Prevention in the Process Industries, 2005, 18, 310-326.	1.7	145
30	Water quality evaluation and trend analysis in selected watersheds of the Atlantic region of Canada. Environmental Monitoring and Assessment, 2003, 88, 221-248.	1.3	137
31	Multivariate hazard identification and ranking system. Process Safety Progress, 1998, 17, 157-170.	0.4	136
32	A hybrid model for human factor analysis in process accidents: FBN-HFACS. Journal of Loss Prevention in the Process Industries, 2019, 57, 142-155.	1.7	135
33	Arctic shipping accident scenario analysis using Bayesian Network approach. Ocean Engineering, 2017, 133, 224-230.	1.9	134
34	How to Make Inherent Safety Practice a Reality. Canadian Journal of Chemical Engineering, 2003, 81, 2-16.	0.9	133
35	An assessment of the likelihood of occurrence, and the damage potential of domino effect (chain of) Tj ETQq1 1 0.784314 rgBT /Over 2001, 14, 283-306.	1.7	131
36	Corrosion induced failure analysis of subsea pipelines. Reliability Engineering and System Safety, 2017, 159, 214-222.	5.1	130

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37	Application of inherent safety principles to dust explosion prevention and mitigation. Chemical Engineering Research and Design, 2009, 87, 35-39.	2.7	129
38	Dynamic risk management: a contemporary approach to process safety management. Current Opinion in Chemical Engineering, 2016, 14, 9-17.	3.8	129
39	An operational risk analysis tool to analyze marine transportation in Arctic waters. Reliability Engineering and System Safety, 2018, 169, 485-502.	5.1	126
40	Inherent safety in offshore oil and gas activities: a review of the present status and future directions. Journal of Loss Prevention in the Process Industries, 2002, 15, 279-289.	1.7	122
41	Modelling of BP Texas City refinery accident using dynamic risk assessment approach. Chemical Engineering Research and Design, 2010, 88, 191-199.	2.7	122
42	Methodology for computer aided fuzzy fault tree analysis. Chemical Engineering Research and Design, 2009, 87, 217-226.	2.7	120
43	A state-of-the-art review of fate and transport of oil spills in open and ice-covered water. Ocean Engineering, 2016, 119, 233-248.	1.9	119
44	Process simulation and life cycle analysis of biodiesel production. Renewable Energy, 2016, 85, 945-952.	4.3	118
45	DOMIFFECT (DOMIno eFFECT): user-friendly software for domino effect analysis. Environmental Modelling and Software, 1998, 13, 163-177.	1.9	117
46	On the application of near accident data to risk analysis of major accidents. Reliability Engineering and System Safety, 2014, 126, 116-125.	5.1	116
47	A data-driven Bayesian network learning method for process fault diagnosis. Chemical Engineering Research and Design, 2021, 150, 110-122.	2.7	116
48	Risk-based design of process systems using discrete-time Bayesian networks. Reliability Engineering and System Safety, 2013, 109, 5-17.	5.1	114
49	Review and analysis of fire and explosion accidents in maritime transportation. Ocean Engineering, 2018, 158, 350-366.	1.9	113
50	A Bibliometric Review and Analysis of Data-Driven Fault Detection and Diagnosis Methods for Process Systems. Industrial & Engineering Chemistry Research, 2018, 57, 10719-10735.	1.8	111
51	A bibliometric review of process safety and risk analysis. Chemical Engineering Research and Design, 2019, 126, 366-381.	2.7	111
52	Process system fault detection and diagnosis using a hybrid technique. Chemical Engineering Science, 2018, 189, 191-211.	1.9	110
53	Assessment of domino effect: State of the art and research Needs. Reliability Engineering and System Safety, 2015, 143, 3-18.	5.1	107
54	Root Cause Diagnosis of Process Fault Using KPCA and Bayesian Network. Industrial & Engineering Chemistry Research, 2017, 56, 2054-2070.	1.8	104

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55	Failure probability analysis of the urban buried gas pipelines using Bayesian networks. Chemical Engineering Research and Design, 2017, 111, 678-686.	2.7	104
56	The role of human error in risk analysis: Application to pre- and post-maintenance procedures of process facilities. Reliability Engineering and System Safety, 2013, 119, 251-258.	5.1	102
57	Life Cycle Analysis of windâ€“fuel cell integrated system. Renewable Energy, 2005, 30, 157-177.	4.3	101
58	A Dynamic Bayesian Network model for ship-ice collision risk in the Arctic waters. Safety Science, 2020, 130, 104858.	2.6	101
59	Dynamic availability assessment of safety critical systems using a dynamic Bayesian network. Reliability Engineering and System Safety, 2018, 178, 108-117.	5.1	99
60	Fault detection and pathway analysis using a dynamic Bayesian network. Chemical Engineering Science, 2019, 195, 777-790.	1.9	99
61	Offshore produced water management: A review of current practice and challenges in harsh/Arctic environments. Marine Pollution Bulletin, 2016, 104, 7-19.	2.3	98
62	Risk-based maintenance of ethylene oxide production facilities. Journal of Hazardous Materials, 2004, 108, 147-159.	6.5	97
63	Handling and updating uncertain information in bow-tie analysis. Journal of Loss Prevention in the Process Industries, 2012, 25, 8-19.	1.7	97
64	Real-time fault diagnosis using knowledge-based expert system. Chemical Engineering Research and Design, 2008, 86, 55-71.	2.7	96
65	Risk-based process safety assessment and control measures design for offshore process facilities. Journal of Hazardous Materials, 2002, 94, 1-36.	6.5	93
66	Human reliability assessment during offshore emergency conditions. Safety Science, 2013, 59, 19-27.	2.6	93
67	Knowledge, perceptions and myths regarding infertility among selected adult population in Pakistan: a cross-sectional study. BMC Public Health, 2011, 11, 760.	1.2	92
68	Determination of human error probabilities for offshore platform musters. Journal of Loss Prevention in the Process Industries, 2005, 18, 488-501.	1.7	90
69	Handling data uncertainties in event tree analysis. Chemical Engineering Research and Design, 2009, 87, 283-292.	2.7	90
70	Analytical simulation and PROFAT II: a new methodology and a computer automated tool for fault tree analysis in chemical process industries. Journal of Hazardous Materials, 2000, 75, 1-27.	6.5	88
71	SHIPP methodology: Predictive accident modeling approach. Part II. Validation with case study. Chemical Engineering Research and Design, 2011, 89, 75-88.	2.7	88
72	Scientific data exchange: a schema for HDF5-based storage of raw and analyzed data. Journal of Synchrotron Radiation, 2014, 21, 1224-1230.	1.0	86

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73	Risk Analysis of Dust Explosion Scenarios Using Bayesian Networks. Risk Analysis, 2015, 35, 278-291.	1.5	85
74	Dynamic process fault detection and diagnosis based on a combined approach of hidden Markov and Bayesian network model. Chemical Engineering Science, 2019, 201, 82-96.	1.9	85
75	Risk-based process plant design considering inherent safety. Safety Science, 2014, 70, 438-464.	2.6	84
76	Vulnerability analysis of process plants subject to domino effects. Reliability Engineering and System Safety, 2016, 154, 127-136.	5.1	84
77	HEPI: A new tool for human error probability calculation for offshore operation. Safety Science, 2006, 44, 313-334.	2.6	83
78	Safety assessment in plant layout design using indexing approach: Implementing inherent safety perspective. Journal of Hazardous Materials, 2008, 160, 100-109.	6.5	83
79	Analysis of pitting corrosion on steel under insulation in marine environments. Journal of Loss Prevention in the Process Industries, 2013, 26, 1466-1483.	1.7	83
80	GreenPro-I: a risk-based life cycle assessment and decision-making methodology for process plant design. Environmental Modelling and Software, 2002, 17, 669-692.	1.9	81
81	Moderation of dust explosions. Journal of Loss Prevention in the Process Industries, 2007, 20, 675-687.	1.7	81
82	Risk assessment of offshore crude oil pipeline failure. Journal of Loss Prevention in the Process Industries, 2015, 37, 101-109.	1.7	81
83	Dynamic hazard identification and scenario mapping using Bayesian network. Chemical Engineering Research and Design, 2017, 105, 143-155.	2.7	81
84	Modelling an integrated impact of fire, explosion and combustion products during transitional events caused by an accidental release of LNG. Chemical Engineering Research and Design, 2019, 128, 259-272.	2.7	81
85	Risk analysis of a typical chemical industry using ORA procedure. Journal of Loss Prevention in the Process Industries, 2001, 14, 43-59.	1.7	80
86	Processing of rock core microtomography images: Using seven different machine learning algorithms. Computers and Geosciences, 2016, 86, 120-128.	2.0	80
87	A deep learning model for process fault prognosis. Chemical Engineering Research and Design, 2021, 154, 467-479.	2.7	80
88	Human Error Probability Assessment During Maintenance Activities of Marine Systems. Safety and Health at Work, 2018, 9, 42-52.	0.3	79
89	Risk-based maintenance (RBM): A new approach for process plant inspection and maintenance. Process Safety Progress, 2004, 23, 252-265.	0.4	78
90	Risk-based maintenance planning of subsea pipelines through fatigue crack growth monitoring. Engineering Failure Analysis, 2017, 79, 928-939.	1.8	78

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91	Analysis on accident-causing factors of urban buried gas pipeline network by combining DEMATEL, ISM and BN methods. Journal of Loss Prevention in the Process Industries, 2019, 61, 49-57.	1.7	77
92	An integrated approach for fire and explosion consequence modelling. Fire Safety Journal, 2013, 61, 324-337.	1.4	76
93	Explosibility of micron- and nano-size titanium powders. Journal of Loss Prevention in the Process Industries, 2013, 26, 1646-1654.	1.7	76
94	An integrated method for human error probability assessment during the maintenance of offshore facilities. Chemical Engineering Research and Design, 2015, 94, 172-179.	2.7	76
95	Dynamic domino effect risk assessment using Petri-nets. Chemical Engineering Research and Design, 2019, 124, 308-316.	2.7	76
96	Occupational accident modelsâ€"Where have we been and where are we going?. Journal of Loss Prevention in the Process Industries, 2006, 19, 664-682.	1.7	75
97	Safety assessment in plant layout design using indexing approach: Implementing inherent safety perspective. Journal of Hazardous Materials, 2008, 160, 110-121.	6.5	75
98	Accident modelling and analysis in process industries. Journal of Loss Prevention in the Process Industries, 2014, 32, 319-334.	1.7	75
99	Precursor-based hierarchical Bayesian approach for rare event frequency estimation: A case of oil spill accidents. Chemical Engineering Research and Design, 2013, 91, 333-342.	2.7	74
100	Incorporation of inherent safety principles in process safety management. Process Safety Progress, 2007, 26, 333-346.	0.4	73
101	3D simulation of the permeability tensor in a soil aggregate on basis of nanotomographic imaging and LBE solver. Journal of Soils and Sediments, 2012, 12, 86-96.	1.5	73
102	Risk Management of Domino Effects Considering Dynamic Consequence Analysis. Risk Analysis, 2014, 34, 1128-1138.	1.5	73
103	Modified Independent Component Analysis and Bayesian Network-Based Two-Stage Fault Diagnosis of Process Operations. Industrial & Engineering Chemistry Research, 2015, 54, 2724-2742.	1.8	73
104	The world's worst industrial accident of the 1990s what happened and what might have been: A quantitative study. Process Safety Progress, 1999, 18, 135-145.	0.4	72
105	Prioritization of environmental issues in offshore oil and gas operations: A hybrid approach using fuzzy inference system and fuzzy analytic hierarchy process. Chemical Engineering Research and Design, 2011, 89, 22-34.	2.7	71
106	Probability assessment of burst limit state due to internal corrosion. International Journal of Pressure Vessels and Piping, 2012, 89, 48-58.	1.2	71
107	Accident modeling approach for safety assessment in an LNG processing facility. Journal of Loss Prevention in the Process Industries, 2012, 25, 414-423.	1.7	70
108	LNG pool fire simulation for domino effect analysis. Reliability Engineering and System Safety, 2015, 143, 19-29.	5.1	70

