

Rouzbeh Ra Abbassi

List of Publications by Year in descending order

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Version: 2024-02-01

140
papers

6,163
citations

53660

45
h-index

85405

71
g-index

143
all docs

143
docs citations

143
times ranked

3863
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance assessment of innovative constructed wetland-microbial fuel cell for electricity production and dye removal. <i>Ecological Engineering</i> , 2012, 47, 126-131.	1.6	326
2	Modelling of pitting corrosion in marine and offshore steel structures – A technical review. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 37, 39-62.	1.7	305
3	Improved DEMATEL methodology for effective safety management decision-making. <i>Safety Science</i> , 2020, 127, 104705.	2.6	208
4	Removal of fluoride from aqueous solution and groundwater by wheat straw, sawdust and activated bagasse carbon of sugarcane. <i>Ecological Engineering</i> , 2013, 52, 211-218.	1.6	192
5	Marine transportation risk assessment using Bayesian Network: Application to Arctic waters. <i>Ocean Engineering</i> , 2018, 159, 422-436.	1.9	164
6	Risk analysis of deepwater drilling operations using Bayesian network. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 38, 11-23.	1.7	161
7	A hybrid model for human factor analysis in process accidents: FBN-HFACS. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 57, 142-155.	1.7	135
8	Corrosion induced failure analysis of subsea pipelines. <i>Reliability Engineering and System Safety</i> , 2017, 159, 214-222.	5.1	130
9	Review and analysis of fire and explosion accidents in maritime transportation. <i>Ocean Engineering</i> , 2018, 158, 350-366.	1.9	113
10	A novel extension of DEMATEL approach for probabilistic safety analysis in process systems. <i>Safety Science</i> , 2020, 121, 119-136.	2.6	108
11	Electrode dependent anaerobic ammonium oxidation in microbial fuel cell integrated hybrid constructed wetlands: A new process. <i>Science of the Total Environment</i> , 2020, 698, 134248.	3.9	105
12	The role of human error in risk analysis: Application to pre- and post-maintenance procedures of process facilities. <i>Reliability Engineering and System Safety</i> , 2013, 119, 251-258.	5.1	102
13	Performance assessment of aeration and radial oxygen loss assisted cathode based integrated constructed wetland-microbial fuel cell systems. <i>Bioresource Technology</i> , 2017, 244, 1178-1182.	4.8	99
14	Recent progress in sensing nitrate, nitrite, phosphate, and ammonium in aquatic environment. <i>Chemosphere</i> , 2020, 259, 127492.	4.2	98
15	Advanced intelligence frameworks for predicting maximum pitting corrosion depth in oil and gas pipelines. <i>Chemical Engineering Research and Design</i> , 2021, 147, 818-833.	2.7	91
16	The removal of heavy metals in wetland microcosms: Effects of bed depth, plant species, and metal mobility. <i>Chemical Engineering Journal</i> , 2012, 211-212, 501-507.	6.6	88
17	Vulnerability analysis of process plants subject to domino effects. <i>Reliability Engineering and System Safety</i> , 2016, 154, 127-136.	5.1	84
18	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

