

# Faisal Khan

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Application of data mining to minimize fire-induced domino effect risks. Risk Analysis, 2023, 43, 571-589.	1.5	3
2	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
3	Kinetic modeling of biosurfactant production by <i>Bacillus subtilis</i> N3-1P using brewery waste. Chemical Product and Process Modeling, 2022, 17, 331-339.	0.5	5
4	An integrated methodology for dynamic risk evaluation of deepwater blowouts. Journal of Loss Prevention in the Process Industries, 2022, 74, 104647.	1.7	7
5	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
6	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
7	Capsizing accident scenario model for small fishing trawler. Safety Science, 2022, 145, 105500.	2.6	10
8	A Connectionist Model for Dynamic Economic Risk Analysis of Hydrocarbons Production Systems. Risk Analysis, 2022, 42, 1541-1570.	1.5	2
9	Operational subsea pipeline assessment affected by multiple defects of microbiologically influenced corrosion. Chemical Engineering Research and Design, 2022, 158, 159-171.	2.7	37
10	Myths and misconceptions of data-driven methods: Applications to process safety analysis. Computers and Chemical Engineering, 2022, 158, 107639.	2.0	10
11	Removal of copper from sulfate solutions using biochar derived from crab processing by-product. Journal of Environmental Management, 2022, 303, 114270.	3.8	9
12	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
13	Estimating of Non-Darcy Flow Coefficient in Artificial Porous Media. Energies, 2022, 15, 1197.	1.6	7
14	Resilience assessment of a subsea pipeline using dynamic Bayesian network. Journal of Pipeline Science and Engineering, 2022, 2, 100053.	2.4	36
15	A comprehensive approach to scenario-based risk management for Arctic waters. Ship Technology Research, 2022, 69, 129-157.	1.1	8
16	Analyzing operational risk for small fishing vessels considering crew effectiveness. Ocean Engineering, 2022, 249, 110512.	1.9	9
17	Review and analysis of the hydrogen production technologies from a safety perspective. International Journal of Hydrogen Energy, 2022, 47, 13990-14007.	3.8	50
18	Comparison between simulation and conventional training: Expanding the concept of social fidelity. Process Safety Progress, 2022, 41, .	0.4	5

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19	Resilience assessment of offshore structures subjected to ice load considering complex dependencies. Reliability Engineering and System Safety, 2022, 222, 108421.	5.1	7
20	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
21	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
22	Dynamic operational risk assessment in process safety management. Methods in Chemical Process Safety, 2022, , .	0.5	0
23	A novel methodology to develop risk-based maintenance strategies for fishing vessels. Ocean Engineering, 2022, 253, 111281.	1.9	6
24	Resilience assessment framework for fast response process systems. Chemical Engineering Research and Design, 2022, 163, 82-93.	2.7	11
25	State-of-the-art in process safety and digital system. Methods in Chemical Process Safety, 2022, , 25-59.	0.5	4
26	Statistical approaches and artificial neural networks for process monitoring. Methods in Chemical Process Safety, 2022, , .	0.5	3
27	Risk assessment in Industry 4.0. Methods in Chemical Process Safety, 2022, , .	0.5	2
28	Vulnerability assessment method for domino effects analysis in chemical clusters. Chemical Engineering Research and Design, 2022, 164, 539-554.	2.7	10
29	A dynamic human-factor risk model to analyze safety in sociotechnical systems. Chemical Engineering Research and Design, 2022, 164, 479-498.	2.7	26
30	A general method to combine environmental and life-safety consequences of Arctic ship accidents. Safety Science, 2022, 154, 105855.	2.6	10
31	Opportunities and threats to process safety in digitalized process systems—An overview. Methods in Chemical Process Safety, 2022, , .	0.5	3
32	Logic-Based Data-Driven Operational Risk Model for Augmented Downhole Petroleum Production Systems. Computers and Chemical Engineering, 2022, , 107914.	2.0	2
33	Influence of chloride and pH on the pitting mechanism of Zn–Ni alloy coating in sodium chloride solutions. Canadian Journal of Chemical Engineering, 2021, 99, 680-694.	0.9	12
34	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
35	Hybrid connectionist models to assess recovery performance of low salinity water injection. Journal of Petroleum Science and Engineering, 2021, 197, 107833.	2.1	20
36	A dynamic risk model to analyze hydrogen infrastructure. International Journal of Hydrogen Energy, 2021, 46, 4626-4643.	3.8	63