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109	Review and analysis of supervised machine learning algorithms for hazardous events in drilling operations. Chemical Engineering Research and Design, 2021, 147, 367-384.	2.7	70
110	Development of a human reliability assessment technique for the maintenance procedures of marine and offshore operations. Journal of Loss Prevention in the Process Industries, 2017, 50, 416-428.	1.7	69
111	Comparison of Four Adsorption Isotherm Models for Characterizing Molecular Recognition of Individual Phenolic Compounds in Porous Tailor-Made Molecularly Imprinted Polymer Films. ACS Applied Materials & Interfaces, 2020, 12, 11998-12009.	4.0	69
112	An analysis of process fault diagnosis methods from safety perspectives. Computers and Chemical Engineering, 2021, 145, 107197.	2.0	69
113	Landfarming operation of oily sludge in arid regionâ€"human health risk assessment. Journal of Hazardous Materials, 2003, 99, 287-302.	6.5	68
114	Dynamic approach to risk management: Application to the Hoeganaes metal dust accidents. Chemical Engineering Research and Design, 2014, 92, 669-679.	2.7	68
115	A bibliometric analysis of peer-reviewed publications on domino effects in the process industry. Journal of Loss Prevention in the Process Industries, 2017, 49, 103-110.	1.7	68
116	A criterion for developing credible accident scenarios for risk assessment. Journal of Loss Prevention in the Process Industries, 2002, 15, 467-475.	1.7	67
117	Dynamic risk assessment of subsea pipelines leak using precursor data. Ocean Engineering, 2019, 178, 156-169.	1.9	67
118	Determination of human error probabilities in maintenance procedures of a pump. Chemical Engineering Research and Design, 2014, 92, 131-141.	2.7	66
119	Dynamic failure analysis of process systems using neural networks. Chemical Engineering Research and Design, 2017, 111, 529-543.	2.7	66
120	OptHAZOPâ€"an effective and optimum approach for HAZOP study. Journal of Loss Prevention in the Process Industries, 1997, 10, 191-204.	1.7	65
121	Assessment of risks posed by chemical industriesâ€"application of a new computer automated tool maxcred -III. Journal of Loss Prevention in the Process Industries, 1999, 12, 455-469.	1.7	65
122	A sparse PCA for nonlinear fault diagnosis and robust feature discovery of industrial processes. AICHE Journal, 2016, 62, 1494-1513.	1.8	65
123	Fuzzy Bayesian network based on an improved similarity aggregation method for risk assessment of storage tank accident. Chemical Engineering Research and Design, 2021, 149, 817-830.	2.7	65
124	Explosion modeling and analysis of BP Deepwater Horizon accident. Safety Science, 2013, 57, 150-160.	2.6	64
125	Domino effect analysis of dust explosions using Bayesian networks. Chemical Engineering Research and Design, 2016, 100, 108-116.	2.7	64
126	Risk-based fault detection and diagnosis for nonlinear and non-Gaussian process systems using R-vine copula. Chemical Engineering Research and Design, 2021, 150, 123-136.	2.7	64

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127	A dynamic risk model to analyze hydrogen infrastructure. International Journal of Hydrogen Energy, 2021, 46, 4626-4643.	3.8	63
128	A risk-based shutdown inspection and maintenance interval estimation considering human error. Chemical Engineering Research and Design, 2016, 100, 9-21.	2.7	61
129	Development of a monograph for human error likelihood assessment in marine operations. Safety Science, 2017, 91, 33-39.	2.6	61
130	Data driven model for sonic well log prediction. Journal of Petroleum Science and Engineering, 2018, 170, 1022-1037.	2.1	61
131	A simple yet robust resilience assessment metrics. Reliability Engineering and System Safety, 2020, 197, 106810.	5.1	61
132	Risk-based pipeline integrity management: A road map for the resilient pipelines. Journal of Pipeline Science and Engineering, 2021, 1, 74-87.	2.4	61
133	MAXCRED â€“ a new software package for rapid risk assessment in chemical process industries. Environmental Modelling and Software, 1998, 14, 11-25.	1.9	60
134	Risk-Based Prioritization of Air Pollution Monitoring Using Fuzzy Synthetic Evaluation Technique. Environmental Monitoring and Assessment, 2005, 105, 261-283.	1.3	60
135	Bayesian Stochastic Petri Nets (BSPN) - A new modelling tool for dynamic safety and reliability analysis. Reliability Engineering and System Safety, 2020, 193, 106587.	5.1	60
136	Revised fire consequence models for offshore quantitative risk assessment. Journal of Loss Prevention in the Process Industries, 2005, 18, 443-454.	1.7	59
137	Assessing offshore emergency evacuation behavior in a virtual environment using a Bayesian Network approach. Reliability Engineering and System Safety, 2016, 152, 28-37.	5.1	59
138	Resilience modeling of engineering systems using dynamic object-oriented Bayesian network approach. Computers and Industrial Engineering, 2019, 130, 108-118.	3.4	59
139	Availability analysis of safety critical systems using advanced fault tree and stochastic Petri net formalisms. Journal of Loss Prevention in the Process Industries, 2016, 44, 193-203.	1.7	57
140	Understanding industrial safety: Comparing Fault tree, Bayesian network, and FRAM approaches. Journal of Loss Prevention in the Process Industries, 2017, 45, 88-101.	1.7	57
141	Major accident modelling using spare data. Chemical Engineering Research and Design, 2017, 106, 52-59.	2.7	57
142	Copula-based Bayesian network model for process system risk assessment. Chemical Engineering Research and Design, 2019, 123, 317-326.	2.7	56
143	Dispersion modelling and analysis of hydrogen fuel gas released in an enclosed area: A CFD-based approach. Fuel, 2016, 184, 192-201.	3.4	55
144	Kick control reliability analysis of managed pressure drilling operation. Journal of Loss Prevention in the Process Industries, 2018, 52, 7-20.	1.7	55

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145	An ecological risk assessment model for Arctic oil spills from a subsea pipeline. Marine Pollution Bulletin, 2018, 135, 1117-1127.	2.3	55
146	Risk-based safety measure allocation to prevent and mitigate storage fire hazards. Chemical Engineering Research and Design, 2020, 135, 282-293.	2.7	55
147	A virtual experimental technique for data collection for a Bayesian network approach to human reliability analysis. Reliability Engineering and System Safety, 2014, 132, 1-8.	5.1	54
148	Reliability assessment of marine floating structures using Bayesian network. Applied Ocean Research, 2018, 76, 51-60.	1.8	54
149	Evaluation of available indices for inherently safer design options. Process Safety Progress, 2003, 22, 83-97.	0.4	53
150	Risk-based asset integrity indicators. Journal of Loss Prevention in the Process Industries, 2012, 25, 544-554.	1.7	53
151	Monitoring of down-hole parameters for early kick detection. Journal of Loss Prevention in the Process Industries, 2016, 40, 43-54.	1.7	53
152	Fault detection and diagnosis in process system using artificial intelligence-based cognitive technique. Computers and Chemical Engineering, 2020, 134, 106697.	2.0	53
153	Uncertainty-based quantitative assessment of sustainability for higher education institutions. Journal of Cleaner Production, 2011, 19, 720-732.	4.6	52
154	Application of Bayesian Regularization Artificial Neural Network in explosion risk analysis of fixed offshore platform. Journal of Loss Prevention in the Process Industries, 2019, 57, 131-141.	1.7	52
155	A novel fuzzy dynamic Bayesian network for dynamic risk assessment and uncertainty propagation quantification in uncertainty environment. Safety Science, 2021, 141, 105285.	2.6	52
156	Multivariate probabilistic safety analysis of process facilities using the Copula Bayesian Network model. Computers and Chemical Engineering, 2016, 93, 128-142.	2.0	51
157	Risk-based safety analysis of well integrity operations. Safety Science, 2016, 84, 149-160.	2.6	51
158	A Flexible Hierarchical Bayesian Modeling Technique for Risk Analysis of Major Accidents. Risk Analysis, 2017, 37, 1668-1682.	1.5	51
159	Risk assessment of rare events. Chemical Engineering Research and Design, 2015, 98, 102-108.	2.7	50
160	Review and analysis of the hydrogen production technologies from a safety perspective. International Journal of Hydrogen Energy, 2022, 47, 13990-14007.	3.8	50
161	TOPHAZOP: a knowledge-based software tool for conducting HAZOP in a rapid, efficient yet inexpensive manner. Journal of Loss Prevention in the Process Industries, 1997, 10, 333-343.	1.7	49
162	Data-driven dynamic risk analysis of offshore drilling operations. Journal of Petroleum Science and Engineering, 2018, 165, 444-452.	2.1	49

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163	Experimental design to study corrosion under insulation in harsh marine environments. Journal of Loss Prevention in the Process Industries, 2015, 33, 39-51.	1.7	48
164	Dynamic safety analysis of process systems using nonlinear and non-sequential accident model. Chemical Engineering Research and Design, 2016, 111, 169-183.	2.7	48
165	Why major accidents are still occurring. Current Opinion in Chemical Engineering, 2016, 14, 1-8.	3.8	48
166	Fire impact assessment in FLNG processing facilities using Computational Fluid Dynamics (CFD). Fire Safety Journal, 2017, 92, 42-52.	1.4	48
167	Electrochemical behaviour and analysis of Zn and Znâ€“Ni alloy anti-corrosive coatings deposited from citrate baths. RSC Advances, 2018, 8, 28861-28873.	1.7	48
168	Nonlinear Gaussian Belief Network based fault diagnosis for industrial processes. Journal of Process Control, 2015, 35, 178-200.	1.7	47
169	Human error assessment during maintenance operations of marine systems â€“ What are the effective environmental factors?. Safety Science, 2018, 107, 85-98.	2.6	47
170	Real-time leak detection using an infrared camera and Faster R-CNN technique. Computers and Chemical Engineering, 2020, 135, 106780.	2.0	47
171	Importance of human reliability in process operation: A critical analysis. Reliability Engineering and System Safety, 2021, 211, 107607.	5.1	47
172	A data-driven corrosion prediction model to support digitization of subsea operations. Chemical Engineering Research and Design, 2021, 153, 413-421.	2.7	47
173	Process accident model considering dependency among contributory factors. Chemical Engineering Research and Design, 2016, 102, 633-647.	2.7	46
174	An ontology-based methodology for hazard identification and causation analysis. Chemical Engineering Research and Design, 2019, 123, 87-98.	2.7	46
175	A novel dataâ€driven methodology for fault detection and dynamic risk assessment. Canadian Journal of Chemical Engineering, 2020, 98, 2397-2416.	0.9	46
176	Dust explosion risk moderation for flocculent dusts. Journal of Loss Prevention in the Process Industries, 2012, 25, 862-869.	1.7	45
177	Operational risk assessment: A case of the Bhopal disaster. Chemical Engineering Research and Design, 2015, 97, 70-79.	2.7	45
178	Modelling of fire risks in an offshore facility. Fire Safety Journal, 2015, 71, 79-85.	1.4	45
179	Integration of interpretive structural modelling with Bayesian network for biodiesel performance analysis. Renewable Energy, 2017, 107, 194-203.	4.3	45
180	FSEM: An approach to model contribution of synergistic effect of fires for domino effects. Reliability Engineering and System Safety, 2019, 189, 271-278.	5.1	45

