Yiliu Liu

List of Publications by Year
in descending order

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66 papers	4,362 citations	172207 29 h-index	106150 65 g-index
72 all docs	72 docs citations	72 times ranked	4797 citing authors

#	Article	IF	Citations
1	A condition-based maintenance policy for multi-component systems subject to stochastic and economic dependencies. Reliability Engineering and System Safety, 2022, 219, 108174.	5.1	27
2	Risk management of smart healthcare systems: Delimitation, state-of-arts, process, and perspectives. Journal of Patient Safety and Risk Management, 2022, 27, 129-148.	0.4	3
3	Performance modeling for condition-based activation of the redundant safety system subject to harmful tests. Reliability Engineering and System Safety, 2022, 226, 108649.	5.1	1
4	RAGCN: Region Aggregation Graph Convolutional Network for Bone Age Assessment From X-Ray Images. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	10
5	Study of testing and maintenance strategies for redundant final elements in SIS with imperfect detection of degraded state. Reliability Engineering and System Safety, 2021, 209, 107393.	5.1	15
6	Restoration of smart grids: Current status, challenges, and opportunities. Renewable and Sustainable Energy Reviews, 2021, 143, 110909.	8.2	53
7	Evaluation of IoT-Enabled Monitoring and Electronic Nose Spoilage Detection for Salmon Freshness During Cold Storage. Foods, 2020, 9, 1579.	1.9	16
8	Reliability and barrier assessment of seriesâ€“parallel systems subject to cascading failures. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2020, 234, 455-469.	0.6	7
9	Reliability and condition-based maintenance modeling for systems operating under performance-based contracting. Computers and Industrial Engineering, 2020, 142, 106344.	3.4	30
10	Multi-phase reliability growth test planning for repairable products sold with a two-dimensional warranty. Reliability Engineering and System Safety, 2019, 189, 315-326.	5.1	14
11	Operational data-driven prediction for failure rates of equipment in safety instrumented systems: A case study from the oil and gas industry. Journal of Loss Prevention in the Process Industries, 2019, 60, 96-105.	1.7	18
12	Throughput-based importance measures of multistate production systems. International Journal of Production Research, 2019, 57, 397-410.	4.9	9
13	Catalytically Active Single-Chain Polymeric Nanoparticles: Exploring Their Functions in Complex Biological Media. Journal of the American Chemical Society, 2018, 140, 3423-3433.	6.6	141
14	Availability-based engineering resilience metric and its corresponding evaluation methodology. Reliability Engineering and System Safety, 2018, 172, 216-224.	5.1	188
15	Reliability assessment for final elements of SISs with time dependent failures. Journal of Loss Prevention in the Process Industries, 2018, 51, 186-199.	1.7	27
16	Performance analysis for subsea blind shear ram preventers subject to testing strategies. Reliability Engineering and System Safety, 2018, 169, 281-298.	5.1	33
17	A systems engineeringâ€“based approach for framing reliability, availability, and maintainability: A case study for subsea design. Systems Engineering, 2018, 21, 576-592.	1.6	10
18	Catalytic single-chain polymeric nanoparticles at work: from ensemble towards single-particle kinetics. Molecular Systems Design and Engineering, 2018, 3, 609-618.	1.7	36

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19	Reliability evaluation of the Chinese Train Control System Level 3 using a fuzzy approach. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 2244-2259.	1.3	5
20	Bayesian network-based risk analysis methodology: A case of atmospheric and vacuum distillation unit. Chemical Engineering Research and Design, 2018, 117, 660-674.	2.7	15
21	Improving the Folding of Supramolecular Copolymers by Controlling the Assembly Pathway Complexity. Macromolecules, 2017, 50, 8562-8569.	2.2	38
22	On reliability improvement program for second-hand products sold with a two-dimensional warranty. Reliability Engineering and System Safety, 2017, 167, 452-463.	5.1	26
23	The inspection strategy of the subsea gas boosting system considering imperfect test effect. , 2017, , .		0
24	A novel critical infrastructure resilience assessment approach using dynamic Bayesian networks. AIP Conference Proceedings, 2017, , .	0.3	6
25	Safety assessment for inland waterway transportation with an extended fuzzy TOPSIS. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2016, 230, 323-333.	0.6	7
26	Spurious activation analysis of safety-instrumented systems. Reliability Engineering and System Safety, 2016, 156, 15-23.	5.1	9
27	Reliability assessment of ZPW-2000A track circuit using Bayesian network. , 2016, , .		3
28	Risk analysis of atmospheric and vacuum distillation unit using Bayesian networks. , 2016, , .		1
29	A DBN-based risk assessment model for prediction and diagnosis of offshore drilling incidents. Journal of Natural Gas Science and Engineering, 2016, 34, 139-158.	2.1	60
30	PFDavg generalized formulas for SIS subject to partial and full periodic tests based on multi-phase Markov models. Reliability Engineering and System Safety, 2016, 150, 160-170.	5.1	26
31	Proof-testing strategies induced by dangerous detected failures of safety-instrumented systems. Reliability Engineering and System Safety, 2016, 145, 366-372.	5.1	21
32	Flexible truncation method for the reliability assessment of phased mission systems with repairable components. Eksploatacja I Niezawodnosc, 2016, 18, 229-236.	1.1	7
33	Two-terminal reliability analysis for multi-phase communication networks. Eksploatacja I Niezawodnosc, 2016, 18, 418-427.	1.1	6
34	Reliability analysis of large phased-mission systems with repairable components based on success-state sampling. Reliability Engineering and System Safety, 2015, 142, 123-133.	5.1	44
35	Optimal preventive maintenance strategy for repairable items under two-dimensional warranty. Reliability Engineering and System Safety, 2015, 142, 326-333.	5.1	73
36	Modular Synthetic Platform for the Construction of Functional Single-Chain Polymeric Nanoparticles: From Aqueous Catalysis to Photosensitization. Journal of the American Chemical Society, 2015, 137, 13096-13105.	6.6	116