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37	Process safety concerns in process system digitalization. Education for Chemical Engineers, 2021, 34, 33-46.	2.8	41
38	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
39	Operational risk analysis of blowout scenario in offshore drilling operation. Chemical Engineering Research and Design, 2021, 149, 422-431.	2.7	34
40	An analysis of process fault diagnosis methods from safety perspectives. Computers and Chemical Engineering, 2021, 145, 107197.	2.0	69
41	A sequence-based method for dynamic reliability assessment of MPD systems. Chemical Engineering Research and Design, 2021, 146, 927-942.	2.7	13
42	Simulation of sour and toxic nitrite chemical environment in oil and gas facilities. Canadian Journal of Chemical Engineering, 2021, 99, .	0.9	1
43	Early Detection and Estimation of Kick in Managed Pressure Drilling. SPE Drilling and Completion, 2021, 36, 245-262.	0.9	9
44	Inherently safer design protocol for process hazard analysis. Chemical Engineering Research and Design, 2021, 149, 199-211.	2.7	24
45	Subsea Pipelines Leak-Modeling Using Computational Fluid Dynamics Approach. Journal of Pipeline Systems Engineering and Practice, 2021, 12, .	0.9	9
46	Synthesis of a Renewable, Waste-Derived Nonisocyanate Polyurethane from Fish Processing Discards and Cashew Nutshell-Derived Amines. Macromolecular Rapid Communications, 2021, 42, e2000339.	2.0	8
47	Domino effect: Its prediction and prevention—An overview. Methods in Chemical Process Safety, 2021, 5, 1-35.	0.5	6
48	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
49	Dynamic Railway Derailment Risk Analysis with Text-Data-Based Bayesian Network. Applied Sciences (Switzerland), 2021, 11, 994.	1.3	6
50	Domino effect risk management: Decision making methods. Methods in Chemical Process Safety, 2021, , 421-460.	0.5	4
51	The role of inherently safer design in process safety. Canadian Journal of Chemical Engineering, 2021, 99, 853-871.	0.9	40
52	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
53	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
54	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

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55	Dynamic risk analysis of marine and offshore systems suffering microbial induced stochastic degradation. Reliability Engineering and System Safety, 2021, 207, 107388.	5.1	34
56	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
57	Microbiologically influenced corrosion (MIC) management using Bayesian inference. Ocean Engineering, 2021, 226, 108852.	1.9	45
58	Dynamic resilience assessment of the Marine LNG offloading system. Reliability Engineering and System Safety, 2021, 208, 107368.	5.1	25
59	A probabilistic model to estimate microbiologically influenced corrosion rate. Chemical Engineering Research and Design, 2021, 148, 908-926.	2.7	24
60	Predictive warning system for nonlinear process plants. Journal of Process Control, 2021, 100, 1-10.	1.7	3
61	Dynamic analysis for fire-induced domino effects in chemical process industries. Chemical Engineering Research and Design, 2021, 148, 686-697.	2.7	37
62	A food chain-based ecological risk assessment model for oil spills in the Arctic environment. Marine Pollution Bulletin, 2021, 166, 112164.	2.3	20
63	Quantitative assessment of leakage orifices within gas pipelines using a Bayesian network. Reliability Engineering and System Safety, 2021, 209, 107438.	5.1	34
64	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
65	Reliability assessment of marine structures considering multidimensional dependency of the variables. Ocean Engineering, 2021, 230, 109021.	1.9	13
66	A data-driven Bayesian network learning method for process fault diagnosis. Chemical Engineering Research and Design, 2021, 150, 110-122.	2.7	116
67	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
68	Environmental load estimation for offshore structures considering parametric dependencies. Safety in Extreme Environments, 2021, 3, 75-101.	1.8	6
69	Risk analysis of man overboard scenario in a small fishing vessel. Ocean Engineering, 2021, 229, 108979.	1.9	11
70	Pandemic risk management using engineering safety principles. Chemical Engineering Research and Design, 2021, 150, 416-432.	2.7	11
71	Importance of human reliability in process operation: A critical analysis. Reliability Engineering and System Safety, 2021, 211, 107607.	5.1	47
72	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

