M Sam Mannan

List of Publications by Year
in descending order

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308 papers	8,043 citations	50276 46 h-index	102487 66 g-index
317 all docs	317 docs citations	317 times ranked	5053 citing authors

#	Article	IF	Citations
1	Fuzzy risk matrix. Journal of Hazardous Materials, 2008, 159, 152-157.	12.4	229
2	Resilience engineering of industrial processes: Principles and contributing factors. Journal of Loss Prevention in the Process Industries, 2012, 25, 233-241.	3.3	181
3	Fuzzy logic for process safety analysis. Journal of Loss Prevention in the Process Industries, 2009, 22, 695-702.	3.3	171
4	A review of estimation methods for flash points and flammability limits. Process Safety Progress, 2004, 23, 47-55.	1.0	123
5	Fuzzy logic for piping risk assessment (pfLOPA). Journal of Loss Prevention in the Process Industries, 2009, 22, 921-927.	3.3	117
6	Bayesian network based dynamic operational risk assessment. Journal of Loss Prevention in the Process Industries, 2016, 41, 399-410.	3.3	117
7	Pickering emulsions stabilized by amphiphilic nano-sheets. Soft Matter, 2012, 8, 10245.	2.7	111
8	The effect of particle size polydispersity on the explosibility characteristics of aluminum dust. Powder Technology, 2014, 254, 331-337.	4.2	111
9	A multi-criteria approach to screening alternatives for converting sewage sludge to biodiesel. Journal of Loss Prevention in the Process Industries, 2010, 23, 412-420.	3.3	107
10	Industrial alarm systems: Challenges and opportunities. Journal of Loss Prevention in the Process Industries, 2017, 50, 23-36.	3.3	101
11	The influence of individual differences on organizational safety attitudes. Safety Science, 2009, 47, 337-345.	4.9	89
12	Process Safety Analysis for Ti₃C₂T_x MXene Synthesis and Processing. Industrial & Engineering Chemistry Research, 2019, 58, 1570-1579.	3.7	89
13	A review of safety indices for process design. Current Opinion in Chemical Engineering, 2016, 14, 42-48.	7.8	84
14	Highly Biocompatible, Underwater Superhydrophilic and Multifunctional Biopolymer Membrane for Efficient Oilâ€“Water Separation and Aqueous Pollutant Removal. ACS Sustainable Chemistry and Engineering, 2018, 6, 3879-3887.	6.7	82
15	Process Resilience Analysis Framework (PRAF): A systems approach for improved risk and safety management. Journal of Loss Prevention in the Process Industries, 2018, 53, 61-73.	3.3	80
16	Sustainability evaluation of biodiesel production using multicriteria decisionâ€making. Environmental Progress and Sustainable Energy, 2009, 28, 38-46.	2.3	77
17	Predicting the Impact Sensitivities of Polynitro Compounds Using Quantum Chemical Descriptors. Journal of Energetic Materials, 2006, 24, 17-33.	2.0	74
18	QSPR Flash Point Prediction of Solvents Using Topological Indices for Application in Computer Aided Molecular Design. Industrial & Engineering Chemistry Research, 2009, 48, 7378-7387.	3.7	74

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19	Application of computational fluid dynamics for LNG vapor dispersion modeling: A study of key parameters. Journal of Loss Prevention in the Process Industries, 2009, 22, 332-352.	3.3	73
20	Numerical simulations of LNG vapor dispersion in Brayton Fire Training Field tests with ANSYS CFX. Journal of Hazardous Materials, 2010, 183, 51-61.	12.4	73
21	Lessons to be learned from an analysis of ammonium nitrate disasters in the last 100 years. Journal of Hazardous Materials, 2014, 280, 472-477.	12.4	69
22	Uncertainty aspects in process safety analysis. Journal of Loss Prevention in the Process Industries, 2010, 23, 446-454.	3.3	63
23	Development of inherently safer distillation systems. Journal of Loss Prevention in the Process Industries, 2014, 29, 225-239.	3.3	63