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19	Recent Advances in Sensing and Assessment of Corrosion in Sewage Pipelines. <i>Chemical Engineering Research and Design</i> , 2021, 147, 192-213.	2.7	81
20	Human Error Probability Assessment During Maintenance Activities of Marine Systems. <i>Safety and Health at Work</i> , 2018, 9, 42-52.	0.3	79
21	Risk-based maintenance planning of subsea pipelines through fatigue crack growth monitoring. <i>Engineering Failure Analysis</i> , 2017, 79, 928-939.	1.8	78
22	An integrated method for human error probability assessment during the maintenance of offshore facilities. <i>Chemical Engineering Research and Design</i> , 2015, 94, 172-179.	2.7	76
23	Dynamic risk analysis of offloading process in floating liquefied natural gas (FLNG) platform using Bayesian Network. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 41, 259-269.	1.7	76
24	Performance of pilot-scale horizontal subsurface flow constructed wetland coupled with a microbial fuel cell for treating wastewater. <i>Journal of Water Process Engineering</i> , 2020, 33, 100994.	2.6	75
25	Prediction of maximum pitting corrosion depth in oil and gas pipelines. <i>Engineering Failure Analysis</i> , 2020, 112, 104505.	1.8	74
26	Development of a human reliability assessment technique for the maintenance procedures of marine and offshore operations. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 50, 416-428.	1.7	69
27	Developing a dynamic model for pitting and corrosion-fatigue damage of subsea pipelines. <i>Ocean Engineering</i> , 2018, 150, 391-396.	1.9	66
28	Explosion modeling and analysis of BP Deepwater Horizon accident. <i>Safety Science</i> , 2013, 57, 150-160.	2.6	64
29	Development of a monograph for human error likelihood assessment in marine operations. <i>Safety Science</i> , 2017, 91, 33-39.	2.6	61
30	A review on the contribution of electron flow in electroactive wetlands: Electricity generation and enhanced wastewater treatment. <i>Chemosphere</i> , 2020, 254, 126926.	4.2	61
31	Risk-based pipeline integrity management: A road map for the resilient pipelines. <i>Journal of Pipeline Science and Engineering</i> , 2021, 1, 74-87.	2.4	61
32	Major accident modelling using spare data. <i>Chemical Engineering Research and Design</i> , 2017, 106, 52-59.	2.7	57
33	Fuzzy dynamic risk-based maintenance investment optimization for offshore process facilities. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 57, 194-207.	1.7	56
34	Risk-Based Maintenance Scheduling with application to naval vessels and ships. <i>Ocean Engineering</i> , 2018, 148, 476-485.	1.9	55
35	On-board measurements of particle and gaseous emissions from a large cargo vessel at different operating conditions. <i>Environmental Pollution</i> , 2018, 237, 832-841.	3.7	55
36	An ecological risk assessment model for Arctic oil spills from a subsea pipeline. <i>Marine Pollution Bulletin</i> , 2018, 135, 1117-1127.	2.3	55

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37	Reliability assessment of marine floating structures using Bayesian network. <i>Applied Ocean Research</i> , 2018, 76, 51-60.	1.8	54
38	A reliable risk analysis approach using an extension of best-worst method based on democratic-autocratic decision-making style. <i>Journal of Cleaner Production</i> , 2020, 256, 120418.	4.6	54
39	Modeling and optimization of dye removal using "green" clay supported iron nano-particles. <i>Ecological Engineering</i> , 2013, 61, 366-370.	1.6	53
40	Risk-based maintenance of offshore managed pressure drilling (MPD) operation. <i>Journal of Petroleum Science and Engineering</i> , 2017, 159, 513-521.	2.1	52
41	Developing a novel risk-based methodology for multi-criteria decision making in marine renewable energy applications. <i>Renewable Energy</i> , 2017, 102, 341-348.	4.3	52
42	Fire impact assessment in FLNG processing facilities using Computational Fluid Dynamics (CFD). <i>Fire Safety Journal</i> , 2017, 92, 42-52.	1.4	48
43	Human error assessment during maintenance operations of marine systems " What are the effective environmental factors?. <i>Safety Science</i> , 2018, 107, 85-98.	2.6	47
44	Importance of human reliability in process operation: A critical analysis. <i>Reliability Engineering and System Safety</i> , 2021, 211, 107607.	5.1	47
45	Denitrification in a low carbon environment of a constructed wetland incorporating a microbial electrolysis cell. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5602-5607.	3.3	45
46	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
47	Multi-level optimization of maintenance plan for natural gas system exposed to deterioration process. <i>Journal of Hazardous Materials</i> , 2019, 362, 412-423.	6.5	45
48	Pitting corrosion modelling of X80 steel utilized in offshore petroleum pipelines. <i>Chemical Engineering Research and Design</i> , 2020, 141, 135-139.	2.7	45
49	Microbiologically influenced corrosion (MIC) management using Bayesian inference. <i>Ocean Engineering</i> , 2021, 226, 108852.	1.9	45
50	Effects of Cold Environments on Human Reliability Assessment in Offshore Oil and Gas Facilities. <i>Human Factors</i> , 2014, 56, 825-839.	2.1	44
51	A hybrid SVR-PSO model to predict a CFD-based optimised bubbling fluidised bed pyrolysis reactor. <i>Energy</i> , 2020, 191, 116414.	4.5	44
52	A methodology for enhancing the reliability of expert system applications in probabilistic risk assessment. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 58, 51-59.	1.7	42
53	Facile green synthesis, characterization and visible light photocatalytic activity of MgFe ₂ O ₄ @CoCr ₂ O ₄ magnetic nanocomposite. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 423, 113621.	2.0	42
54	Dynamic reliability assessment of ship grounding using Bayesian Inference. <i>Ocean Engineering</i> , 2018, 159, 47-55.	1.9	40