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181	Microbiologically influenced corrosion (MIC) management using Bayesian inference. Ocean Engineering, 2021, 226, 108852.	1.9	45
182	Modeling of BP Texas City refinery incident. Journal of Loss Prevention in the Process Industries, 2007, 20, 387-395.	1.7	44
183	Developing a quantitative tool for sustainability assessment of HEIs. International Journal of Sustainability in Higher Education, 2011, 12, 355-368.	1.6	44
184	Effects of Cold Environments on Human Reliability Assessment in Offshore Oil and Gas Facilities. Human Factors, 2014, 56, 825-839.	2.1	44
185	Data-driven Bayesian network model for early kick detection in industrial drilling process. Chemical Engineering Research and Design, 2020, 138, 130-138.	2.7	44
186	An integrated approach for riskâ€based life cycle assessment and multiâ€criteria decisionâ€making. Business Process Management Journal, 2006, 12, 770-792.	2.4	43
187	Review of the Explosibility of Nontraditional Dusts. Industrial & Engineering Chemistry Research, 2012, 51, 7651-7655.	1.8	43
188	Self-Organizing Map Based Fault Diagnosis Technique for Non-Gaussian Processes. Industrial & Engineering Chemistry Research, 2014, 53, 8831-8843.	1.8	43
189	Real time risk analysis of kick detection: Testing and validation. Reliability Engineering and System Safety, 2017, 161, 25-37.	5.1	43
190	Failure analysis of the offshore process component considering causation dependence. Chemical Engineering Research and Design, 2018, 113, 220-232.	2.7	43
191	Operational risk assessment model for marine vessels. Reliability Engineering and System Safety, 2019, 185, 348-361.	5.1	43
192	Dynamic occupational risk model for offshore operations in harsh environments. Reliability Engineering and System Safety, 2016, 150, 58-64.	5.1	42
193	The impact of nature on chemical industrial facilities: Dealing with challenges for creating resilient chemical industrial parks. Journal of Loss Prevention in the Process Industries, 2018, 56, 378-385.	1.7	42
194	Risk-Based Integrity and Inspection Modeling (RBIIM) of Process Components/System. Risk Analysis, 2006, 26, 203-221.	1.5	41
195	Probabilistic risk assessment of major accidents: application to offshore blowouts in the Gulf of Mexico. Natural Hazards, 2014, 74, 1759-1771.	1.6	41
196	Risk-based fault detection using Self-Organizing Map. Reliability Engineering and System Safety, 2015, 139, 82-96.	5.1	41
197	Functional quantitative security risk analysis (QSRA) to assist in protecting critical process infrastructure. Reliability Engineering and System Safety, 2017, 157, 23-34.	5.1	41
198	Process safety concerns in process system digitalization. Education for Chemical Engineers, 2021, 34, 33-46.	2.8	41

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199	Human and organizational factors assessment of the evacuation operation of BP Deepwater Horizon accident. Safety Science, 2014, 70, 41-49.	2.6	40
200	Risk-based optimal safety measure allocation for dust explosions. Safety Science, 2015, 74, 79-92.	2.6	40
201	Dynamic Failure Analysis of Process Systems Using Principal Component Analysis and Bayesian Network. Industrial & Engineering Chemistry Research, 2017, 56, 2094-2106.	1.8	40
202	Model for microbiologically influenced corrosion potential assessment for the oil and gas industry. Corrosion Engineering Science and Technology, 2018, 53, 378-392.	0.7	40
203	The role of inherently safer design in process safety. Canadian Journal of Chemical Engineering, 2021, 99, 853-871.	0.9	40
204	Modeling of thermal runaway propagation of NMC battery packs after fast charging operation. Chemical Engineering Research and Design, 2021, 154, 104-117.	2.7	40
205	A risk-based approach to design warning system for processing facilities. Chemical Engineering Research and Design, 2011, 89, 310-316.	2.7	39
206	Network based approach for predictive accident modelling. Safety Science, 2015, 80, 274-287.	2.6	39
207	Development of an integrated tool for risk analysis of drilling operations. Chemical Engineering Research and Design, 2016, 102, 421-430.	2.7	39
208	Risk-Based Domino Effect Analysis for Fire and Explosion Accidents Considering Uncertainty in Processing Facilities. Industrial & Engineering Chemistry Research, 2018, 57, 3990-4006.	1.8	39
209	Optimization of biosurfactant production by Bacillus Subtilis N3-1P using the brewery waste as the carbon source. Environmental Technology (United Kingdom), 2019, 40, 3371-3380.	1.2	39
210	Unscented Kalman Filter trained neural networks based rudder roll stabilization system for ship in waves. Applied Ocean Research, 2017, 68, 26-38.	1.8	38
211	Robust Process Monitoring Methodology for Detection and Diagnosis of Unobservable Faults. Industrial & Engineering Chemistry Research, 2019, 58, 19149-19165.	1.8	38
212	Multimedia fate of oil spills in a marine environmentâ€"An integrated modelling approach. Chemical Engineering Research and Design, 2008, 86, 141-148.	2.7	37
213	Thermal stability investigation of sulfide minerals in DSC. Journal of Hazardous Materials, 2010, 178, 814-822.	6.5	37
214	Dynamic risk-based maintenance for offshore processing facility. Process Safety Progress, 2016, 35, 399-406.	0.4	37
215	Development of inherent safety benefits index to analyse the impact of inherent safety implementation. Chemical Engineering Research and Design, 2018, 117, 454-472.	2.7	37
216	Dynamic analysis for fire-induced domino effects in chemical process industries. Chemical Engineering Research and Design, 2021, 148, 686-697.	2.7	37

#	Article	IF	Citations
217	Operational subsea pipeline assessment affected by multiple defects of microbiologically influenced corrosion. Chemical Engineering Research and Design, 2022, 158, 159-171.	2.7	37
218	A review of risk-based decision-making models for microbiologically influenced corrosion (MIC) in offshore pipelines. Reliability Engineering and System Safety, 2022, 223, 108474.	5.1	37
219	Abnormal situation management for smart chemical process operation. Current Opinion in Chemical Engineering, 2016, 14, 49-55.	3.8	36
220	Economic risk analysis of pitting corrosion in process facilities. International Journal of Pressure Vessels and Piping, 2017, 157, 51-62.	1.2	36
221	Assessing the safety effects of cooperative intelligent transport systems: A bowtie analysis approach. Accident Analysis and Prevention, 2017, 99, 125-141.	3.0	36
222	Probabilistic fatigue failure assessment of free spanning subsea pipeline using dynamic Bayesian network. Ocean Engineering, 2021, 234, 109323.	1.9	36
223	Risk-based fault prediction of chemical processes using operable adaptive sparse identification of systems (OASIS). Computers and Chemical Engineering, 2021, 152, 107378.	2.0	36
224	Offshore system safety and reliability considering microbial influenced multiple failure modes and their interdependencies. Reliability Engineering and System Safety, 2021, 215, 107862.	5.1	36
225	Resilience assessment of a subsea pipeline using dynamic Bayesian network. Journal of Pipeline Science and Engineering, 2022, 2, 100053.	2.4	36
226	An inherent safety-based incident investigation methodology. Process Safety Progress, 2004, 23, 197-205.	0.4	35
227	A rough set-based quality function deployment (QFD) approach for environmental performance evaluation: a case of offshore oil and gas operations. Journal of Cleaner Production, 2011, 19, 1513-1526.	4.6	35
228	Dynamic risk assessment and fault detection using a multivariate technique. Process Safety Progress, 2013, 32, 365-375.	0.4	35
229	Modeling oil weathering and transport in sea ice. Marine Pollution Bulletin, 2016, 107, 206-215.	2.3	35
230	An Alternative Formulation of PCA for Process Monitoring Using Distance Correlation. Industrial & Engineering Chemistry Research, 2016, 55, 656-669.	1.8	35
231	A hierarchical Bayesian approach to modelling fate and transport of oil released from subsea pipelines. Chemical Engineering Research and Design, 2018, 118, 307-315.	2.7	35
232	A Review of Risk Analysis Research for the Operations of Autonomous Underwater Vehicles. Reliability Engineering and System Safety, 2021, 216, 108011.	5.1	35
233	PROFAT: A user friendly system for probabilistic fault tree analysis. Process Safety Progress, 1999, 18, 42-49.	0.4	34
234	Design and evaluation of safety measures using a newly proposed methodology â€œSCAPâ€• Journal of Loss Prevention in the Process Industries, 2002, 15, 129-146.	1.7	34

#	Article	IF	Citations
235	A model for estimating the probability of missile impact: Missiles originating from bursting horizontal cylindrical vessels. Process Safety Progress, 2007, 26, 129-139.	0.4	34
236	The Importance of Thiosalts Speciation: Review of Analytical Methods, Kinetics, and Treatment. Critical Reviews in Environmental Science and Technology, 2013, 43, 2013-2070.	6.6	34
237	A probabilistic multivariate method for fault diagnosis of industrial processes. Chemical Engineering Research and Design, 2015, 104, 306-318.	2.7	34
238	Dynamic quantitative operational risk assessment of chemical processes. Chemical Engineering Science, 2016, 142, 62-78.	1.9	34
239	Overpressure prediction using the hydro-rotary specific energy concept. Journal of Natural Gas Science and Engineering, 2018, 55, 243-253.	2.1	34
240	A novel approach for domino effects modeling and risk analysis based on synergistic effect and accident evidence. Reliability Engineering and System Safety, 2020, 203, 107109.	5.1	34
241	Supervised data-driven approach to early kick detection during drilling operation. Journal of Petroleum Science and Engineering, 2020, 192, 107324.	2.1	34
242	Operational risk analysis of blowout scenario in offshore drilling operation. Chemical Engineering Research and Design, 2021, 149, 422-431.	2.7	34
243	Dynamic risk analysis of marine and offshore systems suffering microbial induced stochastic degradation. Reliability Engineering and System Safety, 2021, 207, 107388.	5.1	34
244	Quantitative assessment of leakage orifices within gas pipelines using a Bayesian network. Reliability Engineering and System Safety, 2021, 209, 107438.	5.1	34
245	Corrosion risk assessment using adaptive bow-tie (ABT) analysis. Reliability Engineering and System Safety, 2021, 214, 107731.	5.1	34
246	Risk analysis of an epichlorohydrin manufacturing industry using the new computer automated tool MAXCRED. Journal of Loss Prevention in the Process Industries, 1997, 10, 91-100.	1.7	33
247	Towards automation of HAZOP with a new tool EXPERTOP. Environmental Modelling and Software, 2000, 15, 67-77.	1.9	33
248	GreenPro: a new methodology for cleaner and greener process design. Journal of Loss Prevention in the Process Industries, 2001, 14, 307-328.	1.7	33
249	Risk-Based Design of Safety Measures To Prevent and Mitigate Dust Explosion Hazards. Industrial & Engineering Chemistry Research, 2013, 52, 18095-18108.	1.8	33
250	Technologically Enhanced Naturally Occurring Radioactive Materials in oil and gas production: A silent killer. Chemical Engineering Research and Design, 2016, 99, 237-247.	2.7	33
251	Combining uncertainty reasoning and deterministic modeling for risk analysis of fire-induced domino effects. Safety Science, 2020, 129, 104802.	2.6	33
252	A framework to estimate the risk-based shutdown interval for a processing plant. Journal of Loss Prevention in the Process Industries, 2014, 32, 18-29.	1.7	32