24	Development of an inherent safety index based on fuzzy logic. AICHE Journal, 2003, 49, 959-968.	3.6	62
25	Relationship of safety culture and process safety. Journal of Hazardous Materials, 2006, 130, 133-140.	12.4	61
26	Thermal risk assessment and rankings for reaction hazards in process safety. Journal of Thermal Analysis and Calorimetry, 2009, 98, 225-233.	3.6	60
27	Stabilization of Pickering foams by high-aspect-ratio nano-sheets. Soft Matter, 2013, 9, 1327-1336.	2.7	59
28	Ammonium nitrate thermal decomposition with additives. Journal of Loss Prevention in the Process Industries, 2015, 35, 307-315.	3.3	59
29	Risk assessment of LNG importation terminals using the Bayesianâ€“LOPA methodology. Journal of Loss Prevention in the Process Industries, 2009, 22, 91-96.	3.3	57
30	Review of Existing QSAR/QSPR Models Developed for Properties Used in Hazardous Chemicals Classification System. Industrial & Engineering Chemistry Research, 2012, 51, 16101-16115.	3.7	55
31	The integration of Dow's fire and explosion index (F&EI) into process design and optimization to achieve inherently safer design. Journal of Loss Prevention in the Process Industries, 2007, 20, 79-90.	3.3	54
32	Safety and techno-economic analysis of ethylene technologies. Journal of Loss Prevention in the Process Industries, 2016, 39, 74-84.	3.3	54
33	Experimental study on propane jet fire hazards: Comparison of main geometrical features with empirical models. Journal of Loss Prevention in the Process Industries, 2016, 41, 365-375.	3.3	54
34	Fire reaction properties of polystyrene-based nanocomposites using nanosilica and nanoclay as additives in cone calorimeter test. Journal of Thermal Analysis and Calorimetry, 2018, 132, 1853-1865.	3.6	54
35	Case study and lessons learned from the ammonium nitrate explosion at the West Fertilizer facility. Journal of Hazardous Materials, 2016, 308, 164-172.	12.4	53
36	Thermal runaway reaction hazards and mechanisms of hydroxylamine with acid/base contaminants. Thermochimica Acta, 2004, 421, 1-9.	2.7	52

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37	Thermal Decomposition Pathways of Hydroxylamine: Theoretical Investigation on the Initial Steps. Journal of Physical Chemistry A, 2010, 114, 9262-9269.	2.5	52
38	Experimental study on propane jet fire hazards: Assessment of the main geometrical features of horizontal jet flames. Journal of Loss Prevention in the Process Industries, 2016, 41, 355-364.	3.3	52
39	Utilization of accident databases and fuzzy sets to estimate frequency of HazMat transport accidents. Journal of Hazardous Materials, 2009, 167, 374-382.	12.4	51
40	Thermosensitive ZrP-PNIPAM Pickering Emulsifier and the Controlled-Release Behavior. ACS Applied Materials & Interfaces, 2017, 9, 7852-7858.	8.0	51
41	Fire and explosion assessment on oil and gas floating production storage offloading (FPSO): An effective screening and comparison tool. Chemical Engineering Research and Design, 2009, 87, 147-160.	5.6	50
42	Aspect ratio and polydispersity dependence of isotropic-nematic transition in discotic suspensions. Physical Review E, 2012, 85, 061708.	2.1	50
43	The Evolution of Process Safety: Current Status and Future Direction. Annual Review of Chemical and Biomolecular Engineering, 2016, 7, 135-162.	6.8	50
44	An Approach for Solvent Selection in Extractive Distillation Systems Including Safety Considerations. Industrial & Engineering Chemistry Research, 2014, 53, 12023-12031.	3.7	49
45	Why major accidents are still occurring. Current Opinion in Chemical Engineering, 2016, 14, 1-8.	7.8	48
46	Cone calorimeter analysis of flame retardant poly (methyl methacrylate)-silica nanocomposites. Journal of Thermal Analysis and Calorimetry, 2017, 128, 1443-1451.	3.6	48
47	Optimal facility layout under toxic release in process facilities: A stochastic approach. Computers and Chemical Engineering, 2010, 34, 122-133.	3.8	47
