Yi Ren

List of Publications by Year in Descending Order

73 papers	757 citations	15 h-index	23 g-index
103 ext. papers	1,051 ext. citations	4.5 avg, IF	4.72 L-index

#	Paper	IF	Citations
73	Degradation Analysis for Reliability of Optoelectronics **2022**, 317-350		
72	A modified connectivity link addition strategy to improve the resilience of multiplex networks against attacks. *Reliability Engineering and System Safety*, **2022**, 221, 108294	6.3	1
71	An agent-based dynamic reliability modeling method for multistate systems considering fault propagation: A case study on subsea Christmas trees. *Chemical Engineering Research and Design*, **2022**, 158, 20-33	5.5	2
70	An Electric Fence-Based Intelligent Scheduling Method for Rebalancing Dockless Bike Sharing Systems. *Applied Sciences (Switzerland)*, **2022**, 12, 5031	2.6	1
69	Artificial Intelligence Enhanced Two-stage Hybrid Fault Prognosis Methodology of PMSM. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1	11.9	8
68	Application of MICMAC, Fuzzy AHP, and Fuzzy TOPSIS for Evaluation of the Maintenance Factors Affecting Sustainable Manufacturing. *Energies*, **2021**, 14, 1436	3.1	22
67	Failure-based sealing reliability analysis considering dynamic interval and hybrid uncertainties. *Eksploatacja I Niezawodnosc*, **2021**, 23, 278-284	3.5	2
66	Performance reliability analysis and optimization of lithium-ion battery packs based on multiphysics simulation and response surface methodology. *Journal of Power Sources*, **2021**, 490, 229567	8.9	2
65	A combined physics of failure and Bayesian network reliability analysis method for complex electronic systems. *Chemical Engineering Research and Design*, **2021**, 148, 698-710	5.5	6
64	Group maintenance optimization of subsea Xmas trees with stochastic dependency. *Reliability Engineering and System Safety*, **2021**, 209, 107450	6.3	15
63	Restoration of smart grids: Current status, challenges, and opportunities. *Renewable and Sustainable Energy Reviews*, **2021**, 143, 110909	16.2	19
62	A novel adaptive pigeon-inspired optimization algorithm based on evolutionary game theory. *Science China Information Sciences*, **2021**, 64, 1	3.4	1
61	Framework of machine criticality assessment with criteria interactions. *Eksploatacja I Niezawodnosc*, **2021**, 23, 207-220	3.5	12
60	Fatigue Reliability Analysis Method of Reactor Structure Considering Cumulative Effect of Irradiation. *Materials*, **2021**, 14,	3.5	1
59	Failure-based sealing reliability analysis considering dynamic interval and hybrid uncertainties. *Eksploatacja I Niezawodnosc*, **2021**, 23, 278-284	3.5	
58	An Intelligent Preventive Maintenance Method Based on Reinforcement Learning for Battery Energy Storage Systems. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 8254-8264	11.9	9
57	Resilience optimization for multi-UAV formation reconfiguration via enhanced pigeon-inspired optimization. *Chinese Journal of Aeronautics*, **2021**, 35, 110-110	3.7	3