#	Article	IF	Citations
253	Safety challenges in harsh environments: Lessons learned. Process Safety Progress, 2015, 34, 191-195.	0.4	32
254	A quantitative risk management framework for dust and hybrid mixture explosions. Journal of Loss Prevention in the Process Industries, 2013, 26, 283-289.	1.7	31
255	Improved latent variable models for nonlinear and dynamic process monitoring. Chemical Engineering Science, 2017, 168, 325-338.	1.9	31
256	Process Fault Prognosis Using Hidden Markov Modelâ€“Bayesian Networks Hybrid Model. Industrial & Engineering Chemistry Research, 2019, 58, 12041-12053.	1.8	31
257	Methodological improvements in the risk analysis of an urban hydrogen fueling station. Journal of Cleaner Production, 2020, 257, 120545.	4.6	31
258	Stochastic explosion risk analysis of hydrogen production facilities. International Journal of Hydrogen Energy, 2020, 45, 13535-13550.	3.8	31
259	Process design and probabilistic economic risk analysis of bio-diesel production. Sustainable Production and Consumption, 2016, 5, 1-15.	5.7	30
260	Prioritizing safety critical human and organizational factors of EER systems of offshore installations in a harsh environment. Safety Science, 2017, 95, 171-181.	2.6	30
261	An integrated approach for dynamic economic risk assessment of process systems. Chemical Engineering Research and Design, 2018, 116, 312-323.	2.7	30
262	Iron and aluminum powder explosibility in 20-L and 1-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:msup><mml:mrow><mml:mtext>m</mml:mtext></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mr chambers. Journal of Loss Prevention in the Process Industries, 2019, 62, 103927.	1.7	30
263	Development of risk model for marine logistics support to offshore oil and gas operations in remote and harsh environments. Ocean Engineering, 2019, 174, 125-134.	1.9	30
264	Analysis of underwater gas release and dispersion behavior to assess subsea safety risk. Journal of Hazardous Materials, 2019, 367, 676-685.	6.5	30
265	Human reliability assessment for complex physical operations in harsh operating conditions. Chemical Engineering Research and Design, 2020, 140, 1-13.	2.7	30
266	Could pool fire alone cause a domino effect?. Reliability Engineering and System Safety, 2020, 202, 106976.	5.1	30
267	Dynamic ecological risk modelling of hydrocarbon release scenarios in Arctic waters. Marine Pollution Bulletin, 2020, 153, 111001.	2.3	30
268	Dynamic risk modeling of complex hydrocarbon production systems. Chemical Engineering Research and Design, 2021, 151, 71-84.	2.7	30
269	Risk analysis of a chloralkali industry situated in a populated area using the software package MAXCRED-II. Process Safety Progress, 1997, 16, 172-184.	0.4	29
270	Attenuation of Gaseous Pollutants by Greenbelts. Environmental Monitoring and Assessment, 2000, 64, 457-475.	1.3	29

#	Article	IF	Citations
271	SCAP: a new methodology for safety management based on feedback from credible accident-probabilistic fault tree analysis system. Journal of Hazardous Materials, 2001, 87, 23-56.	6.5	29
272	An optimal level of dust explosion risk management: Framework andÂapplication. Journal of Loss Prevention in the Process Industries, 2013, 26, 1530-1541.	1.7	29
273	Loss functions and their applications in process safety assessment. Process Safety Progress, 2014, 33, 285-291.	0.4	29
274	Combustion products toxicity risk assessment in an offshore installation. Chemical Engineering Research and Design, 2014, 92, 616-624.	2.7	29
275	A robust risk assessment methodology for safety analysis of marine structures under storm conditions. Ocean Engineering, 2018, 156, 167-178.	1.9	29
276	Accidental release of Liquefied Natural Gas in a processing facility: Effect of equipment congestion level on dispersion behaviour of the flammable vapour. Journal of Loss Prevention in the Process Industries, 2019, 61, 237-248.	1.7	29
277	Probabilistic assessment of integrated safety and security related abnormal events: a case of chemical plants. Safety Science, 2019, 113, 115-125.	2.6	29
278	An integrated dynamic failure assessment model for offshore components under microbiologically influenced corrosion. Ocean Engineering, 2020, 218, 108082.	1.9	29
279	Corrosion behaviour of Zn-Ni alloy and Zn-Ni-nano-TiO2 composite coatings electrodeposited from ammonium citrate baths. Chemical Engineering Research and Design, 2020, 141, 366-379.	2.7	29
280	Operational safety assessment of offshore pipeline with multiple MIC defects. Computers and Chemical Engineering, 2020, 138, 106819.	2.0	29
281	Autonomous Fault Diagnosis and Root Cause Analysis for the Processing System Using One-Class SVM and NN Permutation Algorithm. Industrial & Engineering Chemistry Research, 2022, 61, 1408-1422.	1.8	29
282	Effective design of greenbelts using mathematical models. Journal of Hazardous Materials, 2001, 81, 33-65.	6.5	28
283	A probabilistic ecological risk model for Arctic marine oil spills. Journal of Environmental Chemical Engineering, 2017, 5, 1494-1503.	3.3	28
284	Resilience Analysis of a Remote Offshore Oil and Gas Facility for a Potential Hydrocarbon Release. Risk Analysis, 2018, 38, 1601-1617.	1.5	28
285	Review and analysis of microbiologically influenced corrosion: the chemical environment in oil and gas facilities. Corrosion Engineering Science and Technology, 2018, 53, 549-563.	0.7	28
286	A novel vulnerability model considering synergistic effect of fire and overpressure in chemical processing facilities. Reliability Engineering and System Safety, 2022, 217, 108081.	5.1	28
287	Mathematical model for HAZOP study time estimation. Journal of Loss Prevention in the Process Industries, 1997, 10, 249-257.	1.7	27
288	Dust explosion hazard of pulverized fuel carry-over. Journal of Hazardous Materials, 2005, 122, 23-30.	6.5	27

#	Article	IF	Citations
289	Sustainable development of process facilities: State-of-the-art review of pollution prevention frameworks. Journal of Hazardous Materials, 2008, 150, 4-20.	6.5	27
290	Risk-based operational performance analysis using loss functions. Chemical Engineering Science, 2014, 116, 99-108.	1.9	27
291	Loss scenario analysis and loss aggregation for process facilities. Chemical Engineering Science, 2015, 128, 119-129.	1.9	27
292	Small scale experiment study on burning characteristics for in-situ burning of crude oil on open water. Journal of Loss Prevention in the Process Industries, 2019, 60, 46-52.	1.7	27
293	Evaluating offshore technologies for produced water management using GreenPro-Iâ€”a risk-based life cycle analysis for green and clean process selection and design. Computers and Chemical Engineering, 2005, 29, 1023-1039.	2.0	26
294	ExpHAZOP+: Knowledge-based expert system to conduct automated HAZOP analysis. Journal of Loss Prevention in the Process Industries, 2009, 22, 373-380.	1.7	26
295	Bibliometric Analysis of Microbiologically Influenced Corrosion (MIC) of Oil and Gas Engineering Systems. Corrosion, 2018, 74, 468-486.	0.5	26
296	Lower flammability limits of hybrid mixtures containing 10 micron coal dust particles and methane gas. Chemical Engineering Research and Design, 2018, 120, 215-226.	2.7	26
297	Carbon Quantum Dot-Incorporated Chitosan Hydrogel for Selective Sensing of Hg²⁺ Ions: Synthesis, Characterization, and Density Functional Theory Calculation. ACS Omega, 2021, 6, 23504-23514.	1.6	26
298	A dynamic human-factor risk model to analyze safety in sociotechnical systems. Chemical Engineering Research and Design, 2022, 164, 479-498.	2.7	26
299	Simultaneous segmentation and beam-hardening correction in computed microtomography of rock cores. Computers and Geosciences, 2013, 56, 142-150.	2.0	25
300	Delay risk analysis of ship sailing the northern sea route. Ship Technology Research, 2015, 62, 26-35.	1.1	25
301	Integrated offshore power operation resilience assessment using Object Oriented Bayesian network. Ocean Engineering, 2018, 167, 257-266.	1.9	25
302	Safety analysis of plugging and abandonment of oil and gas wells in uncertain conditions with limited data. Reliability Engineering and System Safety, 2019, 188, 133-141.	5.1	25
303	Nonlinear model predictive control of a Hammerstein Weiner model based experimental managed pressure drilling setup. ISA Transactions, 2019, 88, 225-232.	3.1	25
304	A time-dependent probabilistic model for fire accident analysis. Fire Safety Journal, 2020, 111, 102891.	1.4	25
305	A hybrid human reliability assessment technique for the maintenance operations of marine and offshore systems. Process Safety Progress, 2020, 39, e12118.	0.4	25
306	Dynamic resilience assessment of the Marine LNG offloading system. Reliability Engineering and System Safety, 2021, 208, 107368.	5.1	25

#	Article	IF	Citations
307	OASIS-P: Operable Adaptive Sparse Identification of Systems for fault Prognosis of chemical processes. Journal of Process Control, 2021, 107, 114-126.	1.7	25
308	Evaluation of a petroleum hydrocarbon contaminated site for natural attenuation using â€˜RBMNAâ€™ methodology. Environmental Modelling and Software, 2003, 18, 179-194.	1.9	24
309	Risk based integrity modeling of offshore process components suffering stochastic degradation. Journal of Quality in Maintenance Engineering, 2013, 19, 157-180.	1.0	24
310	Coupling of advanced techniques for dynamic risk management. Journal of Risk Research, 2015, 18, 910-930.	1.4	24
311	Development of Economic Consequence Methodology for Process Risk Analysis. Risk Analysis, 2015, 35, 713-731.	1.5	24
312	Inherently safer design protocol for process hazard analysis. Chemical Engineering Research and Design, 2021, 149, 199-211.	2.7	24
313	A probabilistic model to estimate microbiologically influenced corrosion rate. Chemical Engineering Research and Design, 2021, 148, 908-926.	2.7	24
314	A dynamic domino effect risk analysis model for rail transport of hazardous material. Journal of Loss Prevention in the Process Industries, 2022, 74, 104666.	1.7	24
315	Risk-based monitored natural attenuation â€” a case study. Journal of Hazardous Materials, 2001, 85, 243-272.	6.5	23
316	Fatigue reliability analysis of deep water rigid marine risers associated with Morison-type wave loading. Stochastic Environmental Research and Risk Assessment, 2008, 22, 379-390.	1.9	23
317	An analysis of CSB investigation reports concerning the hierarchy of controls. Process Safety Progress, 2011, 30, 261-265.	0.4	23
318	Multimedia fate modeling of oil spills in ice-infested waters: An exploration of the feasibility of fugacity-based approach. Chemical Engineering Research and Design, 2015, 93, 206-217.	2.7	23
319	Application of loss functions in process economic risk assessment. Chemical Engineering Research and Design, 2016, 111, 371-386.	2.7	23
320	Semiparametric PCA and bayesian network based process fault diagnosis technique. Canadian Journal of Chemical Engineering, 2017, 95, 1800-1816.	0.9	23
321	A network based approach to envisage potential accidents in offshore process facilities. Process Safety Progress, 2017, 36, 178-191.	0.4	23
322	Security assessment of process facilities â€“ Intrusion modeling. Chemical Engineering Research and Design, 2018, 117, 639-650.	2.7	23
323	Dynamic risk assessment of escape and evacuation on offshore installations in a harsh environment. Applied Ocean Research, 2018, 79, 1-6.	1.8	23
324	Risk analysis of well blowout scenarios during managed pressure drilling operation. Journal of Petroleum Science and Engineering, 2019, 182, 106296.	2.1	23