48	Application of polymer nanocomposites in the flame retardancy study. Journal of Loss Prevention in the Process Industries, 2018, 55, 381-391.	3.3	47
49	Comparison of the thermal decomposition behavior for members of the hydroxylamine family. Thermochimica Acta, 2004, 414, 177-183.	2.7	46
50	Did we learn about risk control since Seveso? Yes, we surely did, but is it enough? An historical brief and problem analysis. Journal of Loss Prevention in the Process Industries, 2017, 49, 5-17.	3.3	46
51	Experimental measurement and numerical analysis of binary hydrocarbon mixture flammability limits. Chemical Engineering Research and Design, 2009, 87, 94-104.	5.6	45
52	New Approach To Optimizing the Facility Siting and Layout for Fire and Explosion Scenarios. Industrial & Engineering Chemistry Research, 2011, 50, 3928-3937.	3.7	45
53	Prediction of the Reactivity Hazards for Organic Peroxides Using the QSPR Approach. Industrial & Engineering Chemistry Research, 2011, 50, 1515-1522.	3.7	45
54	An approach for risk reduction (methodology) based on optimizing the facility layout and siting in toxic gas release scenarios. Journal of Loss Prevention in the Process Industries, 2010, 23, 139-148.	3.3	44

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55	Optimization of dilution ventilation layout design in confined environments using Computational Fluid Dynamics (CFD). Journal of Loss Prevention in the Process Industries, 2019, 60, 195-202.	3.3	44
56	Inherently safer design of solvent processes at the conceptual stage: Practical application for substitution. Journal of Loss Prevention in the Process Industries, 2010, 23, 483-491.	3.3	43
57	Dispersion modeling approach for quantification of methane emission rates from natural gas fugitive leaks detected by infrared imaging technique. Journal of Loss Prevention in the Process Industries, 2011, 24, 138-145.	3.3	42
58	Resilience metrics for improved process-risk decision making: Survey, analysis and application. Safety Science, 2018, 108, 13-28.	4.9	42
59	An approach for domino effect reduction based on optimal layouts. Journal of Loss Prevention in the Process Industries, 2013, 26, 887-894.	3.3	41
60	Experimental Study on Propane Jet Fire Hazards: Thermal Radiation. Industrial & Engineering Chemistry Research, 2015, 54, 9251-9256.	3.7	41
61	A Resilience-based Integrated Process Systems Hazard Analysis (RIPSHA) approach: Part I plant system layer. Chemical Engineering Research and Design, 2018, 116, 92-105.	5.6	40
62	Adiabatic calorimetric decomposition studies of 50 wt.% hydroxylamine/water. Journal of Hazardous Materials, 2001, 82, 13-24.	12.4	39
63	Study on the Reaction Mechanism and Kinetics of the Thermal Decomposition of Nitroethane. Industrial & Engineering Chemistry Research, 2009, 48, 8745-8751.	3.7	39
64	Thermal Runaway in Lithium-Ion Batteries: Incidents, Kinetics of the Runaway and Assessment of Factors Affecting Its Initiation. Journal of the Electrochemical Society, 2016, 163, A2691-A2701.	2.9	39
65	An approach to solve the facility layout problem based on the worst-case scenario. Journal of Loss Prevention in the Process Industries, 2010, 23, 385-392.	3.3	38
66	A resilience-based integrated process systems hazard analysis (RIPSHA) approach: Part II management system layer. Chemical Engineering Research and Design, 2018, 118, 115-124.	5.6	38
67	Application of fuzzy logic to explosion risk assessment. Journal of Loss Prevention in the Process Industries, 2011, 24, 780-790.	3.3	37
68	A framework for developing leading indicators for offshore drillwell blowout incidents. Chemical Engineering Research and Design, 2017, 106, 256-262.	5.6	37
