

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	Environment-Friendly Method To Produce Graphene That Employs Vitamin C and Amino Acid. Chemistry of Materials, 2010, 22, 2213-2218.	3.2	712
2	Water-soluble Supramolecular Polymerization Driven by Multiple Host-stabilized Charge-transfer Interactions. Angewandte Chemie - International Edition, 2010, 49, 6576-6579.	7.2	380
3	Characterization of supramolecular polymers. Chemical Society Reviews, 2012, 41, 5922.	18.7	298
4	Supramolecular Photosensitizers with Enhanced Antibacterial Efficiency. Angewandte Chemie - International Edition, 2013, 52, 8285-8289.	7.2	294
5	Supramolecular Polymerization Promoted and Controlled through Self-sorting. Angewandte Chemie - International Edition, 2014, 53, 5351-5355.	7.2	200
6	Availability-based engineering resilience metric and its corresponding evaluation methodology. Reliability Engineering and System Safety, 2018, 172, 216-224.	5.1	188
7	Cucurbit[8]uril-based Supramolecular Polymers. Chemistry - an Asian Journal, 2013, 8, 1626-1632.	1.7	185
8	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
9	Cucurbit[8]uril-based supramolecular polymers: promoting supramolecular polymerization by metal-coordination. Chemical Communications, 2013, 49, 5766.	2.2	116
10	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
11	Host-enhanced π - π Interaction for Water-soluble Supramolecular Polymerization. Chemistry - A European Journal, 2011, 17, 9930-9935.	1.7	111
12	Water-soluble supramolecular hyperbranched polymers based on host-enhanced π - π interaction. Polymer Chemistry, 2013, 4, 900.	1.9	108
13	Optimal preventive maintenance strategy for repairable items under two-dimensional warranty. Reliability Engineering and System Safety, 2015, 142, 326-333.	5.1	73
14	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
15	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
16	Mimicking Biological Structured Surfaces by Phase-Separation Micromolding. Langmuir, 2009, 25, 4365-4369.	1.6	70
17	Porphyrin-containing hyperbranched supramolecular polymers: enhancing 1^{st} - 2^{nd} -generation efficiency by supramolecular polymerization. Polymer Chemistry, 2014, 5, 53-56.	1.9	70
18	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

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19	Biostructure-like Surfaces with Thermally Responsive Wettability Prepared by Temperature-Induced Phase Separation Micromolding. <i>Langmuir</i> , 2010, 26, 9673-9676.	1.6	55
20	Restoration of smart grids: Current status, challenges, and opportunities. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 143, 110909.	8.2	53
21	Water-soluble supramolecular polymers fabricated through specific interactions between cucurbit[8]uril and a tripeptide of Phe-Gly-Gly. <i>Polymer Chemistry</i> , 2013, 4, 5378.	1.9	52
22	Rational Adjustment of Multicolor Emissions by Cucurbiturils-Based Host-Guest Chemistry and Photochemistry. <i>Langmuir</i> , 2013, 29, 12909-12914.	1.6	48
23	Reliability analysis of large phased-mission systems with repairable components based on success-state sampling. <i>Reliability Engineering and System Safety</i> , 2015, 142, 123-133.	5.1	44
24	Improving the Folding of Supramolecular Copolymers by Controlling the Assembly Pathway Complexity. <i>Macromolecules</i> , 2017, 50, 8562-8569.	2.2	38
25	Catalytic single-chain polymeric nanoparticles at work: from ensemble towards single-particle kinetics. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 609-618.	1.7	36
26	Performance analysis for subsea blind shear ram preventers subject to testing strategies. <i>Reliability Engineering and System Safety</i> , 2018, 169, 281-298.	5.1	33
27	Reliability and condition-based maintenance modeling for systems operating under performance-based contracting. <i>Computers and Industrial Engineering</i> , 2020, 142, 106344.	3.4	30
28	Multi-objective product configuration involving new components under uncertainty. <i>Journal of Engineering Design</i> , 2010, 21, 473-494.	1.1	29
29	Bolaform Supramolecular Amphiphiles as a Novel Concept for the Buildup of Surface-Imprinted Films. <i>Langmuir</i> , 2011, 27, 10370-10375.	1.6	28
30	Multilayer Films with Nanocontainers: Redox-Controlled Reversible Encapsulation of Guest Molecules. <i>Chemistry - A European Journal</i> , 2012, 18, 14968-14973.	1.7	27
31	Reliability assessment for final elements of SISs with time dependent failures. <i>Journal of Loss Prevention in the Process Industries</i> , 2018, 51, 186-199.	1.7	27
32	A condition-based maintenance policy for multi-component systems subject to stochastic and economic dependencies. <i>Reliability Engineering and System Safety</i> , 2022, 219, 108174.	5.1	27
33	Reliability effects of test strategies on safety-instrumented systems in different demand modes. <i>Reliability Engineering and System Safety</i> , 2013, 119, 235-243.	5.1	26
34	PFDavg generalized formulas for SIS subject to partial and full periodic tests based on multi-phase Markov models. <i>Reliability Engineering and System Safety</i> , 2016, 150, 160-170.	5.1	26
35	On reliability improvement program for second-hand products sold with a two-dimensional warranty. <i>Reliability Engineering and System Safety</i> , 2017, 167, 452-463.	5.1	26
36	Customized warranty offering for configurable products. <i>Reliability Engineering and System Safety</i> , 2013, 118, 1-7.	5.1	25

