

Rouzbeh Ra Abbassi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

138
papers

3,782
citations

35
h-index

55
g-index

142
ext. papers

4,936
ext. citations

4.7
avg, IF

6.36
L-index

#	Paper	IF	Citations
138	Performance assessment of innovative constructed wetland-microbial fuel cell for electricity production and dye removal. <i>Ecological Engineering</i> , 2012 , 47, 126-131	3.9	257
137	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	3.5	199
136	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	3.9	151
135	Risk analysis of deepwater drilling operations using Bayesian network. <i>Journal of Loss Prevention in the Process Industries</i> , 2015 , 38, 11-23	3.5	131
134	Improved DEMATEL methodology for effective safety management decision-making. <i>Safety Science</i> , 2020 , 127, 104705	5.8	90
133	Marine transportation risk assessment using Bayesian Network: Application to Arctic waters. <i>Ocean Engineering</i> , 2018 , 159, 422-436	3.9	87
132	Corrosion induced failure analysis of subsea pipelines. <i>Reliability Engineering and System Safety</i> , 2017 , 159, 214-222	6.3	84
131	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	6.3	81
130	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	3.5	78
129	Performance assessment of aeration and radial oxygen loss assisted cathode based integrated constructed wetland-microbial fuel cell systems. <i>Bioresour. Technol.</i> , 2017 , 244, 1178-1182	11	72
128	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	14.7	70
127	Vulnerability analysis of process plants subject to domino effects. <i>Reliability Engineering and System Safety</i> , 2016 , 154, 127-136	6.3	66
126	A novel extension of DEMATEL approach for probabilistic safety analysis in process systems. <i>Safety Science</i> , 2020 , 121, 119-136	5.8	65
125	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	10.2	62
124	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	3.5	60
123	Risk-based maintenance planning of subsea pipelines through fatigue crack growth monitoring. <i>Engineering Failure Analysis</i> , 2017 , 79, 928-939	3.2	59
122	Review and analysis of fire and explosion accidents in maritime transportation. <i>Ocean Engineering</i> , 2018 , 158, 350-366	3.9	57

121	Human Error Probability Assessment During Maintenance Activities of Marine Systems. <i>Safety and Health at Work</i> , 2018 , 9, 42-52	4	56
120	Recent progress in sensing nitrate, nitrite, phosphate, and ammonium in aquatic environment. <i>Chemosphere</i> , 2020 , 259, 127492	8.4	53
119	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	5.5	51
118	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	5.5	49
117	Explosion modeling and analysis of BP Deepwater Horizon accident. <i>Safety Science</i> , 2013 , 57, 150-160	5.8	48
116	Modeling and optimization of dye removal using green clay supported iron nano-particles. <i>Ecological Engineering</i> , 2013 , 61, 366-370	3.9	48
115	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	3.5	47
114	Developing a novel risk-based methodology for multi-criteria decision making in marine renewable energy applications. <i>Renewable Energy</i> , 2017 , 102, 341-348	8.1	46
113	Reliability assessment of marine floating structures using Bayesian network. <i>Applied Ocean Research</i> , 2018 , 76, 51-60	3.4	44
112	Development of a monograph for human error likelihood assessment in marine operations. <i>Safety Science</i> , 2017 , 91, 33-39	5.8	44
111	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	6.7	44
110	Major accident modelling using spare data. <i>Chemical Engineering Research and Design</i> , 2017 , 106, 52-59	5.5	41
109	Risk-based maintenance of offshore managed pressure drilling (MPD) operation. <i>Journal of Petroleum Science and Engineering</i> , 2017 , 159, 513-521	4.4	40
108	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	9.3	40
107	Fire impact assessment in FLNG processing facilities using Computational Fluid Dynamics (CFD). <i>Fire Safety Journal</i> , 2017 , 92, 42-52	3.3	39
106	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	5.5	38
105	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	3.5	38
104	Effects of cold environments on human reliability assessment in offshore oil and gas facilities. <i>Human Factors</i> , 2014 , 56, 825-39	3.8	36