69	How can we improve process hazard identification? What can accident investigation methods contribute and what other recent developments? A brief historical survey and a sketch of how to advance. Journal of Loss Prevention in the Process Industries, 2018, 55, 80-106.	3.3	37
70	The legacy of Bhopal: The impact over the last 20 years and future direction. Journal of Loss Prevention in the Process Industries, 2005, 18, 218-224.	3.3	36
71	Layer of protection analysis for reactive chemical risk assessment. Journal of Hazardous Materials, 2008, 159, 19-24.	12.4	36
72	Hierarchical, Self-Healing and Superhydrophobic Zirconium Phosphate Hybrid Membrane Based on the Interfacial Crystal Growth of Lyotropic Two-Dimensional Nanoplatelets. ACS Applied Materials & Interfaces, 2018, 10, 22793-22800.	8.0	36

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73	Use of water spray curtain to disperse LNG vapor clouds. Journal of Loss Prevention in the Process Industries, 2010, 23, 77-88.	3.3	35
74	A MINLP approach for layout designs based on the domino hazardÂindex. Journal of Loss Prevention in the Process Industries, 2014, 30, 219-227.	3.3	35
75	Nano-encapsulated PCM via Pickering Emulsification. Scientific Reports, 2015, 5, 13357.	3.3	35
76	Effect of CF3Br on C1â€“C3 ignition and laminar flame speed: Numerical and experimental evaluation. Combustion and Flame, 2013, 160, 1044-1059.	5.2	34
77	A correlation of the lower flammability limit for hybrid mixtures. Journal of Loss Prevention in the Process Industries, 2014, 32, 120-126.	3.3	34
78	Risk assessment: What is it worth? Shall we just do away with it, or can it do a better job?. Safety Science, 2017, 99, 140-155.	4.9	34
79	Fault detection and classification in chemical processes based on neural networks with feature extraction. ISA Transactions, 2003, 42, 651-664.	5.7	33
80	Incident analysis of Bucheon LPG filling station pool fire and BLEVE. Journal of Hazardous Materials, 2006, 137, 62-67.	12.4	33
81	The development and application of dynamic operational risk assessment in oil/gas and chemical process industry. Reliability Engineering and System Safety, 2010, 95, 806-815.	8.9	33
82	Investigating the effect of inherent safety principles on system reliability in process design. Chemical Engineering Research and Design, 2018, 117, 100-110.	5.6	33
83	A Methodology for Fault Detection, Isolation, and Identification for Nonlinear Processes with Parametric Uncertainties. Industrial & Engineering Chemistry Research, 2004, 43, 6774-6786.	3.7	32
84	Comparison of objective and subjective operator fatigue assessment methods in offshore shiftwork. Journal of Loss Prevention in the Process Industries, 2017, 48, 376-381.	3.3	31
85	Application of big data analytics in process safety and risk management. , 2017, , .		31
86	Investigating written procedures in process safety: Qualitative data analysis of interviews from high risk facilities. Chemical Engineering Research and Design, 2018, 113, 30-39.	5.6	31
87	Calculated flame temperature (CFT) modeling of fuel mixture lower flammability limits. Journal of Hazardous Materials, 2010, 174, 416-423.	12.4	30
88	Lower Flammability Limits of Hydrogen and Light Hydrocarbons at Subatmospheric Pressures. Industrial & Engineering Chemistry Research, 2013, 52, 1372-1378.	3.7	30
89	A fuzzy logic and probabilistic hybrid approach to quantify the uncertainty in layer of protection analysis. Journal of Loss Prevention in the Process Industries, 2016, 43, 10-17.	3.3	30
90	A method for facility layout optimisation including stochastic risk assessment. Chemical Engineering Research and Design, 2018, 117, 616-628.	5.6	30

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91	Challenges and needs for process safety in the new millennium. Chemical Engineering Research and Design, 2012, 90, 91-100.	5.6	29