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37	Proof-testing strategies induced by dangerous detected failures of safety-instrumented systems. Reliability Engineering and System Safety, 2016, 145, 366-372.	5.1	21
38	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
39	Evaluation of IoT-Enabled Monitoring and Electronic Nose Spoilage Detection for Salmon Freshness During Cold Storage. Foods, 2020, 9, 1579.	1.9	16
40	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
41	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
42	Cucurbit[7]uril as a "protective agent" controlling photochemistry and detecting 1-adamantanamine. Chemical Communications, 2013, 49, 3905.	2.2	14
43	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
44	An integration method for reliability analyses and product configuration. International Journal of Advanced Manufacturing Technology, 2010, 50, 831-841.	1.5	13
45	A systems engineering-based approach for framing reliability, availability, and maintainability: A case study for subsea design. Systems Engineering, 2018, 21, 576-592.	1.6	10
46	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
47	Optimal staggered testing strategies for heterogeneously redundant safety systems. Reliability Engineering and System Safety, 2014, 126, 65-71.	5.1	9
48	Spurious activation analysis of safety-instrumented systems. Reliability Engineering and System Safety, 2016, 156, 15-23.	5.1	9
49	Throughput-based importance measures of multistate production systems. International Journal of Production Research, 2019, 57, 397-410.	4.9	9
50	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
51	Reliability and barrier assessment of series-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
52	Flexible truncation method for the reliability assessment of phased mission systems with repairable components. Eksploatacja I Niezawodnosc, 2016, 18, 229-236.	1.1	7
53	Customized configuration for hierarchical products: component clustering and optimization with PSO. International Journal of Advanced Manufacturing Technology, 2011, 57, 1223-1233.	1.5	6
54	A novel critical infrastructure resilience assessment approach using dynamic Bayesian networks. AIP Conference Proceedings, 2017, , .	0.3	6

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55	Two-terminal reliability analysis for multi-phase communication networks. <i>Eksploatacja i Niezawodnosc</i> , 2016, 18, 418-427.	1.1	6
56	A Framing Link Based Tabu Search Algorithm for Large-Scale Multidepot Vehicle Routing Problems. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-13.	0.6	5
57	Reliability evaluation of the Chinese Train Control System Level 3 using a fuzzy approach. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2018, 232, 2244-2259.	1.3	5
58	Reliability assessment of ZPW-2000A track circuit using Bayesian network. , 2016, , .		3
59	Risk management of smart healthcare systems: Delimitation, state-of-arts, process, and perspectives. <i>Journal of Patient Safety and Risk Management</i> , 2022, 27, 129-148.	0.4	3
60	Reliability Importance of the Channels in Safety Instrumented Systems. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 1041-1054.	0.3	2
61	Discrimination of low- and high-demand modes of safety-instrumented systems based on probability of failure on demand adaptability. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2014, 228, 409-418.	0.6	1
62	Risk analysis of atmospheric and vacuum distillation unit using Bayesian networks. , 2016, , .		1
63	Performance modeling for condition-based activation of the redundant safety system subject to harmful tests. <i>Reliability Engineering and System Safety</i> , 2022, 226, 108649.	5.1	1
64	Maintenance-based warranty for offshore wind turbines. , 2013, , .		0
65	An empirical study on warranty improvements involving design teams. , 2013, , .		0
66	The inspection strategy of the subsea gas boosting system considering imperfect test effect. , 2017, , .		0