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73	Comparison of Crushed-Zone Skin Factor for Cased and Perforated Wells Calculated with and without including a Tip-Crushed Zone Effect. <i>Geofluids</i> , 2021, 2021, 1-13.	0.3	6
74	Dynamic risk modeling of complex hydrocarbon production systems. <i>Chemical Engineering Research and Design</i> , 2021, 151, 71-84.	2.7	30
75	Application of bow tie analysis and inherently safer design to the novel coronavirus hazard. <i>Chemical Engineering Research and Design</i> , 2021, 152, 701-718.	2.7	10
76	Consequence modelling for Arctic ship evacuations using expert knowledge. <i>Marine Policy</i> , 2021, 130, 104582.	1.5	8
77	Probabilistic fatigue failure assessment of free spanning subsea pipeline using dynamic Bayesian network. <i>Ocean Engineering</i> , 2021, 234, 109323.	1.9	36
78	A data-driven corrosion prediction model to support digitization of subsea operations. <i>Chemical Engineering Research and Design</i> , 2021, 153, 413-421.	2.7	47
79	A novel fuzzy dynamic Bayesian network for dynamic risk assessment and uncertainty propagation quantification in uncertainty environment. <i>Safety Science</i> , 2021, 141, 105285.	2.6	52
80	Review of hydrogen safety during storage, transmission, and applications processes. <i>Journal of Loss Prevention in the Process Industries</i> , 2021, 72, 104569.	1.7	153
81	Recent development in electrocatalysts for hydrogen production through water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 32284-32317.	3.8	236
82	A New Evaluation of Skin Factor in Inclined Wells with Anisotropic Permeability. <i>Energies</i> , 2021, 14, 5585.	1.6	2
83	Cross-country pipeline inspection data analysis and testing of probabilistic degradation models. <i>Journal of Pipeline Science and Engineering</i> , 2021, 1, 308-320.	2.4	13
84	An Active Learning Polynomial Chaos Kriging metamodel for reliability assessment of marine structures. <i>Ocean Engineering</i> , 2021, 235, 109399.	1.9	8
85	Dynamic failure probability analysis of urban gas pipeline network. <i>Journal of Loss Prevention in the Process Industries</i> , 2021, 72, 104552.	1.7	15
86	Carbon Quantum Dot-Incorporated Chitosan Hydrogel for Selective Sensing of Hg <sup>2+</sup> Ions: Synthesis, Characterization, and Density Functional Theory Calculation. <i>ACS Omega</i> , 2021, 6, 23504-23514.	1.6	26
87	Data-driven operational failure likelihood model for microbiologically influenced corrosion. <i>Chemical Engineering Research and Design</i> , 2021, 153, 472-485.	2.7	17
88	Risk-based fault prediction of chemical processes using operable adaptive sparse identification of systems (OASIS). <i>Computers and Chemical Engineering</i> , 2021, 152, 107378.	2.0	36
89	Risk assessment of offshore fire accidents caused by subsea gas release. <i>Applied Ocean Research</i> , 2021, 115, 102828.	1.8	16
90	A deep learning model for process fault prognosis. <i>Chemical Engineering Research and Design</i> , 2021, 154, 467-479.	2.7	80

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91	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
92	Corrosion risk assessment using adaptive bow-tie (ABT) analysis. Reliability Engineering and System Safety, 2021, 214, 107731.	5.1	34
93	Combining porosity and resistivity logs for pore pressure prediction. Journal of Petroleum Science and Engineering, 2021, 205, 108819.	2.1	10
94	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
95	A Review of Risk Analysis Research for the Operations of Autonomous Underwater Vehicles. Reliability Engineering and System Safety, 2021, 216, 108011.	5.1	35
96	Domino effect assessment in the framework of industry 4.0. Methods in Chemical Process Safety, 2021, 5, 495-517.	0.5	2
97	Application of Bayesian network to domino effect assessment. , 2021, , 49-71.		1
98	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
99	Corrosion behavior of aluminium alloys 2024 and 7075 under simulated marine environment. Safety in Extreme Environments, 2021, 3, 237-251.	1.8	2
100	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
101	Identifying route selection strategies in offshore emergency situations using decision trees. Reliability Engineering and System Safety, 2020, 194, 106179.	5.1	22
102	Dynamic risk assessment of reservoir production using data-driven probabilistic approach. Journal of Petroleum Science and Engineering, 2020, 184, 106486.	2.1	21
103	A conditional dependence-based marine logistics support risk model. Reliability Engineering and System Safety, 2020, 193, 106623.	5.1	18
104	Quantitative risk assessment and dynamic accident modeling of TENORM occupational exposure in the oil and gas industry using SMART approach. , 2020, , 125-157.		0
105	An overview of operational and occupational safety in onshore and offshore oil and gas extraction and production processes. , 2020, , 1-49.		0
106	Management of nuclear radioactive materials produced with oil and gas extraction and production. , 2020, , 159-196.		1
107	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
108	A time-dependent probabilistic model for fire accident analysis. Fire Safety Journal, 2020, 111, 102891.	1.4	25