#	Article	IF	Citations
325	Process Safety Assessment Considering Multivariate Non-linear Dependence Among Process Variables. Chemical Engineering Research and Design, 2020, 135, 70-80.	2.7	23
326	A CAST-based causal analysis of the catastrophic underground pipeline gas explosion in Taiwan. Engineering Failure Analysis, 2020, 108, 104343.	1.8	23
327	HAZDIG: a new software package for assessing the risks of accidental release of toxic chemicals. Journal of Loss Prevention in the Process Industries, 1999, 12, 167-181.	1.7	22
328	Presence of three different paternal lineages among North Indians: A study of 560 Y chromosomes. Annals of Human Biology, 2009, 36, 46-59.	0.4	22
329	A risk-based availability estimation using Markov method. International Journal of Quality and Reliability Management, 2014, 31, 106-128.	1.3	22
330	A model to assess dust explosion occurrence probability. Journal of Hazardous Materials, 2014, 268, 140-149.	6.5	22
331	Retrospective risk analysis and controls for Semabla grain storage hybrid mixture explosion. Chemical Engineering Research and Design, 2016, 100, 49-64.	2.7	22
332	Combination of KPCA and causality analysis for root cause diagnosis of industrial process fault. Canadian Journal of Chemical Engineering, 2017, 95, 1497-1509.	0.9	22
333	A numerical fire simulation approach for effectiveness analysis of fire safety measures in floating liquefied natural gas facilities. Ocean Engineering, 2018, 157, 219-233.	1.9	22
334	Dynamic risk-based inspection methodology. Journal of Loss Prevention in the Process Industries, 2019, 62, 103974.	1.7	22
335	Artificial bee colony Based Bayesian Regularization Artificial Neural Network approach to model transient flammable cloud dispersion in congested area. Chemical Engineering Research and Design, 2019, 128, 121-127.	2.7	22
336	Dynamic data driven sonic well log model for formation evaluation. Journal of Petroleum Science and Engineering, 2019, 175, 1049-1062.	2.1	22
337	Identifying route selection strategies in offshore emergency situations using decision trees. Reliability Engineering and System Safety, 2020, 194, 106179.	5.1	22
338	A novel approach to reduce fire-induced domino effect risk by leveraging loading/unloading demands in chemical industrial parks. Chemical Engineering Research and Design, 2021, 146, 610-619.	2.7	22
339	Explosibility of polyamide and polyester fibers. Journal of Loss Prevention in the Process Industries, 2013, 26, 1627-1633.	1.7	21
340	SVAPP methodology: A predictive security vulnerability assessment modeling method. Journal of Loss Prevention in the Process Industries, 2016, 43, 397-413.	1.7	21
341	Accelerated pitting corrosion test of 304 stainless steel using ASTM G48; Experimental investigation and concomitant challenges. Journal of Loss Prevention in the Process Industries, 2017, 47, 10-21.	1.7	21
342	Kinetic modeling and dynamic analysis of simultaneous saccharification and fermentation of cellulose to bioethanol. Energy Conversion and Management, 2017, 141, 236-243.	4.4	21

#	Article	IF	Citations
343	Incorporating individual differences in human reliability analysis: An extension to the virtual experimental technique. Safety Science, 2018, 107, 216-223.	2.6	21
344	Static Young's modulus model prediction for formation evaluation. Journal of Petroleum Science and Engineering, 2018, 171, 394-402.	2.1	21
345	Dynamic risk assessment of reservoir production using data-driven probabilistic approach. Journal of Petroleum Science and Engineering, 2020, 184, 106486.	2.1	21
346	Gamma ray log generation from drilling parameters using deep learning. Journal of Petroleum Science and Engineering, 2020, 195, 107906.	2.1	21
347	Offshore oil and gas occupational accidentsâ€"What is important?. Journal of Loss Prevention in the Process Industries, 2006, 19, 386-398.	1.7	20
348	Dynamic Risk Assessment of a Nonlinear Nonâ€Gaussian System Using a Particle Filter and Detailed Consequence Analysis. Canadian Journal of Chemical Engineering, 2015, 93, 1201-1211.	0.9	20
349	Major Accidents (Gray Swans) Likelihood Modeling Using Accident Precursors and Approximate Reasoning. Risk Analysis, 2015, 35, 1336-1347.	1.5	20
350	A novel process economics risk model applied to biodiesel production system. Renewable Energy, 2018, 118, 615-626.	4.3	20
351	Hybrid connectionist models to assess recovery performance of low salinity water injection. Journal of Petroleum Science and Engineering, 2021, 197, 107833.	2.1	20
352	A food chain-based ecological risk assessment model for oil spills in the Arctic environment. Marine Pollution Bulletin, 2021, 166, 112164.	2.3	20
353	Modelling of the effect of size on flocculent dust explosions. Journal of Loss Prevention in the Process Industries, 2013, 26, 1634-1638.	1.7	19
354	Accident modeling and risk assessment framework for safety critical decision-making: application to deepwater drilling operation. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2013, 227, 86-105.	0.6	19
355	Probabilistic estimation of hydrate formation. Journal of Petroleum Science and Engineering, 2015, 135, 32-38.	2.1	19
356	Scenario-based risk assessment of TENORM waste disposal options in oil and gas industry. Journal of Loss Prevention in the Process Industries, 2016, 40, 55-66.	1.7	19
357	A predictive approach to fitness-for-service assessment of pitting corrosion. International Journal of Pressure Vessels and Piping, 2016, 137, 13-21.	1.2	19
358	A bibliometric analysis of process system failure and reliability literature. Engineering Failure Analysis, 2019, 106, 104152.	1.8	19
359	Optimization of zincâ€nickel film electrodeposition for better corrosion resistant characteristics. Canadian Journal of Chemical Engineering, 2019, 97, 2426-2439.	0.9	19
360	A cellular automation model for convoy traffic in Arctic waters. Cold Regions Science and Technology, 2019, 164, 102783.	1.6	19

#	Article	IF	Citations
361	E-Green â˜ A Robust Risk-Based Environmental Assessment Tool for Process Industries. Industrial & Engineering Chemistry Research, 2007, 46, 8787-8795.	1.8	18
362	The Development of Posterior Probability Models in Risk-Based Integrity Modeling. Risk Analysis, 2010, 30, 400-420.	1.5	18
363	Fugitive emissions in chemical processes: The assessment and prevention based on inherent and add-on approaches. Journal of Loss Prevention in the Process Industries, 2012, 25, 820-829.	1.7	18
364	Real-time monitoring and management of offshore process system integrity. Current Opinion in Chemical Engineering, 2016, 14, 61-71.	3.8	18
365	Dynamic fugacity model for accidental oil release during Arctic shipping. Marine Pollution Bulletin, 2016, 111, 347-353.	2.3	18
366	Simplified electrochemical potential noise method to predict corrosion and corrosion rate. Journal of Loss Prevention in the Process Industries, 2017, 47, 72-84.	1.7	18
367	Revised burst model for pipeline integrity assessment. Engineering Failure Analysis, 2017, 80, 24-38.	1.8	18
368	Pitting Degradation Modeling of Ocean Steel Structures Using Bayesian Network. Journal of Offshore Mechanics and Arctic Engineering, 2017, 139, .	0.6	18
369	Hierarchical Bayesian model for failure analysis of offshore wells during decommissioning and abandonment processes. Chemical Engineering Research and Design, 2019, 131, 307-319.	2.7	18
370	A decision support tool for bi-objective risk-based maintenance scheduling of an LNG gas sweetening unit. Journal of Quality in Maintenance Engineering, 2019, 25, 65-89.	1.0	18
371	A conditional dependence-based marine logistics support risk model. Reliability Engineering and System Safety, 2020, 193, 106623.	5.1	18
372	Quantitative fire risk assessment of cotton storage and a criticality analysis of risk control strategies. Fire and Materials, 2020, 44, 165-179.	0.9	18
373	The selection of corrosion prior distributions for risk based integrity modeling. Stochastic Environmental Research and Risk Assessment, 2009, 23, 793-809.	1.9	17
374	Riskâ€based fault diagnosis and safety management for process systems. Process Safety Progress, 2011, 30, 6-17.	0.4	17
375	A risk-based approach to developing design temperatures for vessels operating in low temperature environments. Ocean Engineering, 2015, 108, 813-819.	1.9	17
376	Operational loss modelling for process facilities using multivariate loss functions. Chemical Engineering Research and Design, 2015, 104, 333-345.	2.7	17
377	The importance of public participation in legislation of TENORM risk management in the oil and gas industry. Chemical Engineering Research and Design, 2016, 102, 606-614.	2.7	17
378	Distributed X-ray photon correlation spectroscopy data reduction using Hadoop MapReduce. Journal of Synchrotron Radiation, 2018, 25, 1135-1143.	1.0	17

#	Article	IF	Citations
379	Numerical analysis of performances of passive fire protections in processing facilities. Journal of Loss Prevention in the Process Industries, 2019, 62, 103970.	1.7	17
380	Nonlinear model predictive control of gas kick in a managed pressure drilling system. Journal of Petroleum Science and Engineering, 2019, 174, 1223-1235.	2.1	17
381	How can process safety and a risk management approach guide pandemic risk management?. Journal of Loss Prevention in the Process Industries, 2020, 68, 104310.	1.7	17
382	Precautionary Principle (PP) versus As Low As Reasonably Practicable (ALARP): Which one to use and when. Chemical Engineering Research and Design, 2020, 137, 158-168.	2.7	17
383	Data-driven model for shear wave transit time prediction for formation evaluation. Journal of Petroleum Exploration and Production, 2020, 10, 1429-1447.	1.2	17
384	Data-driven operational failure likelihood model for microbiologically influenced corrosion. Chemical Engineering Research and Design, 2021, 153, 472-485.	2.7	17
385	Advanced methods of risk assessment and management: An overview. Methods in Chemical Process Safety, 2020, , 1-34.	0.5	17
386	North Indian Muslims: Enclaves of foreign DNA or Hindu converts?. American Journal of Physical Anthropology, 2007, 133, 1004-1012.	2.1	16
387	A riskâ€based approach to manage nonâ€repairable spare parts inventory. Journal of Quality in Maintenance Engineering, 2012, 18, 344-362.	1.0	16
388	Design of Scenario-Based Early Warning System for Process Operations. Industrial & Engineering Chemistry Research, 2015, 54, 8255-8265.	1.8	16
389	International trade and the transmission of shocks: The case of ASEAN-4 and NIE-4 economies. Economic Modelling, 2018, 72, 109-121.	1.8	16
390	Dynamic Blowout Risk Analysis Using Loss Functions. Risk Analysis, 2018, 38, 255-271.	1.5	16
391	Risk assessment of process system considering dependencies. Journal of Loss Prevention in the Process Industries, 2018, 55, 204-212.	1.7	16
392	Modeling and simulation of offshore personnel during emergency situations. Safety Science, 2019, 111, 144-153.	2.6	16
393	Risk assessment of offshore fire accidents caused by subsea gas release. Applied Ocean Research, 2021, 115, 102828.	1.8	16
394	Risk Assessment and Safety Evaluation Using Probabilistic Fault Tree Analysis. Human and Ecological Risk Assessment (HERA), 2001, 7, 1909-1927.	1.7	15
395	Prediction of Minerals Producing Acid Mine Drainage Using a Computer-Assisted Thermodynamic Chemical Equilibrium Model. Mine Water and the Environment, 2009, 28, 74-78.	0.9	15
396	Risk-based shutdown management of LNG units. Journal of Loss Prevention in the Process Industries, 2012, 25, 159-165.	1.7	15