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37	Reliability Importance of the Channels in Safety Instrumented Systems. Lecture Notes in Electrical Engineering, 2015, , 1041-1054.	0.3	2
38	A Framing Link Based Tabu Search Algorithm for Large-Scale Multidepot Vehicle Routing Problems. Mathematical Problems in Engineering, 2014, 2014, 1-13.	0.6	5
39	Supramolecular Polymerization Promoted and Controlled through Selfâ€Sorting. Angewandte Chemie - International Edition, 2014, 53, 5351-5355.	7.2	200
40	Discrimination of low- and high-demand modes of safety-instrumented systems based on probability of failure on demand adaptability. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2014, 228, 409-418.	0.6	1
41	Porphyrin-containing hyperbranched supramolecular polymers: enhancing ¹O₂-generation efficiency by supramolecular polymerization. Polymer Chemistry, 2014, 5, 53-56.	1.9	70
42	Optimal staggered testing strategies for heterogeneously redundant safety systems. Reliability Engineering and System Safety, 2014, 126, 65-71.	5.1	9
43	Water-soluble supramolecular hyperbranched polymers based on host-enhanced Ï€â€“Ï€ interaction. Polymer Chemistry, 2013, 4, 900.	1.9	108
44	Cucurbit[7]uril as a â€œprotective agentâ€• controlling photochemistry and detecting 1-adamantanamine. Chemical Communications, 2013, 49, 3905.	2.2	14
45	Rational Adjustment of Multicolor Emissions by Cucurbiturils-Based Hostâ€“Guest Chemistry and Photochemistry. Langmuir, 2013, 29, 12909-12914.	1.6	48
46	Reliability effects of test strategies on safety-instrumented systems in different demand modes. Reliability Engineering and System Safety, 2013, 119, 235-243.	5.1	26
47	Water-soluble supramolecular polymers fabricated through specific interactions between cucurbit[8]uril and a tripeptide of Phe-Gly-Gly. Polymer Chemistry, 2013, 4, 5378.	1.9	52
48	Cucurbit[8]urilâ€Based Supramolecular Polymers. Chemistry - an Asian Journal, 2013, 8, 1626-1632.	1.7	185
49	Cucurbit[8]uril-based supramolecular polymers: promoting supramolecular polymerization by metal-coordination. Chemical Communications, 2013, 49, 5766.	2.2	116
50	Customized warranty offering for configurable products. Reliability Engineering and System Safety, 2013, 118, 1-7.	5.1	25
51	Maintenance-based warranty for offshore wind turbines. , 2013, , .		0
52	An empirical study on warranty improvements involving design teams. , 2013, , .		0
53	Supramolecular Photosensitizers with Enhanced Antibacterial Efficiency. Angewandte Chemie - International Edition, 2013, 52, 8285-8289.	7.2	294
54	Multilayer Films with Nanocontainers: Redoxâ€Controlled Reversible Encapsulation of Guest Molecules. Chemistry - A European Journal, 2012, 18, 14968-14973.	1.7	27

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55	Supramolecular Polymerization at Low Monomer Concentrations: Enhancing Intermolecular Interactions and Suppressing Cyclization by Rational Molecular Design. Chemistry - A European Journal, 2012, 18, 15650-15654.	1.7	72
56	Characterization of supramolecular polymers. Chemical Society Reviews, 2012, 41, 5922.	18.7	298
57	Bolaform Supramolecular Amphiphiles as a Novel Concept for the Buildup of Surface-Imprinted Films. Langmuir, 2011, 27, 10370-10375.	1.6	28
58	Customized configuration for hierarchical products: component clustering and optimization with PSO. International Journal of Advanced Manufacturing Technology, 2011, 57, 1223-1233.	1.5	6
59	Hostâ€Enhanced Ï€â€“Ï€ Interaction for Waterâ€Soluble Supramolecular Polymerization. Chemistry - A European Journal, 2011, 17, 9930-9935.	1.7	111
60	Reliability assessment of safety instrumented systems subject to different demand modes. Journal of Loss Prevention in the Process Industries, 2011, 24, 49-56.	1.7	71
61	An integration method for reliability analyses and product configuration. International Journal of Advanced Manufacturing Technology, 2010, 50, 831-841.	1.5	13
62	Waterâ€Soluble Supramolecular Polymerization Driven by Multiple Hostâ€Stabilized Chargeâ€Transfer Interactions. Angewandte Chemie - International Edition, 2010, 49, 6576-6579.	7.2	380
63	Multi-objective product configuration involving new components under uncertainty. Journal of Engineering Design, 2010, 21, 473-494.	1.1	29
64	Biostructure-like Surfaces with Thermally Responsive Wettability Prepared by Temperature-Induced Phase Separation Micromolding. Langmuir, 2010, 26, 9673-9676.	1.6	55
65	Environment-Friendly Method To Produce Graphene That Employs Vitamin C and Amino Acid. Chemistry of Materials, 2010, 22, 2213-2218.	3.2	712
66	Mimicking Biological Structured Surfaces by Phase-Separation Micromolding. Langmuir, 2009, 25, 4365-4369.	1.6	70