92	Trends and challenges in process safety. AICHE Journal, 2015, 61, 3558-3569.	3.6	29
93	In search of causes behind offshore incidents: Fire in offshore oil and gas facilities. Journal of Loss Prevention in the Process Industries, 2018, 54, 254-265.	3.3	29
94	A Review of Characterization and Quantification Tools for Microbiologically Influenced Corrosion in the Oil and Gas Industry: Current and Future Trends. Industrial & Engineering Chemistry Research, 2018, 57, 13895-13922.	3.7	29
95	A new algorithm for computer-aided fault tree synthesis. Journal of Loss Prevention in the Process Industries, 2002, 15, 265-277.	3.3	28
96	Harnessing data mining to explore incident databases. Journal of Hazardous Materials, 2006, 130, 33-41.	12.4	28
97	Harnessing database resources for understanding the profile of chemical process industry incidents. Journal of Loss Prevention in the Process Industries, 2010, 23, 549-560.	3.3	28
98	Uncertainty techniques in liquefied natural gas (LNG) dispersion calculations. Journal of Loss Prevention in the Process Industries, 2013, 26, 418-426.	3.3	28
99	Experimental sensitivity analysis of the runaway severity of Dicumyl peroxide decomposition using adiabatic calorimetry. Thermochimica Acta, 2015, 617, 28-37.	2.7	28
100	Study of thermal and mechanical behaviors of flame retardant polystyrene-based nanocomposites prepared via in-situ polymerization method. Journal of Loss Prevention in the Process Industries, 2017, 49, 228-239.	3.3	28
101	An experimental study: laminar flame speed sensitivity from spherical flames in stoichiometric CH₄â€“air mixtures. Combustion Science and Technology, 2018, 190, 1594-1613.	2.3	28
102	Process resilience analysis based data-driven maintenance optimization: Application to cooling tower operations. Computers and Chemical Engineering, 2019, 121, 27-45.	3.8	28
103	Experimental study of effective water spray curtain application in dispersing liquefied natural gas vapor clouds. Process Safety Progress, 2008, 27, 345-353.	1.0	27
104	A new approach for facility siting using mapping risks on a plant grid area and optimization. Journal of Loss Prevention in the Process Industries, 2010, 23, 824-830.	3.3	27
105	Prediction models for the flash point of pure components. Journal of Loss Prevention in the Process Industries, 2011, 24, 753-757.	3.3	27
106	Upper Flammability Limits of Hydrogen and Light Hydrocarbons in Air at Subatmospheric Pressures. Industrial & Engineering Chemistry Research, 2012, 51, 9396-9402.	3.7	27
107	Probing into Styrene Polymerization Runaway Hazards: Effects of the Monomer Mass Fraction. ACS Omega, 2019, 4, 8136-8145.	3.5	27
108	Sensor fault diagnosis for nonlinear processes with parametric uncertaintiesâˆ†. Journal of Hazardous Materials, 2006, 130, 1-8.	12.4	26

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109	Integrated Approach of Safety, Sustainability, Reliability, and Resilience Analysis via a Return on Investment Metric. ACS Sustainable Chemistry and Engineering, 2019, 7, 19522-19536.	6.7	26
110	Developing leading indicators-based decision support algorithms and probabilistic models using Bayesian network to predict kicks while drilling. Chemical Engineering Research and Design, 2019, 121, 239-246.	5.6	26
111	Calculation of Fire and Explosion Index (F&EI) value for the Dow Guide taking credit for the loss control measures. Journal of Loss Prevention in the Process Industries, 2003, 16, 235-241.	3.3	25
112	Quantitative Structure Property Relationship Studies for Predicting Dust Explosibility Characteristics (K_{st}, P_{max}) of Organic Chemical Dusts. Industrial & Engineering Chemistry Research, 2011, 50, 2373-2379.	3.7	25
113	Blanketing effect of expansion foam on liquefied natural gas (LNG) spillage pool. Journal of Hazardous Materials, 2014, 280, 380-388.	12.4	25