#	Article	IF	Citations
397	Uncertainty-Driven Characterization of Climate Change Effects on Drought Frequency Using Enhanced SPI. Water Resources Management, 2014, 28, 15-40.	1.9	15
398	Determination of Human Error Probabilities for the Maintenance Operations of Marine Engines. Journal of Ship Production and Design, 2016, 32, 226-234.	0.2	15
399	Riskâ€based process system monitoring using selfâ€organizing map integrated with loss functions. Canadian Journal of Chemical Engineering, 2016, 94, 1295-1307.	0.9	15
400	Experimental evaluation of control performance of MPC as a regulatory controller. ISA Transactions, 2017, 70, 512-520.	3.1	15
401	Safety assessment of natural gas purification plant. Chemical Engineering Research and Design, 2018, 113, 459-466.	2.7	15
402	Chemical safety board investigation reports and the hierarchy of controls: Round 2. Process Safety Progress, 2018, 37, 459-466.	0.4	15
403	Integrated risk management of hazardous processing facilities. Process Safety Progress, 2019, 38, 42-51.	0.4	15
404	Niacin, lycopodium and polyethylene powder explosibility in 20-L and 1-m3 test chambers. Journal of Loss Prevention in the Process Industries, 2019, 62, 103937.	1.7	15
405	Risk-Based Cost Benefit Analysis of Offshore Resource Centre to Support Remote Offshore Operations in Harsh Environment. Reliability Engineering and System Safety, 2021, 207, 107340.	5.1	15
406	Dynamic failure probability analysis of urban gas pipeline network. Journal of Loss Prevention in the Process Industries, 2021, 72, 104552.	1.7	15
407	Development of riskâ€based process safety indicators. Process Safety Progress, 2010, 29, 133-143.	0.4	14
408	Quantifying the effect of strong ignition sources on particle preconditioning and distribution in the 20-L chamber. Journal of Loss Prevention in the Process Industries, 2013, 26, 1574-1582.	1.7	14
409	Multi-phase classification by a least-squares support vector machine approach in tomography images of geological samples. Solid Earth, 2016, 7, 481-492.	1.2	14
410	Accident risk-based life cycle assessment methodology for green and safe fuel selection. Chemical Engineering Research and Design, 2017, 109, 268-287.	2.7	14
411	Multi-objective optimization of simultaneous saccharification and fermentation for cellulosic ethanol production. Renewable Energy, 2018, 125, 100-107.	4.3	14
412	Arctic marine fish â€˜biotransformation toxicityâ€™ model for ecological risk assessment. Marine Pollution Bulletin, 2019, 142, 408-418.	2.3	14
413	An explorative object-oriented Bayesian network model for oil spill response in the Arctic Ocean. Safety in Extreme Environments, 2020, 2, 3-14.	1.8	14
414	A Framework for Integrating Life-Safety and Environmental Consequences into Conventional Arctic Shipping Risk Models. Applied Sciences (Switzerland), 2020, 10, 2937.	1.3	14

#	Article	IF	Citations
415	Kinetics and safety analysis of sulfide mineral self-heating. Journal of Thermal Analysis and Calorimetry, 2011, 106, 53-61.	2.0	13
416	Dempster-Shafer Theory for Handling Conflict in Hydrological Data: Case of Snow Water Equivalent. Journal of Computing in Civil Engineering, 2012, 26, 434-447.	2.5	13
417	Risk-based Winterization for Vessels Operations in Arctic Environments. Journal of Ship Production and Design, 2013, 29, 199-210.	0.2	13
418	Overview of Marine and Offshore Safety. Methods in Chemical Process Safety, 2018, 2, 1-97.	0.5	13
419	Data-driven early warning model for screenout scenarios in shale gas fracturing operation. Computers and Chemical Engineering, 2020, 143, 107116.	2.0	13
420	A variable mosquito flying optimizationâ€based hybrid artificial neural network model for the alarm tuning of process fault detection systems. Process Safety Progress, 2020, 39, e12122.	0.4	13
421	A sequence-based method for dynamic reliability assessment of MPD systems. Chemical Engineering Research and Design, 2021, 146, 927-942.	2.7	13
422	Reliability assessment of marine structures considering multidimensional dependency of the variables. Ocean Engineering, 2021, 230, 109021.	1.9	13
423	Cross-country pipeline inspection data analysis and testing of probabilistic degradation models. Journal of Pipeline Science and Engineering, 2021, 1, 308-320.	2.4	13
424	PC-SAFT/UNIQUAC model assesses formation condition of methane hydrate in the presence of imidazolium-based ionic liquid systems. Fuel, 2020, 266, 116757.	3.4	13
425	A hybrid intelligent model for reservoir production and associated dynamic risks. Journal of Natural Gas Science and Engineering, 2020, 83, 103512.	2.1	13
426	Accident simulation as a tool for assessing and controlling environmental risks in chemical process industries: A case study. Korean Journal of Chemical Engineering, 1998, 15, 124-135.	1.2	12
427	Explosibility parameters for mixtures of pulverized fuel and ash. Journal of Loss Prevention in the Process Industries, 2006, 19, 142-148.	1.7	12
428	SusDesign â€“ An approach for a sustainable process system design and its application to a thermal power plant. Applied Thermal Engineering, 2010, 30, 1896-1913.	3.0	12
429	An Integrated Decision-Making Framework for Sustainability Assessment: A Case Study of Memorial University. Higher Education Policy, 2011, 24, 481-498.	1.3	12
430	Quantitative risk-based ranking of chemicals considering hazardous thermal reactions. Journal of Chemical Health and Safety, 2014, 21, 27-38.	1.1	12
431	Probabilistic modeling of business interruption and reputational losses for process facilities. Process Safety Progress, 2015, 34, 373-382.	0.4	12
432	A risk-based methodology to estimate shutdown interval considering system availability. Process Safety Progress, 2015, 34, 267-279.	0.4	12

#	Article	IF	Citations
433	Life Cycle Assessment of Bioethanol Production from Woodchips with Modifications in the Pretreatment Process. Applied Biochemistry and Biotechnology, 2015, 175, 1080-1091.	1.4	12
434	Methodology to analyse LNG spill on steel structure in congested marine offshore facility. Journal of Loss Prevention in the Process Industries, 2019, 62, 103936.	1.7	12
435	Modeling and Testing of Temporal Dependency in the Failure of a Process System. Industrial & Engineering Chemistry Research, 2019, 58, 8162-8171.	1.8	12
436	Influence of chloride and pH on the pitting mechanism of Znâ€Ni alloy coating in sodium chloride solutions. Canadian Journal of Chemical Engineering, 2021, 99, 680-694.	0.9	12
437	Zn composite corrosion resistance coatings: What works and what does not work?. Journal of Loss Prevention in the Process Industries, 2021, 69, 104376.	1.7	12
438	Cushioning the impact of toxic release from runaway industrial accidents with greenbelts. Journal of Loss Prevention in the Process Industries, 2000, 13, 109-124.	1.7	11
439	Subsea Release of Oil from a Riser: An Ecological Risk Assessment. Risk Analysis, 2008, 28, 1173-1196.	1.5	11
440	Paleolithic spread of Y-chromosomal lineage of tribes in eastern and northeastern India. Annals of Human Biology, 2011, 38, 736-746.	0.4	11
441	Identification of the Cause of Variability of Probability of Failure for Burst Models Recommended by Codes/Standards. Journal of Pressure Vessel Technology, Transactions of the ASME, 2011, 133, .	0.4	11
442	Developing a novel methodology for ecological risk assessment of thiosalts. Stochastic Environmental Research and Risk Assessment, 2014, 28, 383-391.	1.9	11
443	Early Warning System for Chemical Processes with Time Delay and Limited Actuator Capacity. Industrial & Engineering Chemistry Research, 2014, 53, 4763-4772.	1.8	11
444	Transportation Risk Analysis Framework for Arctic Waters. , 2014, , .		11
445	The use of a virtual environment in managing risks associated with human responses in emergency situations on offshore installations. Ocean Engineering, 2018, 147, 621-628.	1.9	11
446	Situation awareness modeling for emergency management on offshore platforms. Human-centric Computing and Information Sciences, 2019, 9, .	6.1	11
447	Experimental investigation of gas kick effects on dynamic drilling parameters. Journal of Petroleum Exploration and Production, 2019, 9, 605-616.	1.2	11
448	Assessment of cross-reactivity in a tailor-made molecularly imprinted polymer for phenolic compounds using four adsorption isotherm models. Journal of Chromatography A, 2020, 1629, 461463.	1.8	11
449	Electrochemical analysis of an electrodeposited Zn-Ni alloy films contained EDTA stable baths in 3.5â€¯wt% NaCl solutions. Materials Today: Proceedings, 2020, 28, 532-537.	0.9	11
450	Risk analysis of man overboard scenario in a small fishing vessel. Ocean Engineering, 2021, 229, 108979.	1.9	11

#	Article	IF	Citations
451	Pandemic risk management using engineering safety principles. Chemical Engineering Research and Design, 2021, 150, 416-432.	2.7	11
452	Resilience assessment framework for fast response process systems. Chemical Engineering Research and Design, 2022, 163, 82-93.	2.7	11
453	TORAPÂâ€" a new tool for conducting rapid risk-assessments in petroleum refineries and petrochemical industries. Applied Energy, 2000, 65, 187-210.	5.1	10
454	Emission factor estimation for oil and gas facilities. Chemical Engineering Research and Design, 2011, 89, 295-299.	2.7	10
455	Risk-Based Prioritisation of Indoor Air Pollution Monitoring Using Computational Fluid Dynamics. Indoor and Built Environment, 2012, 21, 663-673.	1.5	10
456	A rough set-based game theoretical approach for environmental decision-making: A case of offshore oil and gas operations. Chemical Engineering Research and Design, 2013, 91, 172-182.	2.7	10
457	Development of an organizational framework for studying dust explosion phenomena. Journal of Loss Prevention in the Process Industries, 2014, 30, 228-235.	1.7	10
458	Influence of liquid and vapourized solvents on explosibility of pharmaceutical excipient dusts. Process Safety Progress, 2014, 33, 374-379.	0.4	10
459	Correlation and Dependency in Multivariate Process Risk Assessment. IFAC-PapersOnLine, 2015, 48, 1339-1344.	0.5	10
460	Layout Optimization of a Floating Liquefied Natural Gas Facility Using Inherent Safety Principles. Journal of Offshore Mechanics and Arctic Engineering, 2016, 138, .	0.6	10
461	Demonstration of increased corrosion activity for insulated pipe systems using a simplified electrochemical potential noise method. Journal of Loss Prevention in the Process Industries, 2017, 47, 189-202.	1.7	10
462	Rare Event Analysis Considering Data and Model Uncertainty. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2017, 3, .	0.7	10
463	Role of particle diameter in the lower flammability limits of hybrid mixtures containing coal dust and methane gas. Journal of Loss Prevention in the Process Industries, 2019, 61, 206-212.	1.7	10
464	Rare event risk analysis â€" application to iceberg collision. Journal of Loss Prevention in the Process Industries, 2020, 66, 104199.	1.7	10
465	Risk assessment of Arctic aquatic species using ecotoxicological biomarkers and Bayesian network. Marine Pollution Bulletin, 2020, 156, 111212.	2.3	10
466	Integration of Resilience and FRAM for Safety Management. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2020, 6, .	1.1	10
467	Application of bow tie analysis and inherently safer design to the novel coronavirus hazard. Chemical Engineering Research and Design, 2021, 152, 701-718.	2.7	10
468	Combining porosity and resistivity logs for pore pressure prediction. Journal of Petroleum Science and Engineering, 2021, 205, 108819.	2.1	10