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109	Bayesian Stochastic Petri Nets (BSPN) - A new modelling tool for dynamic safety and reliability analysis. <i>Reliability Engineering and System Safety</i> , 2020, 193, 106587.	5.1	60
110	Integration of process safety in equipment design: A framework for academic learning activity. <i>Education for Chemical Engineers</i> , 2020, 30, 32-39.	2.8	7
111	Fault detection and diagnosis in process system using artificial intelligence-based cognitive technique. <i>Computers and Chemical Engineering</i> , 2020, 134, 106697.	2.0	53
112	Process Safety Assessment Considering Multivariate Non-linear Dependence Among Process Variables. <i>Chemical Engineering Research and Design</i> , 2020, 135, 70-80.	2.7	23
113	Assessing the risk of potential oil spills in the Arctic due to shipping. , 2020, , 179-193.		4
114	A hybrid human reliability assessment technique for the maintenance operations of marine and offshore systems. <i>Process Safety Progress</i> , 2020, 39, e12118.	0.4	25
115	An explorative object-oriented Bayesian network model for oil spill response in the Arctic Ocean. <i>Safety in Extreme Environments</i> , 2020, 2, 3-14.	1.8	14
116	A CAST-based causal analysis of the catastrophic underground pipeline gas explosion in Taiwan. <i>Engineering Failure Analysis</i> , 2020, 108, 104343.	1.8	23
117	Modeling impacts of combustion products on humans in complex processing facilities. <i>Process Safety Progress</i> , 2020, 39, e12114.	0.4	4
118	Logic-based probabilistic network model to detect and track faults in a process system. <i>Process Safety Progress</i> , 2020, 39, e12110.	0.4	2
119	An integrated dynamic failure assessment model for offshore components under microbiologically influenced corrosion. <i>Ocean Engineering</i> , 2020, 218, 108082.	1.9	29
120	Dataset for estimating occurrence probability of causations for plugged, abandoned and decommissioned oil and gas wells. <i>Data in Brief</i> , 2020, 31, 105988.	0.5	0
121	How can process safety and a risk management approach guide pandemic risk management?. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 68, 104310.	1.7	17
122	Rare event risk analysis – application to iceberg collision. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 66, 104199.	1.7	10
123	Gamma ray log generation from drilling parameters using deep learning. <i>Journal of Petroleum Science and Engineering</i> , 2020, 195, 107906.	2.1	21
124	Assessment of cross-reactivity in a tailor-made molecularly imprinted polymer for phenolic compounds using four adsorption isotherm models. <i>Journal of Chromatography A</i> , 2020, 1629, 461463.	1.8	11
125	Editorial: SI on reliability and safety in offshore and marine engineering. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 67, 104255.	1.7	1
126	Inherently safer design principles in risk management. <i>Methods in Chemical Process Safety</i> , 2020, 4, 379-440.	0.5	7