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55	Risk-Based Domino Effect Analysis for Fire and Explosion Accidents Considering Uncertainty in Processing Facilities. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 3990-4006.	1.8	39
56	Dynamic probability assessment of urban natural gas pipeline accidents considering integrated external activities. <i>Journal of Loss Prevention in the Process Industries</i> , 2021, 69, 104388.	1.7	38
57	Dynamic risk-based maintenance for offshore processing facility. <i>Process Safety Progress</i> , 2016, 35, 399-406.	0.4	37
58	Operational subsea pipeline assessment affected by multiple defects of microbiologically influenced corrosion. <i>Chemical Engineering Research and Design</i> , 2022, 158, 159-171.	2.7	37
59	A review of risk-based decision-making models for microbiologically influenced corrosion (MIC) in offshore pipelines. <i>Reliability Engineering and System Safety</i> , 2022, 223, 108474.	5.1	37
60	Reliability analysis of corroded pipelines: Novel adaptive conjugate first order reliability method. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 62, 103986.	1.7	36
61	A dynamic human reliability model for marine and offshore operations in harsh environments. <i>Ocean Engineering</i> , 2019, 173, 90-97.	1.9	36
62	Up to 399 μ mV bioelectricity generated by a rice paddy-planted microbial fuel cell assisted with a blue-green algal cathode. <i>Environmental Chemistry Letters</i> , 2019, 17, 1045-1051.	8.3	36
63	Probabilistic fatigue failure assessment of free spanning subsea pipeline using dynamic Bayesian network. <i>Ocean Engineering</i> , 2021, 234, 109323.	1.9	36
64	Resilience assessment of a subsea pipeline using dynamic Bayesian network. <i>Journal of Pipeline Science and Engineering</i> , 2022, 2, 100053.	2.4	36
65	A hierarchical Bayesian approach to modelling fate and transport of oil released from subsea pipelines. <i>Chemical Engineering Research and Design</i> , 2018, 118, 307-315.	2.7	35
66	Enhanced chromium(VI) treatment in electroactive constructed wetlands: Influence of conductive material. <i>Journal of Hazardous Materials</i> , 2020, 387, 121722.	6.5	35
67	Influence of applied potential on treatment performance and clogging behaviour of hybrid constructed wetland-microbial electrochemical technologies. <i>Chemosphere</i> , 2021, 284, 131296.	4.2	34
68	Condition monitoring of subsea pipelines considering stress observation and structural deterioration. <i>Journal of Loss Prevention in the Process Industries</i> , 2018, 51, 178-185.	1.7	31
69	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
70	Reliability of multi-purpose offshore-facilities: Present status and future direction in Australia. <i>Chemical Engineering Research and Design</i> , 2021, 148, 437-461.	2.7	30
71	Combustion products toxicity risk assessment in an offshore installation. <i>Chemical Engineering Research and Design</i> , 2014, 92, 616-624.	2.7	29
72	A robust risk assessment methodology for safety analysis of marine structures under storm conditions. <i>Ocean Engineering</i> , 2018, 156, 167-178.	1.9	29