#	Article	IF	Citations
469	Capsizing accident scenario model for small fishing trawler. Safety Science, 2022, 145, 105500.	2.6	10
470	Myths and misconceptions of data-driven methods: Applications to process safety analysis. Computers and Chemical Engineering, 2022, 158, 107639.	2.0	10
471	Vulnerability assessment method for domino effects analysis in chemical clusters. Chemical Engineering Research and Design, 2022, 164, 539-554.	2.7	10
472	A general method to combine environmental and life-safety consequences of Arctic ship accidents. Safety Science, 2022, 154, 105855.	2.6	10
473	Rapid risk assessment of a fertilizer industry using recently developed computer-automated tool TORAP. Journal of Loss Prevention in the Process Industries, 2001, 14, 413-427.	1.7	9
474	Agricultural application of life cycle iNdeX (LInX) for effective decision making. Journal of Cleaner Production, 2010, 18, 1703-1713.	4.6	9
475	Improving safety and availability of complex systems using a risk-based failure assessment approach. Journal of Loss Prevention in the Process Industries, 2014, 32, 218-229.	1.7	9
476	Management of TENORMs produced during oil and gas operation. Journal of Loss Prevention in the Process Industries, 2017, 47, 161-168.	1.7	9
477	Review: Removal of Thiosalt/Sulfate from Mining Effluents by Adsorption and Ion Exchange. Mineral Processing and Extractive Metallurgy Review, 2019, 40, 79-86.	2.6	9
478	Human-Like Sequential Learning of Escape Routes for Virtual Reality Agents. Fire Technology, 2019, 55, 1057-1083.	1.5	9
479	Early Detection and Estimation of Kick in Managed Pressure Drilling. SPE Drilling and Completion, 2021, 36, 245-262.	0.9	9
480	Subsea Pipelines Leak-Modeling Using Computational Fluid Dynamics Approach. Journal of Pipeline Systems Engineering and Practice, 2021, 12, .	0.9	9
481	Using the FRAM to Understand Arctic Ship Navigation: Assessing Work Processes During the Exxon Valdez Grounding. TransNav, 2018, 12, 447-457.	0.3	9
482	Removal of copper from sulfate solutions using biochar derived from crab processing by-product. Journal of Environmental Management, 2022, 303, 114270.	3.8	9
483	Analyzing operational risk for small fishing vessels considering crew effectiveness. Ocean Engineering, 2022, 249, 110512.	1.9	9
484	TORAPâ€"a new tool for conducting rapid risk assessment in petroleum refineries and petrochemical industries. Journal of Loss Prevention in the Process Industries, 1999, 12, 299-313.	1.7	8
485	Advanced kinetics for calorimetric techniques and thermal stability screening of sulfide minerals. Thermochimica Acta, 2010, 501, 35-45.	1.2	8
486	A methodology for calculating sample size to assess localized corrosion of process components. Journal of Loss Prevention in the Process Industries, 2012, 25, 70-80.	1.7	8

#	Article	IF	Citations
487	Industry specific dust explosion likelihood assessment model with case studies. Journal of Chemical Health and Safety, 2014, 21, 13-27.	1.1	8
488	Improved oil recovery using CO2 as an injection medium: a detailed analysis. Journal of Petroleum Exploration and Production, 2015, 5, 241-254.	1.2	8
489	Probing Surface Functionality on Amorphous Carbons Using X-ray Photoelectron Spectroscopy of Bound Metal Ions. Journal of Physical Chemistry C, 2017, 121, 26300-26307.	1.5	8
490	A new method to study the performance of safety alarm system in process operations. Journal of Loss Prevention in the Process Industries, 2018, 56, 104-118.	1.7	8
491	An Insurance Model for Risk Management of Process Facilities. Risk Analysis, 2019, 39, 713-728.	1.5	8
492	Conceptual development of an offshore resource centre in support of remote harsh environment operations. Ocean Engineering, 2020, 203, 107236.	1.9	8
493	Synthesis of a Renewable, Wasteâ€Derived Nonisocyanate Polyurethane from Fish Processing Discards and Cashew Nutshellâ€Derived Amines. Macromolecular Rapid Communications, 2021, 42, e2000339.	2.0	8
494	Consequence modelling for Arctic ship evacuations using expert knowledge. Marine Policy, 2021, 130, 104582.	1.5	8
495	An Active Learning Polynomial Chaos Kriging metamodel for reliability assessment of marine structures. Ocean Engineering, 2021, 235, 109399.	1.9	8
496	A comprehensive approach to scenario-based risk management for Arctic waters. Ship Technology Research, 2022, 69, 129-157.	1.1	8
497	Revised estimates for continuous shoreline fumigation: a PDF approach. Journal of Hazardous Materials, 2005, 118, 53-65.	6.5	7
498	On the realization of the recognition-primed decision model for artificial agents. Human-centric Computing and Information Sciences, 2019, 9, .	6.1	7
499	Integration of process safety in equipment design: A framework for academic learning activity. Education for Chemical Engineers, 2020, 30, 32-39.	2.8	7
500	Inherently safer design principles in risk management. Methods in Chemical Process Safety, 2020, 4, 379-440.	0.5	7
501	Monitoring and modeling of environmental load considering dependence and its impact on the failure probability. Ocean Engineering, 2020, 199, 107008.	1.9	7
502	An integrated methodology for dynamic risk evaluation of deepwater blowouts. Journal of Loss Prevention in the Process Industries, 2022, 74, 104647.	1.7	7
503	Estimating of Non-Darcy Flow Coefficient in Artificial Porous Media. Energies, 2022, 15, 1197.	1.6	7
504	Resilience assessment of offshore structures subjected to ice load considering complex dependencies. Reliability Engineering and System Safety, 2022, 222, 108421.	5.1	7

#	Article	IF	Citations
505	IECP â€" an approach for integrated environmental and cost evaluation of process design alternatives and its application to evaluate different NOx prevention technologies in a 125 MW thermal power plant. Energy for Sustainable Development, 2011, 15, 61-68.	2.0	6
506	Probabilistic Transgranular Stress Corrosion Cracking Analysis for Oil and Gas Pipelines. Journal of Pressure Vessel Technology, Transactions of the ASME, 2012, 134, .	0.4	6
507	Ranking Canadian universities: a quantitative approach for sustainability assessment using uD-SiM. International Journal of Sustainable Engineering, 2012, 5, 357-373.	1.9	6
508	Probability of Detection and False Detection for Subsea Leak Detection Systems: Model and Analysis. Journal of Failure Analysis and Prevention, 2015, 15, 873-882.	0.5	6
509	Availability analysis of a LNG processing plant using the Markov process. Journal of Quality in Maintenance Engineering, 2016, 22, 302-320.	1.0	6
510	Dynamic modeling of TENORM exposure risk during drilling and production. Journal of Petroleum Exploration and Production, 2018, 8, 175-188.	1.2	6
511	Using Simulator Data to Facilitate Human Reliability Analysis. Journal of Offshore Mechanics and Arctic Engineering, 2019, 141, .	0.6	6
512	A predictive model to estimate ice accumulation on ship and offshore rig. Ocean Engineering, 2019, 173, 68-76.	1.9	6
513	Validating Human Behavior Representation Model of General Personnel During Offshore Emergency Situations. Fire Technology, 2019, 55, 643-665.	1.5	6
514	Risk Analysis of Oilfield Gathering Station. Process Safety Progress, 2019, 38, 71-77.	0.4	6
515	Model-based information fusion investigation on fault isolation of subsea systems considering the interaction among subsystems and sensors. Journal of Loss Prevention in the Process Industries, 2020, 67, 104267.	1.7	6
516	Domino effect: Its prediction and preventionâ€"An overview. Methods in Chemical Process Safety, 2021, 5, 1-35.	0.5	6
517	Dynamic Railway Derailment Risk Analysis with Text-Data-Based Bayesian Network. Applied Sciences (Switzerland), 2021, 11, 994.	1.3	6
518	Environmental load estimation for offshore structures considering parametric dependencies. Safety in Extreme Environments, 2021, 3, 75-101.	1.8	6
519	Comparison of Crushed-Zone Skin Factor for Cased and Perforated Wells Calculated with and without including a Tip-Crushed Zone Effect. Geofluids, 2021, 2021, 1-13.	0.3	6
520	Data Analysis to Evaluate Reliability of a Main Engine. TransNav, 2019, 13, 403-407.	0.3	6
521	A novel methodology to develop risk-based maintenance strategies for fishing vessels. Ocean Engineering, 2022, 253, 111281.	1.9	6
522	Modeling of pool fires in cold regions. Fire Safety Journal, 2012, 48, 1-10.	1.4	5

#	Article	IF	Citations
523	Bayesian sample size determination for inspection of general corrosion of process components. Journal of Loss Prevention in the Process Industries, 2012, 25, 218-223.	1.7	5
524	Human Factor Risk Assessment During Emergency Condition in Harsh Environment. , 2013, , .		5
525	Risk-based winterization to prevent hydrate formation in northern harsh environment. Ocean Engineering, 2016, 119, 208-216.	1.9	5
526	Risk analysis of Chongqing urban rail transit network. Journal of Loss Prevention in the Process Industries, 2020, 66, 104182.	1.7	5
527	Safety and integrity management of operations in harsh environments. Safety in Extreme Environments, 2020, 2, 1-2.	1.8	5
528	Kinetic modeling of biosurfactant production by Bacillus subtilis N3-1P using brewery waste. Chemical Product and Process Modeling, 2022, 17, 331-339.	0.5	5
529	Quantifying the partial penetration skin factor for evaluating the completion efficiency of vertical oil wells. Journal of Petroleum Exploration and Production, 2021, 11, 3031-3043.	1.2	5
530	Reliability Assessment of a Main Propulsion Engine Fuel Oil System- What are the Failure-prone Components?. TransNav, 2019, 13, 415-420.	0.3	5
531	Comparison between simulation and conventional training: Expanding the concept of social fidelity. Process Safety Progress, 2022, 41, .	0.4	5
532	Offshore oil and gas development in remote harsh environments: engineering challenges and research opportunities. Safety in Extreme Environments, 2023, 5, 17-33.	1.8	5
533	Risk Based Integrity Modeling of Gas Processing Facilities using Bayesian Analysis. , 2009, , 297-306.		4
534	Reliability based inspection of nickel-based alloy welds in boiling water reactor environment. Reliability Engineering and System Safety, 2010, 95, 494-498.	5.1	4
535	Scenario Based Risk Management for Arctic Shipping and Operations. , 2014, , .		4
536	Bayesian method for event-based alarm annunciation. IFAC-PapersOnLine, 2015, 48, 832-837.	0.5	4
537	Assessing Evacuation Operation Performance in Harsh Environments. , 2015, , .		4
538	A multi-constrained maintenance scheduling optimization model for a hydrocarbon processing facility. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2015, 229, 151-168.	0.6	4
539	Risk-based maintenance and remaining life assessment for gas turbines. Journal of Quality in Maintenance Engineering, 2015, 21, 100-111.	1.0	4
540	Operational failure model for semi-submersible mobile units in harsh environments. Ocean Engineering, 2019, 191, 106332.	1.9	4