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127	Dynamic risk analysisâ€”Fundamentals. <i>Methods in Chemical Process Safety</i> , 2020, , 35-60.	0.5	4
128	Data-driven early warning model for screenout scenarios in shale gas fracturing operation. <i>Computers and Chemical Engineering</i> , 2020, 143, 107116.	2.0	13
129	Safety analysis of instantaneous release of compressed natural gas from a cylinder. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 68, 104284.	1.7	4
130	Model-based information fusion investigation on fault isolation of subsea systems considering the interaction among subsystems and sensors. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 67, 104267.	1.7	6
131	Risk analysis of Chongqing urban rail transit network. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 66, 104182.	1.7	5
132	Data-driven Bayesian network model for early kick detection in industrial drilling process. <i>Chemical Engineering Research and Design</i> , 2020, 138, 130-138.	2.7	44
133	Human reliability assessment for complex physical operations in harsh operating conditions. <i>Chemical Engineering Research and Design</i> , 2020, 140, 1-13.	2.7	30
134	Could pool fire alone cause a domino effect?. <i>Reliability Engineering and System Safety</i> , 2020, 202, 106976.	5.1	30
135	A Dynamic Bayesian Network model for ship-ice collision risk in the Arctic waters. <i>Safety Science</i> , 2020, 130, 104858.	2.6	101
136	Improved DEMATEL methodology for effective safety management decision-making. <i>Safety Science</i> , 2020, 127, 104705.	2.6	208
137	Emergency preparedness for management of main propulsion engine failure on a bulkier during harsh weather at sea. <i>Safety in Extreme Environments</i> , 2020, 2, 103-111.	1.8	1
138	Investigating Vapour Cloud Explosion Dynamic Fatality Risk on Offshore Platforms by Using a Grid-Based Framework. <i>Processes</i> , 2020, 8, 685.	1.3	3
139	Safety and integrity management of operations in harsh environments. <i>Safety in Extreme Environments</i> , 2020, 2, 1-2.	1.8	5
140	A novel approach for domino effects modeling and risk analysis based on synergistic effect and accident evidence. <i>Reliability Engineering and System Safety</i> , 2020, 203, 107109.	5.1	34
141	Electrochemical analysis of an electrodeposited Zn-Ni alloy films contained EDTA stable baths in 3.5â€”wt% NaCl solutions. <i>Materials Today: Proceedings</i> , 2020, 28, 532-537.	0.9	11
142	Corrosion behaviour of Zn-Ni alloy and Zn-Ni-nano-TiO <sub>2</sub> composite coatings electrodeposited from ammonium citrate baths. <i>Chemical Engineering Research and Design</i> , 2020, 141, 366-379.	2.7	29
143	Risk assessment of Arctic aquatic species using ecotoxicological biomarkers and Bayesian network. <i>Marine Pollution Bulletin</i> , 2020, 156, 111212.	2.3	10
144	Precautionary Principle (PP) versus As Low As Reasonably Practicable (ALARP): Which one to use and when. <i>Chemical Engineering Research and Design</i> , 2020, 137, 158-168.	2.7	17

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145	A variable mosquito flying optimization-based hybrid artificial neural network model for the alarm tuning of process fault detection systems. <i>Process Safety Progress</i> , 2020, 39, e12122.	0.4	13
146	Methodological improvements in the risk analysis of an urban hydrogen fueling station. <i>Journal of Cleaner Production</i> , 2020, 257, 120545.	4.6	31
147	Real-time leak detection using an infrared camera and Faster R-CNN technique. <i>Computers and Chemical Engineering</i> , 2020, 135, 106780.	2.0	47
148	Monitoring and modeling of environmental load considering dependence and its impact on the failure probability. <i>Ocean Engineering</i> , 2020, 199, 107008.	1.9	7
149	A simple yet robust resilience assessment metrics. <i>Reliability Engineering and System Safety</i> , 2020, 197, 106810.	5.1	61
150	Integration of Resilience and FRAM for Safety Management. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2020, 6, .	1.1	10
151	Risk-based safety measure allocation to prevent and mitigate storage fire hazards. <i>Chemical Engineering Research and Design</i> , 2020, 135, 282-293.	2.7	55
152	Comparison of Four Adsorption Isotherm Models for Characterizing Molecular Recognition of Individual Phenolic Compounds in Porous Tailor-Made Molecularly Imprinted Polymer Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 11998-12009.	4.0	69
153	A Framework for Integrating Life-Safety and Environmental Consequences into Conventional Arctic Shipping Risk Models. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2937.	1.3	14
154	Conceptual development of an offshore resource centre in support of remote harsh environment operations. <i>Ocean Engineering</i> , 2020, 203, 107236.	1.9	8
155	Supervised data-driven approach to early kick detection during drilling operation. <i>Journal of Petroleum Science and Engineering</i> , 2020, 192, 107324.	2.1	34
156	Ecological Risk Assessment of Oil Spills in Ice-Covered Waters: A Surface Slick Model Coupled with a Food-Web Bioaccumulation Model. <i>Integrated Environmental Assessment and Management</i> , 2020, 16, 729-744.	1.6	3
157	Data-driven model for shear wave transit time prediction for formation evaluation. <i>Journal of Petroleum Exploration and Production</i> , 2020, 10, 1429-1447.	1.2	17
158	Operational safety assessment of offshore pipeline with multiple MIC defects. <i>Computers and Chemical Engineering</i> , 2020, 138, 106819.	2.0	29
159	Stochastic explosion risk analysis of hydrogen production facilities. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 13535-13550.	3.8	31
160	A novel data-driven methodology for fault detection and dynamic risk assessment. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 2397-2416.	0.9	46
161	Dynamic ecological risk modelling of hydrocarbon release scenarios in Arctic waters. <i>Marine Pollution Bulletin</i> , 2020, 153, 111001.	2.3	30
162	Advanced methods of risk assessment and management: An overview. <i>Methods in Chemical Process Safety</i> , 2020, , 1-34.	0.5	17