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73	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
74	A condition monitoring based signal filtering approach for dynamic time dependent safety assessment of natural gas distribution process. <i>Chemical Engineering Research and Design</i> , 2019, 123, 335-343.	2.7	29
75	A methodology for uncertainty analysis of landslides triggered by an earthquake. <i>Computers and Geotechnics</i> , 2020, 117, 103262.	2.3	28
76	Safety assessment of hydro-generating units using experiments and grey-entropy correlation analysis. <i>Energy</i> , 2018, 165, 222-234.	4.5	26
77	On reliability challenges of repairable systems using hierarchical bayesian inference and maximum likelihood estimation. <i>Chemical Engineering Research and Design</i> , 2020, 135, 157-165.	2.7	26
78	A multi-criteria decision-making framework for site selection of offshore wind farms in Australia. <i>Ocean and Coastal Management</i> , 2022, 224, 106196.	2.0	26
79	Uncertainty modeling in risk assessment of digitalized process systems. <i>Methods in Chemical Process Safety</i> , 2022, , 389-416.	0.5	26
80	A dynamic human-factor risk model to analyze safety in sociotechnical systems. <i>Chemical Engineering Research and Design</i> , 2022, 164, 479-498.	2.7	26
81	Laboratory study of nitrification, denitrification and anammox processes in membrane bioreactors considering periodic aeration. <i>Journal of Environmental Management</i> , 2014, 142, 53-59.	3.8	25
82	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
83	A network based approach to envisage potential accidents in offshore process facilities. <i>Process Safety Progress</i> , 2017, 36, 178-191.	0.4	23
84	An integrated methodology to manage risk factors of aging urban oil and gas pipelines. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 66, 104154.	1.7	23
85	A sustainable perspective of optimal site selection of giant air-purifiers in large metropolitan areas. <i>Environment, Development and Sustainability</i> , 2022, 24, 8747-8778.	2.7	23
86	Parametric analysis of pyrolysis process on the product yields in a bubbling fluidized bed reactor. <i>Fuel</i> , 2018, 234, 616-625.	3.4	22
87	Dynamic risk-based inspection methodology. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 62, 103974.	1.7	22
88	Modeling and analysis of flammable gas dispersion and deflagration from offshore platform blowout. <i>Ocean Engineering</i> , 2020, 201, 107146.	1.9	22
89	Interrelation between sulphur and conductive materials and its impact on ammonium and organic pollutants removal in electroactive wetlands. <i>Journal of Hazardous Materials</i> , 2021, 419, 126417.	6.5	22
90	Accelerated pitting corrosion test of 304 stainless steel using ASTM G48; Experimental investigation and concomitant challenges. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 47, 10-21.	1.7	21

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91	A comparison of particulate matter and gaseous emission factors from two large cargo vessels during manoeuvring conditions. <i>Energy Reports</i> , 2019, 5, 1390-1398.	2.5	21
92	The Game of Guwarra: A game theory-based decision-making framework for site selection of offshore wind farms in Australia. <i>Journal of Cleaner Production</i> , 2021, 326, 129358.	4.6	20
93	Constructed Wetland Coupled Microbial Fuel Cell Technology. , 2019, , 1021-1036.		19
94	Prognostic health management of repairable ship systems through different autonomy degree; From current condition to fully autonomous ship. <i>Reliability Engineering and System Safety</i> , 2022, 221, 108355.	5.1	19
95	A probabilistic framework for risk management and emergency decision-making of marine oil spill accidents. <i>Chemical Engineering Research and Design</i> , 2022, 162, 932-943.	2.7	19
96	Real-time monitoring and management of offshore process system integrity. <i>Current Opinion in Chemical Engineering</i> , 2016, 14, 61-71.	3.8	18
97	Pitting Degradation Modeling of Ocean Steel Structures Using Bayesian Network. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2017, 139, .	0.6	18
98	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
99	CFD analysis of fast pyrolysis process in a pilot-scale auger reactor. <i>Fuel</i> , 2020, 273, 117782.	3.4	16
100	Prediction of Minerals Producing Acid Mine Drainage Using a Computer-Assisted Thermodynamic Chemical Equilibrium Model. <i>Mine Water and the Environment</i> , 2009, 28, 74-78.	0.9	15
101	Determination of Human Error Probabilities for the Maintenance Operations of Marine Engines. <i>Journal of Ship Production and Design</i> , 2016, 32, 226-234.	0.2	15
102	Dynamic safety assessment of a nonlinear pumped-storage generating system in a transient process. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 67, 192-202.	1.7	15
103	Transient safety assessment and risk mitigation of a hydroelectric generation system. <i>Energy</i> , 2020, 196, 117135.	4.5	15
104	Accident risk-based life cycle assessment methodology for green and safe fuel selection. <i>Chemical Engineering Research and Design</i> , 2017, 109, 268-287.	2.7	14
105	Overview of Marine and Offshore Safety. <i>Methods in Chemical Process Safety</i> , 2018, 2, 1-97.	0.5	13
106	Fluidisation characteristics and inter-phase heat transfer on product yields in bubbling fluidised bed reactor. <i>Fuel</i> , 2020, 273, 117791.	3.4	13
107	Risk Analysis of Offshore Transportation Accident in Arctic Waters. , 2017, Vol 159, .		13
108	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