114	A summary and synthesis of procedural regulations and standardsâ€"Informing a procedures writer's guide. Journal of Loss Prevention in the Process Industries, 2016, 44, 726-734.	3.3	25
115	Field experiments on high expansion (HEX) foam application for controlling LNG pool fire. Journal of Hazardous Materials, 2009, 165, 612-622.	12.4	24
116	Framework for creating a Best-in-Class safety culture. Journal of Loss Prevention in the Process Industries, 2013, 26, 1423-1432.	3.3	24
117	A CFD-based approach for gas detectors allocation. Journal of Loss Prevention in the Process Industries, 2016, 44, 633-641.	3.3	24
118	Lessons learned from analyzing a VCE accident at a chemical plant. Journal of Loss Prevention in the Process Industries, 2017, 50, 397-402.	3.3	24
119	Process hazard evaluation for catalytic oxidation of 2-octanol with hydrogen peroxide using calorimetry techniques. Chemical Engineering Journal, 2019, 378, 122018.	12.7	24
120	Supporting risk management decision making by converting linguistic graded qualitative risk matrices through interval type-2 fuzzy sets. Chemical Engineering Research and Design, 2020, 134, 308-322.	5.6	24
121	Effect of Iron Ion in the Thermal Decomposition of 50 mass % Hydroxylamine/Water Solutions. Journal of Chemical & Engineering Data, 2003, 48, 1164-1169.	1.9	23
122	Forced dispersion of LNG vapor with water curtain. Journal of Loss Prevention in the Process Industries, 2010, 23, 768-772.	3.3	23
123	Prediction of Thermochemical Properties for Gaseous Ammonia Oxide. Journal of Chemical & Engineering Data, 2010, 55, 5128-5132.	1.9	23
124	Runaway decomposition of dicumyl peroxide by open cell adiabatic testing at different initial conditions. Chemical Engineering Research and Design, 2016, 102, 251-262.	5.6	23
125	Experimental study of electrostatic hazard inside scrubber column using response surface methodology. Chemical Engineering Science, 2019, 200, 46-68.	3.8	23
126	Inherently safer sustained casing pressure testing for well integrity evaluation. Journal of Loss Prevention in the Process Industries, 2014, 29, 209-215.	3.3	22

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127	Experimental and numerical study of liquefied natural gas (LNG) pool spreading and vaporization on water. Journal of Hazardous Materials, 2017, 334, 244-255.	12.4	22
128	Benchmarking MOC practices in the process industries. Process Safety Progress, 2002, 21, 103-112.	1.0	21
129	Using screening test data to recognize reactive chemical hazards. Journal of Hazardous Materials, 2003, 104, 255-267.	12.4	21
130	Hydroxylamine nitrate self-catalytic kinetics study with adiabatic calorimetry. Journal of Hazardous Materials, 2009, 162, 1217-1222.	12.4	21
131	ExSys-LOPA for the chemical process industry. Journal of Loss Prevention in the Process Industries, 2010, 23, 688-696.	3.3	21
132	Validation of a new formula for predicting the lower flammability limit of hybrid mixtures. Journal of Loss Prevention in the Process Industries, 2015, 35, 52-58.	3.3	21
133	Thermal Runaway Risk of Semibatch Processes: Esterification Reaction with Autocatalytic Behavior. Industrial & Engineering Chemistry Research, 2017, 56, 1534-1542.	3.7	21
134	Assessment of the effects of release variables on the consequences of LNG spillage onto water using FERC models. Journal of Hazardous Materials, 2006, 130, 155-162.	12.4	20
135	An optimization approach to the integration of inherently safer design and process scheduling. Journal of Loss Prevention in the Process Industries, 2008, 21, 543-549.	3.3	20
136	Thermal decomposition hazard evaluation of hydroxylamine nitrate. Journal of Hazardous Materials, 2006, 130, 163-168.	12.4	19