#	Article	IF	Citations
541	Predictive Alarm Generation for Chemical Processes with Unknown Disturbance. Canadian Journal of Chemical Engineering, 2019, 97, 1459-1474.	0.9	4
542	Assessing the risk of potential oil spills in the Arctic due to shipping. , 2020, , 179-193.		4
543	Modeling impacts of combustion products on humans in complex processing facilities. Process Safety Progress, 2020, 39, e12114.	0.4	4
544	Dynamic risk analysisâ€"Fundamentals. Methods in Chemical Process Safety, 2020, , 35-60.	0.5	4
545	Safety analysis of instantaneous release of compressed natural gas from a cylinder. Journal of Loss Prevention in the Process Industries, 2020, 68, 104284.	1.7	4
546	Domino effect risk management: Decision making methods. Methods in Chemical Process Safety, 2021, , 421-460.	0.5	4
547	ECOLOGICAL RISK-BASED PERFORMANCE EVALUATION OF A WASTE STABILIZATION POND. Environmental Engineering and Management Journal, 2010, 9, 757-764.	0.2	4
548	Risk-based Winterization for Vessels Operations in Arctic Environments. Journal of Ship Production and Design, 2013, 29, 199-210.	0.2	4
549	State-of-the-art in process safety and digital system. Methods in Chemical Process Safety, 2022, , 25-59.	0.5	4
550	Validation of an offshore occupational accident frequency prediction modelâ€"A practical demonstration using case studies. Process Safety Progress, 2006, 25, 160-171.	0.4	3
551	Effect of Sociocultural Cleavage on Genetic Differentiation: A Study from North India. Human Biology, 2008, 80, 271-286.	0.4	3
552	Risk Assessment and Management Using Accident Precursors Modeling in Offshore Process Operation. , 2009, , .		3
553	A Simulink model of an active island detection technique for inverter-based distributed generation. , 2013, , .		3
554	Formulation and Analysis of the Probability of Detection and False Detection for Subsea Leak Detection Systems. , 2014, , .		3
555	Conceptual framework for an event-based plant alarm system. , 2014, , .		3
556	A Barrier Based Methodology to Assess Site Security Risk. , 2015, , .		3
557	Probabilistic Modeling of Pitting Corrosion in Insulated Components Operating in Offshore Facilities. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2017, 3, .	0.7	3
558	Aquatic ecotoxicological models and their applicability in Arctic regions. Marine Pollution Bulletin, 2017, 120, 428-437.	2.3	3

#	Article	IF	Citations
559	Probabilistic Methods for Predicting the Remaining Life of Offshore Pipelines. Journal of Pressure Vessel Technology, Transactions of the ASME, 2017, 139, .	0.4	3
560	Learning process safety principles through practice. Process Safety Progress, 2018, 37, 347-354.	0.4	3
561	Dynamic risk management of assets susceptible to pitting corrosion. Corrosion Engineering Science and Technology, 2019, 54, 463-475.	0.7	3
562	Investigating Vapour Cloud Explosion Dynamic Fatality Risk on Offshore Platforms by Using a Grid-Based Framework. Processes, 2020, 8, 685.	1.3	3
563	Ecological Risk Assessment of Oil Spills in Iceâ€Covered Waters: A Surface Slick Model Coupled with a Foodâ€Web Bioaccumulation Model. Integrated Environmental Assessment and Management, 2020, 16, 729-744.	1.6	3
564	Prediction of Reservoir-Kick Effect and Its Management in the Managed-Pressure-Drilling Operation. SPE Drilling and Completion, 2021, 36, 575-602.	0.9	3
565	Predictive warning system for nonlinear process plants. Journal of Process Control, 2021, 100, 1-10.	1.7	3
566	Risk-based Winterization on a North Atlantic-based Ferry Design. Journal of Ship Production and Design, 2016, 32, 99-109.	0.2	3
567	Application of data mining to minimize fireâ€induced domino effect risks. Risk Analysis, 2023, 43, 571-589.	1.5	3
568	Statistical approaches and artificial neural networks for process monitoring. Methods in Chemical Process Safety, 2022, , .	0.5	3
569	Opportunities and threats to process safety in digitalized process systemsâ€”An overview. Methods in Chemical Process Safety, 2022, , .	0.5	3
570	Overpressure Effects. , 2013, , 43-69.		2
571	Quantitative Assessment of Risk Caused by Domino Accidents. , 2013, , 208-228.		2
572	Estimating design temperatures in Arctic environments: A new approach. , 2014, , .		2
573	Introduction to special issue on â€œEuropean Process Safety Pioneersâ€• Journal of Loss Prevention in the Process Industries, 2014, 28, 1.	1.7	2
574	Risk-Based Evaluation of Subsea Pipeline Leak Detection Technologies. , 2015, , .		2
575	Failure Analysis of the Tripping Operation and its Impact on Well Control. , 2015, , .		2
576	Inherent Safety Aspects for Layout Design of a Floating LNG Facility. , 2015, , .		2

#	Article	IF	Citations
577	Using Simulator Data to Facilitate Human Reliability Analysis in Offshore Emergency Situations. , 2018, , .		2
578	Auxiliary codes for fault prognosis of Tennessee Eastman process using a hybrid model (CPL1.0). SoftwareX, 2019, 10, 100309.	1.2	2
579	Logicâ€based probabilistic network model to detect and track faults in a process system. Process Safety Progress, 2020, 39, e12110.	0.4	2
580	Evolving extreme events caused by climate change: A tail based Bayesian approach for extreme event risk analysis. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 0, , 1748006X2199103.	0.6	2
581	A New Evaluation of Skin Factor in Inclined Wells with Anisotropic Permeability. Energies, 2021, 14, 5585.	1.6	2
582	Domino effect assessment in the framework of industry 4.0. Methods in Chemical Process Safety, 2021, 5, 495-517.	0.5	2
583	Alternative Prediction Models for Data Scarce Environment. Computer Aided Chemical Engineering, 2015, 37, 665-670.	0.3	2
584	A new assessment of perforation skin factor for vertical perforated wells in near-wellbore region. Journal of Petroleum Exploration and Production, 0, , 1.	1.2	2
585	A Probabilistic Risk Assessment of Offshore Flaring Systems Using Bayesian Network. Springer Transactions in Civil and Environmental Engineering, 2020, , 121-131.	0.3	2
586	A Connectionist Model for Dynamic Economic Risk Analysis of Hydrocarbons Production Systems. Risk Analysis, 2022, 42, 1541-1570.	1.5	2
587	Corrosion behavior of aluminium alloys 2024 and 7075 under simulated marine environment. Safety in Extreme Environments, 2021, 3, 237-251.	1.8	2
588	A methodology for time-varying resilience quantification of an offshore natural gas pipeline. Journal of Pipeline Science and Engineering, 2022, 2, 100054.	2.4	2
589	Risk assessment in Industry 4.0. Methods in Chemical Process Safety, 2022, , .	0.5	2
590	Logic-Based Data-Driven Operational Risk Model for Augmented Downhole Petroleum Production Systems. Computers and Chemical Engineering, 2022, , 107914.	2.0	2
591	Risk-Based Inspection and Maintenance (RBIM) of Power Plants. Springer Series in Reliability Engineering, 2012, , 249-279.	0.3	1
592	Application of Probabilistic Methods for Predicting the Remaining Life of Offshore Pipelines. , 2014, , .		1
593	Risk-based warning system design methodology for multimode processes. IFAC-PapersOnLine, 2015, 48, 663-668.	0.5	1
594	An Accident Model for Arctic Shipping. , 2015, , .		1

#	Article	IF	Citations
595	An Approximate Modelling Method for Industrial l-lysine Fermentation Process. Computer Aided Chemical Engineering, 2015, , 461-466.	0.3	1
596	System availability enhancement using computational intelligenceâ€“based decision tree predictive model. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2015, 229, 612-626.	0.6	1
597	Probabilistic Performance Assessment of Fiber Optic Leak Detection Systems. Journal of Offshore Mechanics and Arctic Engineering, 2016, 138, .	0.6	1
598	Predictive Abnormal Events Analysis Using Continuous Bayesian Network. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2017, 3, .	0.7	1
599	Human performance data collected in a virtual environment. Data in Brief, 2017, 15, 213-215.	0.5	1
600	A Numerical and Experimental Study of Kick Dynamics at Downhole. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2018, 4, .	0.7	1
601	Bowtie Analysis without Expert Acquisition for Safety Effect Assessments of Cooperative Intelligent Transport Systems. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2018, 4, 04018036.	1.1	1
602	Simultaneous Estimation of Hidden State and Unknown Input Using Expectation Maximization Algorithm. Industrial & Engineering Chemistry Research, 2019, 58, 11553-11565.	1.8	1
603	Management of nuclear radioactive materials produced with oil and gas extraction and production. , 2020, , 159-196.		1
604	Editorial: SI on reliability and safety in offshore and marine engineering. Journal of Loss Prevention in the Process Industries, 2020, 67, 104255.	1.7	1
605	Emergency preparedness for management of main propulsion engine failure on a bulker during harsh weather at sea. Safety in Extreme Environments, 2020, 2, 103-111.	1.8	1
606	Simulation of sourâ€•oxicâ€•nitrite chemical environment in oil and gas facilities. Canadian Journal of Chemical Engineering, 2021, 99, .	0.9	1
607	Application of Bayesian network to domino effect assessment. , 2021, , 49-71.		1
608	Dynamic Risk Analysis Using Imprecise and Incomplete Information. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2019, 5, .	0.7	1
609	Efficiency, safety, and reliability analysis of turbocharging in a large container vessel. Process Safety Progress, 0, , .	0.4	1
610	An integrated health risk assessment with control banding for nanomaterials exposure. Process Safety Progress, 0, , .	0.4	1
611	Probabilistic Performance Assessment of Fiber Optic Leak Detection Systems. , 2014, , .		0
612	Comparison of Micro X-ray Computer Tomography Image Segmentation Methods: Artificial Neural Networks Versus Least Square Support Vector Machine. Lecture Notes in Earth System Sciences, 2014, , 141-145.	0.5	0

#	Article	IF	Citations
613	Risk Based Assessment of Gas Turbines in Pipeline Service. , 2014, , .		0
614	Grey Model for Accident Prediction in Data-Scarce Environment. , 2015, , 411-418.		0
615	Multiphase Hydrate Induction Experiment in a Subsea Pipeline. , 2015, , .		0
616	Quantitative risk assessment and dynamic accident modeling of TENORM occupational exposure in the oil and gas industry using SMART approach. , 2020, , 125-157.		0
617	An overview of operational and occupational safety in onshore and offshore oil and gas extraction and production processes. , 2020, , 1-49.		0
618	Dataset for estimating occurrence probability of causations for plugged, abandoned and decommissioned oil and gas wells. Data in Brief, 2020, 31, 105988.	0.5	0
619	Reliability Analysis of Dependent Systems using Copula Bayesian Networks: A Case Study. IOP Conference Series: Materials Science and Engineering, 2021, 1043, 032034.	0.3	0
620	A knowledge elicitation study to inform the development of a consequence model for Arctic ship evacuations: Qualitative and quantitative data. Data in Brief, 2021, 39, 107612.	0.5	0
621	The Performance of Zn-Ni Alloy Coating Electrodeposited from Stabilized Bath. Materials Science Forum, 0, 1058, 149-155.	0.3	0
622	Dynamic operational risk assessment in process safety management. Methods in Chemical Process Safety, 2022, , .	0.5	0