103	Developing a dynamic model for pitting and corrosion-fatigue damage of subsea pipelines. <i>Ocean Engineering</i> , 2018 , 150, 391-396	3.9	35
102	Risk-Based Maintenance Scheduling with application to naval vessels and ships. <i>Ocean Engineering</i> , 2018 , 148, 476-485	3.9	35
101	Prediction of maximum pitting corrosion depth in oil and gas pipelines. <i>Engineering Failure Analysis</i> , 2020 , 112, 104505	3.2	34
100	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	10.3	34
99	A review on the contribution of electron flow in electroactive wetlands: Electricity generation and enhanced wastewater treatment. <i>Chemosphere</i> , 2020 , 254, 126926	8.4	34
98	Multi-level optimization of maintenance plan for natural gas system exposed to deterioration process. <i>Journal of Hazardous Materials</i> , 2019 , 362, 412-423	12.8	34
97	An ecological risk assessment model for Arctic oil spills from a subsea pipeline. <i>Marine Pollution Bulletin</i> , 2018 , 135, 1117-1127	6.7	34
96	Human error assessment during maintenance operations of marine systems [What are the effective environmental factors?]. <i>Safety Science</i> , 2018 , 107, 85-98	5.8	33
95	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	6.8	32
94	Dynamic reliability assessment of ship grounding using Bayesian Inference. <i>Ocean Engineering</i> , 2018 , 159, 47-55	3.9	30
93	Dynamic risk-based maintenance for offshore processing facility. <i>Process Safety Progress</i> , 2016 , 35, 399-406		30
92	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	3.5	29
91	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	5.5	27
90	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	3.5	27
89	Recent Advances in Sensing and Assessment of Corrosion in Sewage Pipelines. <i>Chemical Engineering Research and Design</i> , 2021 , 147, 192-213	5.5	27
88	Up to 399 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	13.3	26
87	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	3.9	25
86	A dynamic human reliability model for marine and offshore operations in harsh environments. <i>Ocean Engineering</i> , 2019 , 173, 90-97	3.9	25

85	Laboratory study of nitrification, denitrification and anammox processes in membrane bioreactors considering periodic aeration. <i>Journal of Environmental Management</i> , 2014 , 142, 53-9	7.9	24
84	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	6.3	23
83	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	3.5	23
82	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	5.5	22
81	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	5.5	21
80	A robust risk assessment methodology for safety analysis of marine structures under storm conditions. <i>Ocean Engineering</i> , 2018 , 156, 167-178	3.9	21
79	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	3.5	19
78	Enhanced chromium(VI) treatment in electroactive constructed wetlands: Influence of conductive material. <i>Journal of Hazardous Materials</i> , 2020 , 387, 121722	12.8	19
77	A hybrid SVR-PSO model to predict a CFD-based optimised bubbling fluidised bed pyrolysis reactor. <i>Energy</i> , 2020 , 191, 116414	7.9	18
76	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	3.5	17
75	Pitting corrosion modelling of X80 steel utilized in offshore petroleum pipelines. <i>Chemical Engineering Research and Design</i> , 2020 , 141, 135-139	5.5	17
74	Parametric analysis of pyrolysis process on the product yields in a bubbling fluidized bed reactor. <i>Fuel</i> , 2018 , 234, 616-625	7.1	17
73	Combustion products toxicity risk assessment in an offshore installation. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 616-624	5.5	17
72	A network based approach to envisage potential accidents in offshore process facilities. <i>Process Safety Progress</i> , 2017 , 36, 178-191	1	17
71	Microbiologically influenced corrosion (MIC) management using Bayesian inference. <i>Ocean Engineering</i> , 2021 , 226, 108852	3.9	17
70	Safety assessment of hydro-generating units using experiments and grey-entropy correlation analysis. <i>Energy</i> , 2018 , 165, 222-234	7.9	17
69	Risk-based pipeline integrity management: A road map for the resilient pipelines. <i>Journal of Pipeline Science and Engineering</i> , 2021 , 1, 74-87		16
68	A methodology for uncertainty analysis of landslides triggered by an earthquake. <i>Computers and Geotechnics</i> , 2020 , 117, 103262	4.4	16