137	Development of a miniature calorimeter for identification and detection of explosives and other energetic compounds. Journal of Hazardous Materials, 2007, 142, 662-668.	12.4	19
138	Risk measures constituting a risk metrics which enables improved decision making: Value-at-Risk. Journal of Loss Prevention in the Process Industries, 2010, 23, 211-219.	3.3	19
139	Thermal decomposition of hydroxylamine: Isoperibolic calorimetric measurements at different conditions. Journal of Hazardous Materials, 2013, 254-255, 382-389.	12.4	19
140	Influence of Particle Size and Crystalline Level on the Efficiency of Dust Explosion Inhibitors. Industrial & Engineering Chemistry Research, 2014, 53, 11527-11537.	3.7	19
141	A stochastic approach for risk analysis in vapor cloud explosion. Journal of Loss Prevention in the Process Industries, 2015, 35, 249-256.	3.3	19
142	A web-based collection and analysis of process safety incidents. Journal of Loss Prevention in the Process Industries, 2016, 44, 171-192.	3.3	19
143	Thermal runaway reaction for highly exothermic material in safe storage temperature. Journal of Loss Prevention in the Process Industries, 2016, 40, 259-265.	3.3	19
144	Case study: Assessment on large scale LPG BLEVEs in the 2011 Tohoku earthquakes. Journal of Loss Prevention in the Process Industries, 2015, 35, 257-266.	3.3	18

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145	Mechanism study of ammonium nitrate decomposition with chloride impurity using experimental and molecular simulation approach. Journal of Hazardous Materials, 2019, 378, 120585.	12.4	18
146	Prevention and suppression of metal packing fires. Journal of Hazardous Materials, 2003, 104, 247-253.	12.4	17
147	Key observations of cumene hydroperoxide concentration on runaway reaction parameters. Thermochimica Acta, 2010, 501, 65-71.	2.7	17
148	Learning lessons from incidents: A paradigm shift is overdue. Chemical Engineering Research and Design, 2014, 92, 760-765.	5.6	17
149	Application of Computational Fluid Dynamics in Simulating Film Boiling of Cryogens. Industrial & Engineering Chemistry Research, 2016, 55, 7548-7557.	3.7	17
150	A resilience index for process safety analysis. Journal of Loss Prevention in the Process Industries, 2017, 50, 184-189.	3.3	17
151	Construction of a 36â€¯L dust explosion apparatus and turbulence flow field comparison with a standard 20â€¯L dust explosion vessel. Journal of Loss Prevention in the Process Industries, 2018, 55, 113-123.	3.3	17
152	Integrated thermodynamic and kinetic model of homogeneous catalytic Nâ€oxidation processes. AICHE Journal, 2020, 66, e16875.	3.6	17
153	Mitigation of operational failures via an economic framework of reliability, availability, and maintainability (RAM) during conceptual design. Journal of Loss Prevention in the Process Industries, 2020, 67, 104261.	3.3	17
154	Hydroxylamine production: will a QRA help you decide?. Reliability Engineering and System Safety, 2003, 81, 215-224.	8.9	16
155	Process monitoring based on classification tree and discriminant analysis. Reliability Engineering and System Safety, 2006, 91, 546-555.	8.9	16
156	Toward an inherently safer design and operation of batch and semi-batch processes: The N-oxidation of alkylpyridines. Journal of Loss Prevention in the Process Industries, 2012, 25, 797-802.	3.3	16
157	A model to optimize facility layouts with toxic releases and mitigation systems. Computers and Chemical Engineering, 2013, 56, 218-227.	3.8	16
158	Thermal degradation and flammability of nanocomposites composed of silica cross-linked to poly(methyl methacrylate). Plastics, Rubber and Composites, 2016, 45, 375-381.	2.0	16
159	Modeling an incident management team as a joint cognitive system. Journal of Loss Prevention in the Process Industries, 2018, 56, 231-241.	3.3	16
