# Qiang Feng

## List of Publications by Citations

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|---|---|
| **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 | Availability-based engineering resilience metric and its corresponding evaluation methodology. *Reliability Engineering and System Safety*, **2018**, 172, 216-224 | 6.3 | 113 |
| 58 | Agent-based restoration approach for reliability with load balancing on smart grids. *Applied Energy*, **2019**, 249, 46-57 | 10.7 | 50 |
| 57 | 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 |
| 56 | 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 |
| 55 | Heuristic hybrid game approach for fleet condition-based maintenance planning. *Reliability Engineering and System Safety*, **2017**, 157, 166-176 | 6.3 | 35 |
| 54 | 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 |
| 53 | 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 |
| 52 | 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 |
| 51 | Gamma Degradation Process and Accelerated Model Combined Reliability Analysis Method for Rubber O-Rings. *IEEE Access*, **2018**, 6, 10581-10590 | 3.5 | 20 |
| 50 | Restoration of smart grids: Current status, challenges, and opportunities. *Renewable and Sustainable Energy Reviews*, **2021**, 143, 110909 | 16.2 | 19 |
| 49 | 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 |
| 48 | 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 |
| 47 | A multi-agent based intelligent configuration method for aircraft fleet maintenance personnel. *Chinese Journal of Aeronautics*, **2014**, 27, 280-290 | 3.7 | 15 |
| 46 | Group maintenance optimization of subsea Xmas trees with stochastic dependency. *Reliability Engineering and System Safety*, **2021**, 209, 107450 | 6.3 | 15 |
| 45 | 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 |
| 44 | 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 |
| 43 | 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 |

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| 42 | A reliability evaluation method for radial multi-microgrid systems considering distribution network transmission capacity. *Computers and Industrial Engineering*, **2020**, 139, 106145 | 6.4 | 14 |
| 41 | Multiphysical modeling for life analysis of lithium-ion battery pack in electric vehicles. *Renewable and Sustainable Energy Reviews*, **2020**, 131, 109993 | 16.2 | 13 |
| 40 | An Alternative Lifetime Model for White Light Emitting Diodes under Thermal?Electrical Stresses. *Materials*, **2018**, 11, | 3.5 | 11 |
| 39 | Accelerated Degradation Test and Predictive Failure Analysis of B10 Copper-Nickel Alloy under Marine Environmental Conditions. *Materials*, **2015**, 8, 6029-6042 | 3.5 | 10 |
| 38 | 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 |
| 37 | 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 |
| 36 | . *IEEE Access*, **2018**, 6, 5151-5161 | 3.5 | 8 |
| 35 | 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 |
| 34 | Artificial Intelligence Enhanced Two-stage Hybrid Fault Prognosis Methodology of PMSM. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1 | 11.9 | 8 |
| 33 | Time-variant reliability modeling based on hybrid non-probability method. *Archive of Applied Mechanics*, **2020**, 90, 209-219 | 2.2 | 8 |
| 32 | System Dynamic Behavior Modeling Based on Extended GO Methodology. *IEEE Access*, **2018**, 6, 22513-22523 | 3.5 | 7 |
| 31 | An optimization method for condition based maintenance of aircraft fleet considering prognostics uncertainty. *Scientific World Journal, The*, **2014**, 2014, 430190 | 2.2 | 7 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | Artificial Intelligence Enhanced Reliability Assessment Methodology With Small Samples. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP, | 10.3 | 5 |
| 26 | 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 |
| 25 | . *IEEE Access*, **2019**, 7, 80840-80848 | 3.5 | 4 |

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| 24 | 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 |
| 23 | A novel critical infrastructure resilience assessment approach using dynamic Bayesian networks **2017**, | | 4 |
| 22 | 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 |
| 21 | A City Medical Resources Distribution Optimization Platform Based on Cyber Physical Systems (CPS) **2018**, | | 3 |
| 20 | 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 |
| 19 | Resilience optimization for multi-UAV formation reconfiguration via enhanced pigeon-inspired optimization. *Chinese Journal of Aeronautics*, **2021**, 35, 110-110 | 3.7 | 3 |
| 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 | Dynamic scheduling of carrier aircraft based on improved ant colony algorithm under disruption and strong constraint **2017**, | | 2 |
| 16 | Accelerated storage degradation test and life extension assessment method for hermetically sealed electromagnetic relay **2011**, | | 2 |
| 15 | 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 |
| 14 | 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 |
| 13 | Importance measure-based phased mission reliability and UAV number optimization for swarm. *Reliability Engineering and System Safety*, **2022**, 223, 108478 | 6.3 | 2 |
| 12 | A novel concept and assessment method for trustworthiness of prognostics. *Advances in Mechanical Engineering*, **2016**, 8, 168781401663880 | 1.2 | 1 |
| 11 | Characterization of Stochastically Distributed Voids in Sintered Nano-Silver Joints **2019**, | | 1 |
| 10 | A Heuristic Hybrid Optimization Approach for Spare Parts and Maintenance Workers Under Partial Pooling. *IEEE Access*, **2019**, 7, 137835-137847 | 3.5 | 1 |
| 9 | Lifetime prediction for electrical connector under the action of random vibration loading **2012**, | | 1 |
| 8 | Process reengineering method for synthesis design of reliability maintainability supportability and performance **2011**, | | 1 |
| 7 | Environmental effectiveness ontology based method for enhancing FMECA **2015**, 1725-1732 | | 1 |

# LIST OF PUBLICATIONS

| 6 | The debonding failure mechanism analysis and performance experiments of 3D printed wiring boards **2020**, | | 1 |
|---|---|---|---|
| 5 | A novel adaptive pigeon-inspired optimization algorithm based on evolutionary game theory. *Science China Information Sciences*, **2021**, 64, 1 | 3.4 | 1 |
| 4 | An Electric Fence-Based Intelligent Scheduling Method for Rebalancing Dockless Bike Sharing Systems. *Applied Sciences (Switzerland)*, **2022**, 12, 5031 | 2.6 | 1 |
| 3 | Quantify measuring method for combat unit mission focusing on unsuccess prevention. *Journal of Shanghai Jiaotong University (Science)*, **2015**, 20, 458-463 | 0.6 | |
| 2 | 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 | |
| 1 | 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 | |