67	Determination of Human Error Probabilities for the Maintenance Operations of Marine Engines. <i>Journal of Ship Production and Design</i> , 2016 , 32, 226-234	0.3	15
66	Pitting Degradation Modeling of Ocean Steel Structures Using Bayesian Network. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2017 , 139,	1.5	14
65	Constructed Wetland-Microbial Fuel Cell: An Emerging Integrated Technology for Potential Industrial Wastewater Treatment and Bio-Electricity Generation 2018 , 493-510		14
64	A hybrid human reliability assessment technique for the maintenance operations of marine and offshore systems. <i>Process Safety Progress</i> , 2020 , 39, e12118	1	14
63	Constructed Wetland Coupled Microbial Fuel Cell Technology 2019 , 1021-1036		14
62	Modeling and analysis of flammable gas dispersion and deflagration from offshore platform blowout. <i>Ocean Engineering</i> , 2020 , 201, 107146	3.9	13
61	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	2.4	13
60	Importance of human reliability in process operation: A critical analysis. <i>Reliability Engineering and System Safety</i> , 2021 , 211, 107607	6.3	13
59	Dynamic risk-based inspection methodology. <i>Journal of Loss Prevention in the Process Industries</i> , 2019 , 62, 103974	3.5	12
58	Numerical analysis of performances of passive fire protections in processing facilities. <i>Journal of Loss Prevention in the Process Industries</i> , 2019 , 62, 103970	3.5	12
57	Human reliability assessment for complex physical operations in harsh operating conditions. <i>Chemical Engineering Research and Design</i> , 2020 , 140, 1-13	5.5	11
56	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	3.5	11
55	Developing a novel methodology for ecological risk assessment of thiosalts. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014 , 28, 383-391	3.5	11
54	Real-time monitoring and management of offshore process system integrity. <i>Current Opinion in Chemical Engineering</i> , 2016 , 14, 61-71	5.4	11
53	Fluidisation characteristics and inter-phase heat transfer on product yields in bubbling fluidised bed reactor. <i>Fuel</i> , 2020 , 273, 117791	7.1	11
52	A sustainable perspective of optimal site selection of giant air-purifiers in large metropolitan areas. <i>Environment, Development and Sustainability</i> , ¹	4.5	11
51	Influence of applied potential on treatment performance and clogging behaviour of hybrid constructed wetland-microbial electrochemical technologies. <i>Chemosphere</i> , 2021 , 284, 131296	8.4	11
50	Overview of Marine and Offshore Safety. <i>Methods in Chemical Process Safety</i> , 2018 , 2, 1-97	1.1	10

49	Operational Subsea pipeline Assessment Affected by Multiple Defects of Microbiologically Influenced Corrosion. <i>Chemical Engineering Research and Design</i> , 2021 ,	5.5	10
48	Transient safety assessment and risk mitigation of a hydroelectric generation system. <i>Energy</i> , 2020 , 196, 117135	7.9	9
47	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	3.7	9
46	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	4.6	9
45	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	3.5	9
44	Influence of chloride and pH on the pitting mechanism of Zn-Ni alloy coating in sodium chloride solutions. <i>Canadian Journal of Chemical Engineering</i> , 2021 , 99, 680-694	2.3	9
43	Reliability of multi-purpose offshore-facilities: Present status and future direction in Australia. <i>Chemical Engineering Research and Design</i> , 2021 , 148, 437-461	5.5	9
42	Probabilistic fatigue failure assessment of free spanning subsea pipeline using dynamic Bayesian network. <i>Ocean Engineering</i> , 2021 , 234, 109323	3.9	9
41	CFD analysis of fast pyrolysis process in a pilot-scale auger reactor. <i>Fuel</i> , 2020 , 273, 117782	7.1	8
40	Emission factor estimation for oil and gas facilities. <i>Chemical Engineering Research and Design</i> , 2011 , 89, 295-299	5.5	8
39	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	12.8	8
38	A novel approach to safety analysis of floating structures experiencing storm. <i>Ocean Engineering</i> , 2018 , 150, 397-403	3.9	7
37	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	3.5	7
36	Risk-Based Prioritisation of Indoor Air Pollution Monitoring Using Computational Fluid Dynamics. <i>Indoor and Built Environment</i> , 2012 , 21, 663-673	1.8	7
35	Risk Analysis of Offshore Transportation Accident in Arctic Waters 2017 , Vol 159,		7
34	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	4.7	7
33	Accident risk-based life cycle assessment methodology for green and safe fuel selection. <i>Chemical Engineering Research and Design</i> , 2017 , 109, 268-287	5.5	6
32	A novel approach to distinguish the uniform and non-uniform distribution of blast loads in process industry. <i>Chemical Engineering Research and Design</i> , 2020 , 134, 416-428	5.5	6