160	A journey to excellence in process safety management. Journal of Loss Prevention in the Process Industries, 2018, 55, 71-79.	3.3	16
161	Process system resilience: from risk management to business continuity and sustainability. International Journal of Business Continuity and Risk Management, 2020, 10, 47.	0.3	16
162	Reaction hazard and mechanism study of H2O2 oxidation of 2-butanol to methyl ethyl ketone using DSC, Phi-TEC II and GC-MS. Journal of Loss Prevention in the Process Industries, 2020, 66, 104177.	3.3	16

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163	The use of aerosol formation, flammability, and explosion information for heat-transfer fluid selection. Journal of Hazardous Materials, 2003, 104, 215-226.	12.4	15
164	Patterns and trends in injuries due to chemicals based on OSHA occupational injury and illness statistics. Journal of Hazardous Materials, 2009, 163, 349-356.	12.4	15
165	Key Observations of Liquefied Natural Gas Vapor Dispersion Field Test with Expansion Foam Application. Industrial & Engineering Chemistry Research, 2011, 50, 1504-1514.	3.7	15
166	Key Findings of Liquefied Natural Gas Pool Fire Outdoor Tests with Expansion Foam Application. Industrial & Engineering Chemistry Research, 2011, 50, 2359-2372.	3.7	15
167	Prediction of minimum ignition energy of aerosols using flame kernel modeling combined with flame front propagation theory. Journal of Loss Prevention in the Process Industries, 2012, 25, 103-113.	3.3	15
168	Validation of the DESC Code in Simulating the Effect of Vent Ducts on Dust Explosions. Industrial & Engineering Chemistry Research, 2013, 52, 6057-6067.	3.7	15
169	Effect of shock strength on dust entrainment behind a moving shock wave. Journal of Loss Prevention in the Process Industries, 2015, 36, 203-213.	3.3	15
170	Priming with nano-aerosolized water and sequential dip-washing with hydrogen peroxide: An efficient sanitization method to inactivate Salmonella Typhimurium LT2 on spinach. Journal of Food Engineering, 2015, 161, 8-15.	5.2	15
171	A system dynamics model for risk perception of lay people in communication regarding risk of chemical incident. Journal of Loss Prevention in the Process Industries, 2017, 50, 101-111.	3.3	15
172	Experimental Study of a Liquefied Natural Gas Pool Fire on Land in the Field. Industrial & Engineering Chemistry Research, 2018, 57, 14297-14306.	3.7	15
173	Emerging molecular techniques for studying microbial community composition and function in microbiologically influenced corrosion. International Biodeterioration and Biodegradation, 2019, 144, 104722.	3.9	15
174	Development of a FRAM-based framework to identify hazards in a complex system. Journal of Loss Prevention in the Process Industries, 2020, 63, 103994.	3.3	15
175	Development of Flammable Dispersion Quantitative Propertyâ€“Consequence Relationship Models Using Extreme Gradient Boosting. Industrial & Engineering Chemistry Research, 2020, 59, 15109-15118.	3.7	15
176	Molecular simulation studies on chemical reactivity of methylcyclopentadiene. Journal of Hazardous Materials, 2009, 165, 141-147.	12.4	14
177	Isothermal decomposition of hydroxylamine and hydroxylamine nitrate in aqueous solutions in the temperature range 80â€“160Â°C. Journal of Hazardous Materials, 2009, 165, 573-578.	12.4	14
178	Miniaturized calorimeter for thermal screening of energetic materials. Microelectronics Journal, 2010, 41, 874-881.	2.0	14
179	Integration of process safety engineering and fire protection engineering for better safety performance. Journal of Loss Prevention in the Process Industries, 2015, 37, 74-81.	3.3	14
180	Improved research-scale foam generator design and performance characterization. Journal of Loss Prevention in the Process Industries, 2016, 39, 173-180.	3.3	14

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