Bo Sun

List of Publications by Year in Descending Order

67 papers	953 citations	18 h-index	27 g-index
77 ext. papers	1,284 ext. citations	4.6 avg, IF	4.84 L-index

#	Paper	IF	Citations
67	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
66	An Electric Fence-Based Intelligent Scheduling Method for Rebalancing Dockless Bike Sharing Systems. *Applied Sciences (Switzerland)*, **2022**, 12, 5031	2.6	1
65	A rapid procedure for bacterial identification and antimicrobial susceptibility testing directly from positive blood cultures. *Analyst, The*, **2021**,	5	2
64	Application of MICMAC, Fuzzy AHP, and Fuzzy TOPSIS for Evaluation of the Maintenance Factors Affecting Sustainable Manufacturing. *Energies*, **2021**, 14, 1436	3.1	22
63	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
62	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
61	Group maintenance optimization of subsea Xmas trees with stochastic dependency. *Reliability Engineering and System Safety*, **2021**, 209, 107450	6.3	15
60	Restoration of smart grids: Current status, challenges, and opportunities. *Renewable and Sustainable Energy Reviews*, **2021**, 143, 110909	16.2	19
59	Convolutional neural network based capacity estimation using random segments of the charging curves for lithium-ion batteries. *Energy*, **2021**, 227, 120333	7.9	19
58	Fatigue Reliability Analysis Method of Reactor Structure Considering Cumulative Effect of Irradiation. *Materials*, **2021**, 14,	3.5	1
57	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
56	Resilience optimization for multi-UAV formation reconfiguration via enhanced pigeon-inspired optimization. *Chinese Journal of Aeronautics*, **2021**, 35, 110-110	3.7	3
55	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	
54	Label-free serum detection based on Raman spectroscopy for the diagnosis and classification of glioma. *Journal of Raman Spectroscopy*, **2020**, 51, 1977-1985	2.3	4
53	Multiphysical modeling for life analysis of lithium-ion battery pack in electric vehicles. *Renewable and Sustainable Energy Reviews*, **2020**, 131, 109993	16.2	13
52	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
51	A reliability evaluation method for radial multi-microgrid systems considering distribution network transmission capacity. *Computers and Industrial Engineering*, **2020**, 139, 106145	6.4	14

50	Rapid Detection of and Genes by Loop-Mediated Isothermal Amplification in a Microfluidic System for Discrimination of Different Staphylococcal Species and Prediction of Methicillin Resistance. *Frontiers in Microbiology*, **2020**, 11, 1487	5.7	4
49	The debonding failure mechanism analysis and performance experiments of 3D printed wiring boards **2020**,		1
48	Time-variant reliability modeling based on hybrid non-probability method. *Archive of Applied Mechanics*, **2020**, 90, 209-219	2.2	8
47	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
46	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
45	Investigation of Step-Stress Accelerated Degradation Test Strategy for Ultraviolet Light Emitting Diodes. *Materials*, **2019**, 12,	3.5	11
44	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
43	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
42	Influence of Randomness in Rubber Materials Parameters on the Reliability of Rubber O-Ring Seal. *Materials*, **2019**, 12,	3.5	8
41	. *IEEE Access*, **2019**, 7, 80840-80848	3.5	4
40	Agent-based restoration approach for reliability with load balancing on smart grids. *Applied Energy*, **2019**, 249, 46-57	10.7	50
39	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
38	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
37	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
36	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
35	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
34	A Heuristic Hybrid Optimization Approach for Spare Parts and Maintenance Workers Under Partial Pooling. *IEEE Access*, **2019**, 7, 137835-137847	3.5	1
33	Lumen Degradation Lifetime Prediction for High-Power White LEDs Based on the Gamma Process Model. *IEEE Photonics Journal*, **2019**, 11, 1-16	1.8	12

32	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
31	FORM and Out-Crossing Combined Time-Variant Reliability Analysis Method for Ship Structures. *IEEE Access*, **2018**, 6, 9723-9732	3.5	9
30	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
29	Gamma Degradation Process and Accelerated Model Combined Reliability Analysis Method for Rubber O-Rings. *IEEE Access*, **2018**, 6, 10581-10590	3.5	20
28	System Dynamic Behavior Modeling Based on Extended GO Methodology. *IEEE Access*, **2018**, 6, 22513-22523	3.5	7
27	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
26	Enhance GO methodology for reliability analysis of the closed-loop system using Cyclic Bayesian Networks. *Mechanical Systems and Signal Processing*, **2018**, 113, 237-252	7.8	8
25	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
24	An Alternative Lifetime Model for White Light Emitting Diodes under Thermal?Electrical Stresses. *Materials*, **2018**, 11,	3.5	11
23	PHM of Light-Emitting Diodes **2018**, 377-430		
22	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
21	A novel lifetime prediction for integrated LED lamps by electronic-thermal simulation. *Reliability Engineering and System Safety*, **2017**, 163, 14-21	6.3	27
20	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
19	A Review of Prognostic Techniques for High-Power White LEDs. *IEEE Transactions on Power Electronics*, **2017**, 32, 6338-6362	7.2	53
18	Heuristic hybrid game approach for fleet condition-based maintenance planning. *Reliability Engineering and System Safety*, **2017**, 157, 166-176	6.3	35
17	Prognostics-based qualification of high-power white LEDs using Lévy process approach. *Mechanical Systems and Signal Processing*, **2017**, 82, 206-216	7.8	10
16	Multidimensional Data-Driven Life Prediction Method for White LEDs Based on BP-NN and Improved-Adaboost Algorithm. *IEEE Access*, **2017**, 5, 21660-21668	3.5	24
15	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

LIST OF PUBLICATIONS

14	Time-Variant Reliability Analysis for Rubber O-Ring Seal Considering Both Material Degradation and Random Load. *Materials*, **2017**, 10,	3.5	18
13	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
12	A novel concept and assessment method for trustworthiness of prognostics. *Advances in Mechanical Engineering*, **2016**, 8, 168781401663880	1.2	1
11	Lamb-Wave-Based Tomographic Imaging Techniques for Hole-Edge Corrosion Monitoring in Plate Structures. *Materials*, **2016**, 9,	3.5	25
10	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
9	Envelope probability and EFAST-based sensitivity analysis method for electronic prognostic uncertainty quantification. *Microelectronics Reliability*, **2015**, 55, 1384-1390	1.2	5
8	A novel model of failure rate prediction for circular electrical connectors. *Journal of Shanghai Jiaotong University (Science)*, **2015**, 20, 472-476	0.6	
7	Time-variant reliability analysis of ship grillage structure **2015**,		2
6	Accelerated Degradation Test and Predictive Failure Analysis of B10 Copper-Nickel Alloy under Marine Environmental Conditions. *Materials*, **2015**, 8, 6029-6042	3.5	10
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	. *IEEE Transactions on Reliability*, **2012**, 61, 323-335	4.6	116
2	Process reengineering method for synthesis design of reliability maintainability supportability and performance **2011**,		1
1	Benefits analysis of prognostics in systems **2010**,		13