56	Multiphysical modeling for life analysis of lithium-ion battery pack in electric vehicles. *Renewable and Sustainable Energy Reviews*, **2020**, 131, 109993	16.2	13
55	A reliability evaluation method for radial multi-microgrid systems considering distribution network transmission capacity. *Computers and Industrial Engineering*, **2020**, 139, 106145	6.4	14
54	The debonding failure mechanism analysis and performance experiments of 3D printed wiring boards **2020**,		1
53	Time-variant reliability modeling based on hybrid non-probability method. *Archive of Applied Mechanics*, **2020**, 90, 209-219	2.2	8
52	Application of artificial neural networks for quantitative damage detection in unidirectional composite structures based on Lamb waves. *Advances in Mechanical Engineering*, **2020**, 12, 168781402091473	1.2	10
51	An Archimedean Copula Function-Based Prediction Method for High-Power White LED Considering Multi-Performance. *IEEE Transactions on Electron Devices*, **2019**, 66, 3405-3410	2.9	3
50	A hybrid heuristic optimization of maintenance routing and scheduling for offshore wind farms. *Journal of Loss Prevention in the Process Industries*, **2019**, 62, 103949	3.5	14
49	Investigation of Step-Stress Accelerated Degradation Test Strategy for Ultraviolet Light Emitting Diodes. *Materials*, **2019**, 12,	3.5	11
48	Influence of Randomness in Rubber Materials Parameters on the Reliability of Rubber O-Ring Seal. *Materials*, **2019**, 12,	3.5	8
47	. *IEEE Access*, **2019**, 7, 80840-80848	3.5	4
46	Agent-based restoration approach for reliability with load balancing on smart grids. *Applied Energy*, **2019**, 249, 46-57	10.7	50
45	A modified reliability model for lithium-ion battery packs based on the stochastic capacity degradation and dynamic response impedance. *Journal of Power Sources*, **2019**, 423, 40-51	8.9	18
44	Characterization of Stochastically Distributed Voids in Sintered Nano-Silver Joints **2019**,		1
43	Sealing reliability modeling of aviation seal based on interval uncertainty method and multidimensional response surface. *Chinese Journal of Aeronautics*, **2019**, 32, 2188-2198	3.7	8
42	An agent-based approach for resources joint planning in a multi-echelon inventory system considering lateral transshipment. *Computers and Industrial Engineering*, **2019**, 138, 106098	6.4	4
41	An Agent-Based Reliability and Performance Modeling Approach for Multistate Complex Human-Machine Systems With Dynamic Behavior. *IEEE Access*, **2019**, 7, 135300-135311	3.5	6
40	A Heuristic Hybrid Optimization Approach for Spare Parts and Maintenance Workers Under Partial Pooling. *IEEE Access*, **2019**, 7, 137835-137847	3.5	1
39	Mobile Robot ADRC With an Automatic Parameter Tuning Mechanism via Modified Pigeon-Inspired Optimization. *IEEE/ASME Transactions on Mechatronics*, **2019**, 24, 2616-2626	5.5	21

38	Enhanced GO methodology to support failure mode, effects and criticality analysis. *Journal of Intelligent Manufacturing*, **2019**, 30, 1451-1468	6.7	13
37	. *IEEE Access*, **2018**, 6, 5151-5161	3.5	8
36	A GO-FLOW and Dynamic Bayesian Network Combination Approach for Reliability Evaluation With Uncertainty: A Case Study on a Nuclear Power Plant. *IEEE Access*, **2018**, 6, 7177-7189	3.5	26
35	FORM and Out-Crossing Combined Time-Variant Reliability Analysis Method for Ship Structures. *IEEE Access*, **2018**, 6, 9723-9732	3.5	9
34	Fleet-level selective maintenance problem under a phased mission scheme with short breaks: A heuristic sequential game approach. *Computers and Industrial Engineering*, **2018**, 119, 404-415	6.4	15
33	Availability-based engineering resilience metric and its corresponding evaluation methodology. *Reliability Engineering and System Safety*, **2018**, 172, 216-224	6.3	113
32	Gamma Degradation Process and Accelerated Model Combined Reliability Analysis Method for Rubber O-Rings. *IEEE Access*, **2018**, 6, 10581-10590	3.5	20
31	System Dynamic Behavior Modeling Based on Extended GO Methodology. *IEEE Access*, **2018**, 6, 22513-22523	3.5	7
30	A reliability design method for a lithium-ion battery pack considering the thermal disequilibrium in electric vehicles. *Journal of Power Sources*, **2018**, 386, 10-20	8.9	42
29	A Time-Variant Reliability Model for Copper Bending Pipe under Seawater-Active Corrosion Based on the Stochastic Degradation Process. *Materials*, **2018**, 11,	3.5	2
28	An Alternative Lifetime Model for White Light Emitting Diodes under Thermal?Electrical Stresses. *Materials*, **2018**, 11,	3.5	11
27	The effect of reactant consumption on thermal explosion of battery by using kinetic-based simulation approach. *Journal of Thermal Analysis and Calorimetry*, **2018**, 131, 1933-1948	4.1	
26	On the Robustness and Reliability in the Pose Deformation System of Mobile Robots. *IEEE Access*, **2018**, 6, 29747-29756	3.5	6
25	A Gamma Process-Based Prognostics Method for CCT Shift of High-Power White LEDs. *IEEE Transactions on Electron Devices*, **2018**, 65, 2909-2916	2.9	10
24	Ontology-Based Environmental Effectiveness Knowledge Application System for Optimal Reliability Design. *Journal of Computing and Information Science in Engineering*, **2017**, 17,	2.4	1
23	Cooperative game approach based on agent learning for fleet maintenance oriented to mission reliability. *Computers and Industrial Engineering*, **2017**, 112, 221-230	6.4	23
22	Heuristic hybrid game approach for fleet condition-based maintenance planning. *Reliability Engineering and System Safety*, **2017**, 157, 166-176	6.3	35
21	Dynamic scheduling of carrier aircraft based on improved ant colony algorithm under disruption and strong constraint **2017**,		2