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163	PC-SAFT/UNIQUAC model assesses formation condition of methane hydrate in the presence of imidazolium-based ionic liquid systems. <i>Fuel</i> , 2020, 266, 116757.	3.4	13
164	A hybrid intelligent model for reservoir production and associated dynamic risks. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 83, 103512.	2.1	13
165	Combining uncertainty reasoning and deterministic modeling for risk analysis of fire-induced domino effects. <i>Safety Science</i> , 2020, 129, 104802.	2.6	33
166	A Probabilistic Risk Assessment of Offshore Flaring Systems Using Bayesian Network. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2020, , 121-131.	0.3	2
167	Integrated risk management of hazardous processing facilities. <i>Process Safety Progress</i> , 2019, 38, 42-51.	0.4	15
168	Modeling and simulation of offshore personnel during emergency situations. <i>Safety Science</i> , 2019, 111, 144-153.	2.6	16
169	Optimization of biosurfactant production by <i>Bacillus Subtilis</i> N3-1P using the brewery waste as the carbon source. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 3371-3380.	1.2	39
170	Auxiliary codes for fault prognosis of Tennessee Eastman process using a hybrid model (CPL1.0). <i>SoftwareX</i> , 2019, 10, 100309.	1.2	2
171	Methodology to analyse LNG spill on steel structure in congested marine offshore facility. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 62, 103936.	1.7	12
172	Risk analysis of well blowout scenarios during managed pressure drilling operation. <i>Journal of Petroleum Science and Engineering</i> , 2019, 182, 106296.	2.1	23
173	Accidental release of Liquefied Natural Gas in a processing facility: Effect of equipment congestion level on dispersion behaviour of the flammable vapour. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 61, 237-248.	1.7	29
174	Operational failure model for semi-submersible mobile units in harsh environments. <i>Ocean Engineering</i> , 2019, 191, 106332.	1.9	4
175	Numerical analysis of performances of passive fire protections in processing facilities. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 62, 103970.	1.7	17
176	Iron and aluminum powder explosibility in 20-L and 1-m <sup>3</sup> test chambers. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 62, 103927.	1.7	30
177	A bibliometric analysis of process system failure and reliability literature. <i>Engineering Failure Analysis</i> , 2019, 106, 104152.	1.8	19
178	Niacin, lycopodium and polyethylene powder explosibility in 20-L and 1-m <sup>3</sup> test chambers. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 62, 103937.	1.7	15
179	Robust Process Monitoring Methodology for Detection and Diagnosis of Unobservable Faults. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 19149-19165.	1.8	38
180	Dynamic risk-based inspection methodology. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 62, 103974.	1.7	22

