

# Katrina M Groth

## List of Publications by Year in descending order

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34  
papers

2,542  
citations

430874

18  
h-index

434195

31  
g-index

36  
all docs

36  
docs citations

36  
times ranked

2101  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen storage and delivery: Review of the state of the art technologies and risk and reliability analysis. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 12254-12269.	7.1	684
2	Thermal and flammability properties of polypropylene/carbon nanotube nanocomposites. <i>Polymer</i> , 2004, 45, 4227-4239.	3.8	581
3	Flammability properties of polymer nanocomposites with single-walled carbon nanotubes: effects of nanotube dispersion and concentration. <i>Polymer</i> , 2005, 46, 471-481.	3.8	376
4	A data-informed PIF hierarchy for model-based Human Reliability Analysis. <i>Reliability Engineering and System Safety</i> , 2012, 108, 154-174.	8.9	110
5	Bridging the gap between HRA research and HRA practice: A Bayesian network version of SPAR-H. <i>Reliability Engineering and System Safety</i> , 2013, 115, 33-42.	8.9	93
6	HyRAM: A methodology and toolkit for quantitative risk assessment of hydrogen systems. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 7485-7493.	7.1	66
7	Overview of the DOE hydrogen safety, codes and standards program, part 3: Advances in research and development to enhance the scientific basis for hydrogen regulations, codes and standards. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 7263-7274.	7.1	61
8	Hybrid causal methodology and software platform for probabilistic risk assessment and safety monitoring of socio-technical systems. <i>Reliability Engineering and System Safety</i> , 2010, 95, 1276-1285.	8.9	58
9	Capturing cognitive causal paths in human reliability analysis with Bayesian network models. <i>Reliability Engineering and System Safety</i> , 2017, 158, 117-129.	8.9	49
10	A Bayesian method for using simulator data to enhance human error probabilities assigned by existing HRA methods. <i>Reliability Engineering and System Safety</i> , 2014, 128, 32-40.	8.9	48
11	Data requirements for improving the Quantitative Risk Assessment of liquid hydrogen storage systems. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 4222-4235.	7.1	40
12	3D risk management for hydrogen installations. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 7721-7730.	7.1	37
13	A hybrid algorithm for developing third generation HRA methods using simulator data, causal models, and cognitive science. <i>Reliability Engineering and System Safety</i> , 2019, 191, 106507.	8.9	36
14	Integration of deep learning and Bayesian networks for condition and operation risk monitoring of complex engineering systems. <i>Reliability Engineering and System Safety</i> , 2022, 222, 108433.	8.9	33
15	Critical review and analysis of hydrogen safety data collection tools. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 17845-17858.	7.1	31
16	Application of quantitative risk assessment for performance-based permitting of hydrogen fueling stations. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 7529-7535.	7.1	30
17	Modernizing risk assessment: A systematic integration of PRA and PHM techniques. <i>Reliability Engineering and System Safety</i> , 2020, 204, 107194.	8.9	30
18	Deriving causal Bayesian networks from human reliability analysis data: A methodology and example model. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2012, 226, 361-379.	0.7	28

#	ARTICLE	IF	CITATIONS
19	Challenges in leveraging existing human performance data for quantifying the IDHEAS HRA method. Reliability Engineering and System Safety, 2015, 144, 159-169.	8.9	18
20	Dependency definitions for quantitative human reliability analysis. Reliability Engineering and System Safety, 2022, 220, 108274.	8.9	18
21	Intelligent Modeling for Nuclear Power Plant Accident Management. International Journal on Artificial Intelligence Tools, 2018, 27, 1850003.	1.0	16
22	Comparison of NFPA and ISO approaches for evaluating separation distances. International Journal of Hydrogen Energy, 2012, 37, 17488-17496.	7.1	15
23	A Dynamic Bayesian Network Structure for Joint Diagnostics and Prognostics of Complex Engineering Systems. Algorithms, 2020, 13, 64.	2.1	14
24	A hybrid population-based degradation model for pipeline pitting corrosion. Reliability Engineering and System Safety, 2021, 214, 107740.	8.9	14
25	Exploiting the Capabilities of Bayesian Networks for Engineering Risk Assessment: Causal Reasoning through Interventions. Risk Analysis, 2022, 42, 1306-1324.	2.7	10
26	Metrics for evaluating the performance of complex engineering system health monitoring models. Reliability Engineering and System Safety, 2022, 223, 108473.	8.9	10
27	Opportunities and data requirements for data-driven prognostics and health management in liquid hydrogen storage systems. International Journal of Hydrogen Energy, 2022, 47, 18748-18762.	7.1	9
28	Toward a hybrid causal framework for autonomous vehicle safety analysis. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2023, 237, 367-388.	0.7	8
29	A hybrid model of internal pitting corrosion degradation under changing operational conditions for pipeline integrity management. Structural Health Monitoring, 2020, 19, 1075-1091.	7.5	6
30	Building and using dynamic risk-informed diagnosis procedures for complex system accidents. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2020, 234, 193-207.	0.7	5
31	On the value of data fusion and model integration for generating real-time risk insights for nuclear power reactors. Progress in Nuclear Energy, 2020, 129, 103497.	2.9	4
32	A Review of Methods for Discretizing Continuous-Time Accident Sequences. , 2019, , .		2
33	Failure Analysis of LNG Rail Locomotives. , 2017, , .		1
34	Toward a framework for risk monitoring of complex engineering systems with online operational data: A deep learning-based solution. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 0, , 1748006X2210799.	0.7	1