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109	Dynamic maintenance planning of a hydro-turbine in operational life cycle. Reliability Engineering and System Safety, 2020, 204, 107129.	5.1	12
110	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
111	Developing a novel methodology for ecological risk assessment of thiosalts. Stochastic Environmental Research and Risk Assessment, 2014, 28, 383-391.	1.9	11
112	Emission factor estimation for oil and gas facilities. Chemical Engineering Research and Design, 2011, 89, 295-299.	2.7	10
113	Risk-Based Prioritisation of Indoor Air Pollution Monitoring Using Computational Fluid Dynamics. Indoor and Built Environment, 2012, 21, 663-673.	1.5	10
114	A novel approach to distinguish the uniform and non-uniform distribution of blast loads in process industry. Chemical Engineering Research and Design, 2020, 134, 416-428.	2.7	10
115	Low-power energy harvester from constructed wetland-microbial fuel cells for initiating a self-sustainable treatment process. Sustainable Energy Technologies and Assessments, 2021, 46, 101282.	1.7	10
116	A Markovian approach to power generation capacity assessment of floating wave energy converters. Renewable Energy, 2020, 146, 2736-2743.	4.3	8
117	A novel approach to safety analysis of floating structures experiencing storm. Ocean Engineering, 2018, 150, 397-403.	1.9	7
118	Development of Multi-Hazard Risk Assessment Model for Agricultural Water Supply and Distribution Systems Using Bayesian Network. Water Resources Management, 2021, 35, 3139-3159.	1.9	6
119	Ceiling temperature assessment of a reduced scale tunnel in the event of two hydrogen jet fires. Safety in Extreme Environments, 2021, 3, 133-142.	1.8	6
120	Risk Analysis of Flare Flame-out Condition in a Gas Process Facility. Oil and Gas Science and Technology, 2011, 66, 521-530.	1.4	5
121	Comparison between simulation and conventional training: Expanding the concept of social fidelity. Process Safety Progress, 2022, 41, .	0.4	5
122	Modeling impacts of combustion products on humans in complex processing facilities. Process Safety Progress, 2020, 39, e12114.	0.4	4
123	Domino effect risk management: Decision making methods. Methods in Chemical Process Safety, 2021, , 421-460.	0.5	4
124	A methodology to clarify logical relationship among failure modes and determine system probabilities. Journal of Loss Prevention in the Process Industries, 2021, 71, 104469.	1.7	4
125	Microbial fuel cell-integrated wastewater treatment systems. , 2020, , 29-46.		4
126	ECOLOGICAL RISK-BASED PERFORMANCE EVALUATION OF A WASTE STABILIZATION POND. Environmental Engineering and Management Journal, 2010, 9, 757-764.	0.2	4

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127	Introduction to microbial fuel cells: challenges and opportunities. , 2020, , 3-27.		3
128	Computational fluid dynamics modelling of a hydrogen fire safety in a scaled tunnel environment. Safety in Extreme Environments, 2023, 5, 1-15.	1.8	3
129	Application of multi-criteria decision-making tools for a site analysis of offshore wind turbines. , 2022, , 109-127.		3
130	Improving droplet sizing methodology for spray dynamics investigation. International Journal of Spray and Combustion Dynamics, 2016, 8, 86-99.	0.4	2
131	Numerical Modelling of a Fast Pyrolysis Process in a Bubbling Fluidized Bed Reactor. IOP Conference Series: Earth and Environmental Science, 2017, 73, 012032.	0.2	2
132	A risk-based approach to layout implementation of WEC array by addressing accidental constraints. Journal of Ocean Engineering and Marine Energy, 2019, 5, 73-84.	0.9	2
133	Recent progress in biosensors for wastewater monitoring and surveillance. , 2022, , 245-267.		2
134	Canada's oil sands industry from a sustainability perspective. Journal of Environmental Engineering and Science, 2022, 17, 1-9.	0.3	1
135	Approaches to domino effects evolution and risk assessment. Methods in Chemical Process Safety, 2021, 5, 395-420.	0.5	1
136	Advanced methods for environmental risk assessment in offshore operations. Methods in Chemical Process Safety, 2020, 4, 321-354.	0.5	1
137	An Application of Machine Learning to Shipping Emission Inventory. , 2018, Vol 160, .		1
138	CFD analysis of head losses in pipelines with butt fusion weld joints. Safety in Extreme Environments, 2021, 3, 143-155.	1.8	0
139	Numerical Assessment of Passive Fire Protection in an Oil and Gas Storage Facility. Springer Transactions in Civil and Environmental Engineering, 2020, , 1-21.	0.3	0
140	In-situ burning of spilled hydrocarbons using multiple pool fire numerical models. Safety in Extreme Environments, 2022, 4, 59-67.	1.8	0