31	Dynamic maintenance planning of a hydro-turbine in operational life cycle. <i>Reliability Engineering and System Safety</i> , 2020 , 204, 107129	6.3	6
30	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	10.3	5
29	A Markovian approach to power generation capacity assessment of floating wave energy converters. <i>Renewable Energy</i> , 2020 , 146, 2736-2743	8.1	5
28	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 , 108355	6.3	3
27	ECOLOGICAL RISK-BASED PERFORMANCE EVALUATION OF A WASTE STABILIZATION POND. <i>Environmental Engineering and Management Journal</i> , 2010 , 9, 757-764	0.6	3
26	Modeling impacts of combustion products on humans in complex processing facilities. <i>Process Safety Progress</i> , 2020 , 39, e12114	1	3
25	Ceiling temperature assessment of a reduced scale tunnel in the event of two hydrogen jet fires. <i>Safety in Extreme Environments</i> , 2021 , 3, 133-142	0.8	3
24	Low-power energy harvester from constructed wetland-microbial fuel cells for initiating a self-sustainable treatment process. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 46, 101282	4.7	3
23	Resilience assessment of a subsea pipeline using dynamic Bayesian network. <i>Journal of Pipeline Science and Engineering</i> , 2022 , 100053		3
22	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	6.3	3
21	Improving droplet sizing methodology for spray dynamics investigation. <i>International Journal of Spray and Combustion Dynamics</i> , 2016 , 8, 86-99	1.3	2
20	Numerical Modelling of a Fast Pyrolysis Process in a Bubbling Fluidized Bed Reactor. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017 , 73, 012032	0.3	2
19	Risk Analysis of Flare Flame-out Condition in a Gas Process Facility. <i>Oil and Gas Science and Technology</i> , 2011 , 66, 521-530	1.9	2
18	Microbial fuel cell integrated wastewater treatment systems 2020 , 29-46		2
17	Domino effect risk management: Decision making methods. <i>Methods in Chemical Process Safety</i> , 2021 , 421-460	1.1	2
16	A multi-criteria decision-making framework for site selection of offshore wind farms in Australia. <i>Ocean and Coastal Management</i> , 2022 , 224, 106196	3.9	2
15	A risk-based approach to layout implementation of WEC array by addressing accidental constraints. <i>Journal of Ocean Engineering and Marine Energy</i> , 2019 , 5, 73-84	1.5	1
14	Introduction to microbial fuel cells: challenges and opportunities 2020 , 3-27		1

13	Development of Multi-Hazard Risk Assessment Model for Agricultural Water Supply and Distribution Systems Using Bayesian Network. <i>Water Resources Management</i> , 2021 , 35, 3139-3159	3.7	1
12	A methodology to clarify logical relationship among failure modes and determine system probabilities. <i>Journal of Loss Prevention in the Process Industries</i> , 2021 , 71, 104469	3.5	1
11	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	5.5	1
10	Computational fluid dynamics modelling of a hydrogen fire safety in a scaled tunnel environment. <i>Safety in Extreme Environments</i> , 1	0.8	0
9	Recent progress in biosensors for wastewater monitoring and surveillance 2022 , 245-267		0
8	Application of multi-criteria decision-making tools for a site analysis of offshore wind turbines 2022 , 109-127		0
7	Advanced methods for environmental risk assessment in offshore operations. <i>Methods in Chemical Process Safety</i> , 2020 , 4, 321-354	1.1	0
6	Approaches to domino effects evolution and risk assessment. <i>Methods in Chemical Process Safety</i> , 2021 , 5, 395-420	1.1	0
5	Application of Integrated Risk-Based Approach to Safety Design of High Speed LNG Powered Vessels. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2020 , 253-269	0.4	
4	Numerical Assessment of Passive Fire Protection in an Oil and Gas Storage Facility. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2020 , 1-21	0.4	
3	Alberta's Oil Sands Industry from a Sustainability Perspective. <i>Journal of Environmental Engineering and Science</i> , 1-8	0.8	
2	CFD analysis of head losses in pipelines with butt fusion weld joints. <i>Safety in Extreme Environments</i> , 2021 , 3, 143-155	0.8	
1	In-situ burning of spilled hydrocarbons using multiple pool fire numerical models. <i>Safety in Extreme Environments</i> , 2022 , 4, 59-67	0.8	