Qiang Feng

List of Publications by Year in Descending Order

59 papers	689 citations	14 h-index	24 g-index
80 ext. papers	975 ext. citations	5 avg, IF	4.6 L-index

#	Paper	IF	Citations
59	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
58	Importance measure-based phased mission reliability and UAV number optimization for swarm. *Reliability Engineering and System Safety*, **2022**, 223, 108478	6.3	2
57	Small sample reliability assessment with online time-series data based on a worm WGAN learning method. *IEEE Transactions on Industrial Informatics*, **2022**, 1-1	11.9	
56	An Electric Fence-Based Intelligent Scheduling Method for Rebalancing Dockless Bike Sharing Systems. *Applied Sciences (Switzerland)*, **2022**, 12, 5031	2.6	1
55	Artificial Intelligence Enhanced Reliability Assessment Methodology With Small Samples. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	5
54	Artificial Intelligence Enhanced Two-stage Hybrid Fault Prognosis Methodology of PMSM. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1	11.9	8
53	Adaptive ranking based ensemble learning of Gaussian process regression models for quality-related variable prediction in process industries. *Applied Soft Computing Journal*, **2021**, 101, 107060	7.5	5
52	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
51	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
50	Group maintenance optimization of subsea Xmas trees with stochastic dependency. *Reliability Engineering and System Safety*, **2021**, 209, 107450	6.3	15
49	Restoration of smart grids: Current status, challenges, and opportunities. *Renewable and Sustainable Energy Reviews*, **2021**, 143, 110909	16.2	19
48	A novel adaptive pigeon-inspired optimization algorithm based on evolutionary game theory. *Science China Information Sciences*, **2021**, 64, 1	3.4	1
47	Resilience assessment approach of mechanical structure combining finite element models and dynamic Bayesian networks. *Reliability Engineering and System Safety*, **2021**, 216, 108043	6.3	3
46	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
45	Resilience optimization for multi-UAV formation reconfiguration via enhanced pigeon-inspired optimization. *Chinese Journal of Aeronautics*, **2021**, 35, 110-110	3.7	3
44	An Effectiveness Modelling Approach for IoT-Based Smart Grids. *Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series*, **2021**, 92-111	0.4	
43	Multiphysical modeling for life analysis of lithium-ion battery pack in electric vehicles. *Renewable and Sustainable Energy Reviews*, **2020**, 131, 109993	16.2	13

42	Physics-of-failure and computer-aided simulation fusion approach with a software system for electronics reliability analysis. *Eksploatacja I Niezawodnosc*, **2020**, 22, 340-351	3.5	14
41	A reliability evaluation method for radial multi-microgrid systems considering distribution network transmission capacity. *Computers and Industrial Engineering*, **2020**, 139, 106145	6.4	14
40	The debonding failure mechanism analysis and performance experiments of 3D printed wiring boards **2020**,		1
39	Time-variant reliability modeling based on hybrid non-probability method. *Archive of Applied Mechanics*, **2020**, 90, 209-219	2.2	8
38	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
37	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
36	Reliability analysis of dynamic reliability block diagram based on dynamic uncertain causality graph. *Journal of Loss Prevention in the Process Industries*, **2019**, 62, 103947	3.5	5
35	Remaining useful life prediction of aviation circular electrical connectors using vibration-induced physical model and particle filtering method. *Microelectronics Reliability*, **2019**, 92, 114-122	1.2	16
34	. *IEEE Access*, **2019**, 7, 80840-80848	3.5	4
33	Agent-based restoration approach for reliability with load balancing on smart grids. *Applied Energy*, **2019**, 249, 46-57	10.7	50
32	Resilience design method based on meta-structure: A case study of offshore wind farm. *Reliability Engineering and System Safety*, **2019**, 186, 232-244	6.3	50
31	Characterization of Stochastically Distributed Voids in Sintered Nano-Silver Joints **2019**,		1
30	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
29	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
28	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
27	A Heuristic Hybrid Optimization Approach for Spare Parts and Maintenance Workers Under Partial Pooling. *IEEE Access*, **2019**, 7, 137835-137847	3.5	1
26	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
25	. *IEEE Access*, **2018**, 6, 5151-5161	3.5	8

24	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
23	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
22	Availability-based engineering resilience metric and its corresponding evaluation methodology. *Reliability Engineering and System Safety*, **2018**, 172, 216-224	6.3	113
21	Gamma Degradation Process and Accelerated Model Combined Reliability Analysis Method for Rubber O-Rings. *IEEE Access*, **2018**, 6, 10581-10590	3.5	20
20	System Dynamic Behavior Modeling Based on Extended GO Methodology. *IEEE Access*, **2018**, 6, 22513-22523	3.5	7
19	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
18	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
17	An Alternative Lifetime Model for White Light Emitting Diodes under Thermal?Electrical Stresses. *Materials*, **2018**, 11,	3.5	11
16	A City Medical Resources Distribution Optimization Platform Based on Cyber Physical Systems (CPS) **2018**,		3
15	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
14	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
13	Heuristic hybrid game approach for fleet condition-based maintenance planning. *Reliability Engineering and System Safety*, **2017**, 157, 166-176	6.3	35
12	Dynamic scheduling of carrier aircraft based on improved ant colony algorithm under disruption and strong constraint **2017**,		2
11	A novel critical infrastructure resilience assessment approach using dynamic Bayesian networks **2017**,		4
10	A novel concept and assessment method for trustworthiness of prognostics. *Advances in Mechanical Engineering*, **2016**, 8, 168781401663880	1.2	1
9	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
8	Quantify measuring method for combat unit mission focusing on unsuccess prevention. *Journal of Shanghai Jiaotong University (Science)*, **2015**, 20, 458-463	0.6	
7	Accelerated Degradation Test and Predictive Failure Analysis of B10 Copper-Nickel Alloy under Marine Environmental Conditions. *Materials*, **2015**, 8, 6029-6042	3.5	10

List of Publications

6	Environmental effectiveness ontology based method for enhancing FMECA **2015**, 1725-1732		1
5	A multi-agent based intelligent configuration method for aircraft fleet maintenance personnel. *Chinese Journal of Aeronautics*, **2014**, 27, 280-290	3.7	15
4	An optimization method for condition based maintenance of aircraft fleet considering prognostics uncertainty. *Scientific World Journal, The*, **2014**, 2014, 430190	2.2	7
3	Lifetime prediction for electrical connector under the action of random vibration loading **2012**,		1
2	Accelerated storage degradation test and life extension assessment method for hermetically sealed electromagnetic relay **2011**,		2
1	Process reengineering method for synthesis design of reliability maintainability supportability and performance **2011**,		1