#	ARTICLE	IF	CITATIONS
181	Hierarchical Bayesian model for failure analysis of offshore wells during decommissioning and abandonment processes. <i>Chemical Engineering Research and Design</i> , 2019, 131, 307-319.	2.7	18
182	Review: Removal of Thiosalt/Sulfate from Mining Effluents by Adsorption and Ion Exchange. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2019, 40, 79-86.	2.6	9
183	Copula-based Bayesian network model for process system risk assessment. <i>Chemical Engineering Research and Design</i> , 2019, 123, 317-326.	2.7	56
184	Development of risk model for marine logistics support to offshore oil and gas operations in remote and harsh environments. <i>Ocean Engineering</i> , 2019, 174, 125-134.	1.9	30
185	A decision support tool for bi-objective risk-based maintenance scheduling of an LNG gas sweetening unit. <i>Journal of Quality in Maintenance Engineering</i> , 2019, 25, 65-89.	1.0	18
186	Process Fault Prognosis Using Hidden Markov Model&#x2013;Bayesian Networks Hybrid Model. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 12041-12053.	1.8	31
187	Role of particle diameter in the lower flammability limits of hybrid mixtures containing coal dust and methane gas. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 61, 206-212.	1.7	10
188	Analysis on accident-causing factors of urban buried gas pipeline network by combining DEMATEL, ISM and BN methods. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 61, 49-57.	1.7	77
189	Optimization of zinc&#x2013;nickel film electrodeposition for better corrosion resistant characteristics. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 2426-2439.	0.9	19
190	Artificial bee colony Based Bayesian Regularization Artificial Neural Network approach to model transient flammable cloud dispersion in congested area. <i>Chemical Engineering Research and Design</i> , 2019, 128, 121-127.	2.7	22
191	Dynamic risk management of assets susceptible to pitting corrosion. <i>Corrosion Engineering Science and Technology</i> , 2019, 54, 463-475.	0.7	3
192	A cellular automation model for convoy traffic in Arctic waters. <i>Cold Regions Science and Technology</i> , 2019, 164, 102783.	1.6	19
193	Modelling an integrated impact of fire, explosion and combustion products during transitional events caused by an accidental release of LNG. <i>Chemical Engineering Research and Design</i> , 2019, 128, 259-272.	2.7	81
194	Using Simulator Data to Facilitate Human Reliability Analysis. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2019, 141, .	0.6	6
195	Simultaneous Estimation of Hidden State and Unknown Input Using Expectation Maximization Algorithm. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 11553-11565.	1.8	1
196	Arctic marine fish &#x2013;biotransformation toxicity&#x2013;TM model for ecological risk assessment. <i>Marine Pollution Bulletin</i> , 2019, 142, 408-418.	2.3	14
197	A bibliometric review of process safety and risk analysis. <i>Chemical Engineering Research and Design</i> , 2019, 126, 366-381.	2.7	111
198	FSEM: An approach to model contribution of synergistic effect of fires for domino effects. <i>Reliability Engineering and System Safety</i> , 2019, 189, 271-278.	5.1	45

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203	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
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222	Predictive Alarm Generation for Chemical Processes with Unknown Disturbance. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 1459-1474.	0.9	4
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228	An integrated approach for dynamic economic risk assessment of process systems. <i>Chemical Engineering Research and Design</i> , 2018, 116, 312-323.	2.7	30
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230	Risk-Based Domino Effect Analysis for Fire and Explosion Accidents Considering Uncertainty in Processing Facilities. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 3990-4006.	1.8	39
231	Data-driven dynamic risk analysis of offshore drilling operations. <i>Journal of Petroleum Science and Engineering</i> , 2018, 165, 444-452.	2.1	49
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238	A Numerical and Experimental Study of Kick Dynamics at Downhole. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2018, 4, .	0.7	1
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246	An operational risk analysis tool to analyze marine transportation in Arctic waters. <i>Reliability Engineering and System Safety</i> , 2018, 169, 485-502.	5.1	126
247	Safety assessment of natural gas purification plant. <i>Chemical Engineering Research and Design</i> , 2018, 113, 459-466.	2.7	15
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250	Incorporating individual differences in human reliability analysis: An extension to the virtual experimental technique. <i>Safety Science</i> , 2018, 107, 216-223.	2.6	21
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258	Review and analysis of microbiologically influenced corrosion: the chemical environment in oil and gas facilities. <i>Corrosion Engineering Science and Technology</i> , 2018, 53, 549-563.	0.7	28
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264	Risk assessment of process system considering dependencies. <i>Journal of Loss Prevention in the Process Industries</i> , 2018, 55, 204-212.	1.7	16
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272	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
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304	Real time risk analysis of kick detection: Testing and validation. <i>Reliability Engineering and System Safety</i> , 2017, 161, 25-37.	5.1	43
305	Failure probability analysis of the urban buried gas pipelines using Bayesian networks. <i>Chemical Engineering Research and Design</i> , 2017, 111, 678-686.	2.7	104
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359	Technologically Enhanced Naturally Occurring Radioactive Materials in oil and gas production: A silent killer. <i>Chemical Engineering Research and Design</i> , 2016, 99, 237-247.	2.7	33
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