20	Photometric and Colorimetric Assessment of LED Chip Scale Packages by Using a Step-Stress Accelerated Degradation Test (SSADT) Method. *Materials*, **2017**, 10,	3.5	11
19	Time-Variant Reliability Analysis for Rubber O-Ring Seal Considering Both Material Degradation and Random Load. *Materials*, **2017**, 10,	3.5	18
18	A novel critical infrastructure resilience assessment approach using dynamic Bayesian networks **2017**,		4
17	A modified GO-FLOW methodology with common cause failure based on Discrete Time Bayesian Network. *Nuclear Engineering and Design*, **2016**, 305, 476-488	1.8	24
16	A novel concept and assessment method for trustworthiness of prognostics. *Advances in Mechanical Engineering*, **2016**, 8, 168781401663880	1.2	1
15	A Novel Model of Reliability Assessment for Circular Electrical Connectors. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2015**, 5, 755-761	1.7	14
14	A reliability allocation method based on Bayesian networks and Analytic Hierarchy Process **2015**,		3
13	Quantify measuring method for combat unit mission focusing on unsuccess prevention. *Journal of Shanghai Jiaotong University (Science)*, **2015**, 20, 458-463	0.6	
12	Binary logic state transition oriented formal general reliability model. *Journal of Shanghai Jiaotong University (Science)*, **2015**, 20, 482-488	0.6	1
11	Accelerated Degradation Test and Predictive Failure Analysis of B10 Copper-Nickel Alloy under Marine Environmental Conditions. *Materials*, **2015**, 8, 6029-6042	3.5	10
10	A novel ontology approach to support design for reliability considering environmental effects. *Scientific World Journal, The*, **2015**, 2015, 734984	2.2	1
9	A method of fault tree generation based on go model **2015**,		2
8	Model based FMEA for electronic products **2015**,		1
7	Mission reliability prediction methods for board-level electronic equipment based on physics of failure and Bayesian networks **2015**,		2
6	An optimization method for condition based maintenance of aircraft fleet considering prognostics uncertainty. *Scientific World Journal, The*, **2014**, 2014, 430190	2.2	7
5	A New Algorithm of GO Methodology Based on Minimal Path Set. *AASRI Procedia*, **2012**, 3, 368-374		5
4	Accelerated storage degradation test and life extension assessment method for hermetically sealed electromagnetic relay **2011**,		2
3	Fuzzy multi-state fault tree analysis based on fuzzy expert system **2011**,		2