Yunxia Chen

List of Publications by Year
in descending order

61 papers	451 citations	687363 13 h-index	794594 19 g-index
61 all docs	61 docs citations	61 times ranked	397 citing authors

#	Article	IF	Citations
1	Prognostics of Lithium-Ion Batteries Based on Capacity Regeneration Analysis and Long Short-Term Memory Network. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	4.7	8
2	Cascading Failure Modeling for Circuit Systems Using Impedance Networks: A Current-Flow Redistribution Approach. IEEE Transactions on Industrial Electronics, 2021, 68, 632-641.	7.9	13
3	Predicting adhesive sealing life of Li-ion pouch cell using a fusion method considering time-varying dependence. Journal of Adhesion, 2021, 97, 840-859.	3.0	2
4	Two new multi-phase reliability growth models from the perspective of time between failures and their applications. Chinese Journal of Aeronautics, 2021, 34, 341-349.	5.3	5
5	A quantum-inspired model for statistical analysis of repairable systems. Computers and Industrial Engineering, 2021, 161, 107613.	6.3	2
6	A Kernel-Density based Semi-Parametric stochastic degradation model with dependent increments. Mechanical Systems and Signal Processing, 2021, 161, 107978.	8.0	5
7	A semi-quantum approach for modelling the accelerated test data. Applied Mathematical Modelling, 2021, , .	4.2	0
8	Review and propositions for the sliding/impact wear behavior in a contact interface. Chinese Journal of Aeronautics, 2020, 33, 391-406.	5.3	22
9	A non-Hermitian quantum approach to reliability of a two-state system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126207.	2.1	2
10	Reliability Prediction of Battery Management System for Electric Vehicles Based on Accelerated Degradation Test: A Semi-Parametric Approach. IEEE Transactions on Vehicular Technology, 2020, 69, 12694-12704.	6.3	16
11	A generalized model for static fatigue lifetime evaluation of optical fibers to reduce the model uncertainty. Applied Mathematical Modelling, 2020, 88, 731-742.	4.2	3
12	$\overline{\alpha}$-S-N curve: A novel S-N curve modeling method under small-sample test data using uncertainty theory. International Journal of Fatigue, 2020, 139, 105725.	5.7	16
13	Modeling and Analysis of the Time-Dependent Contact Behavior of Multiscale Rough Surfaces Subjected to Random Shocks. Tribology Transactions, 2020, 63, 597-609.	2.0	0
14	Model-driven degradation modeling approaches: Investigation and review. Chinese Journal of Aeronautics, 2020, 33, 1137-1153.	5.3	40
15	Adhesion-fatigue dual mode wear model for fractal surfaces in AISI 1045 cylinder-plane contact pairs. Wear, 2019, 430-431, 327-339.	3.1	14
16	Optimal Design of Accelerated Life Test Plan for Test Standard of a Manufacturer Making Multi-Series Products. IEEE Access, 2019, 7, 171840-171852.	4.2	0
17	Reliability assessment with varying safety threshold for shock resistant systems. Reliability Engineering and System Safety, 2019, 185, 49-60.	8.9	14
18	Coupling fractal model for adhesive and three-body abrasive wear of AISI 1045 carbon steel spool valves. Wear, 2019, 418-419, 75-85.	3.1	14

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19	Life Cycle Prediction Model of Safety Vent Based on Two-Phase Degradation Process. IEEE Access, 2018, 6, 19034-19043.	4.2	7
20	Failure behavior modeling and reliability estimation of product based on vine-copula and accelerated degradation data. Mechanical Systems and Signal Processing, 2018, 113, 50-64.	8.0	21
21	Optimization Design of the Positive Electrode Performance for Lithium-Ion Batteries Based on Maximum Entropy Principle. , 2018, , .		0
22	Sealing life prediction of Li-ion pouch cell under uncertainties using a CZM-based degradation model. International Journal of Adhesion and Adhesives, 2018, 84, 378-386.	2.9	8
23	Coupling damage and reliability modeling for creep and fatigue of solder joint. Microelectronics Reliability, 2017, 75, 233-238.	1.7	20
24	A compositional method to model dependent failure behavior based on PoF models. Chinese Journal of Aeronautics, 2017, 30, 1729-1739.	5.3	15
25	Reliability assessment model considering heterogeneous population in a multiple stresses accelerated test. Reliability Engineering and System Safety, 2017, 165, 134-143.	8.9	30
26	Multivariate Degradation Modeling of Smart Electricity Meter with Multiple Performance Characteristics via Vine Copulas. Quality and Reliability Engineering International, 2017, 33, 803-821.	2.3	38
27	Multi-Stress Equivalent Optimum Design for Ramp-Stress Accelerated Life Test Plans Based on D-Efficiency. IEEE Access, 2017, 5, 25854-25862.	4.2	7
28	Life Prediction of Lithium Ion Batteries for Electric Vehicles Based on Gas Production Behavior Model. , 2017, , .		3
29	The time-varying mesh stiffness modeling of gear system with spalling defects in different positions. , 2017, , .		0
30	Crack Propagation Calculations for Optical Fibers under Static Bending and Tensile Loads Using Continuum Damage Mechanics. Sensors, 2017, 17, 2633.	3.8	4
31	Analysis of cascading failure of circuit systems based on load-capacity model of complex network. , 2017, , .		3
32	Sealing life prediction of Li-ion pouch cell using non-linear peeling model. , 2017, , .		1
33	A novel strategy for fault propagation study on complicated gear system based on network theory. , 2017, , .		0
34	Fatigue life prediction for structure under fatigue and low-energy impact based on continuum damage mechanics. , 2016, , .		0
35	Economic life prediction of repairable multi-component systems based on extension theory. , 2016, , .		0
36	Reliability of multi-state systems considering failure propagating mechanisms. , 2016, , .		0

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37	Equivalent optimum design for accelerated life test scheme based on D-efficiency. , 2016, , .		1
38	A strategy for fatigue life estimation under variable amplitude loading in consideration of load sequence based on damage mechanics. , 2016, , .		0
39	Using PoF models to predict system reliability considering failure collaboration. Chinese Journal of Aeronautics, 2016, 29, 1294-1301.	5.3	31
40	Study of Preferred Profile of Accelerated Stability Test Method for Quartz Flexible Accelerometer. Journal of Testing and Evaluation, 2016, 44, 1084-1094.	0.7	0
41	Analysis of dynamic contact mechanical response and contact life of low speed spur gear. , 2015, , .		1
42	Methods to determine stress profile in ALT based on theoretical life models. Chinese Journal of Aeronautics, 2015, 28, 729-736.	5.3	4
43	Research on the wear mechanism coupling modeling of spool valve. , 2015, , .		5
44	Reliability Prediction Using Physics–Statistics-Based Degradation Model. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 1573-1581.	2.5	16
45	Measuring reliability during product development considering aleatory and epistemic uncertainty. , 2015, , .		10
46	A fatigue and low-energy shock-based approach to predict fatigue life. Journal of Mechanical Science and Technology, 2014, 28, 3977-3984.	1.5	8
47	Consistency analysis of accelerated degradation mechanism based on gray theory. Journal of Systems Engineering and Electronics, 2014, 25, 322-331.	2.2	4
48	Coupling damage and reliability model of low-cycle fatigue and high energy impact based on the local stress–strain approach. Chinese Journal of Aeronautics, 2014, 27, 846-855.	5.3	11
49	Notice of Retraction Reliability model of missile with disturbance-dependence. , 2013, , .		0
50	Notice of Retraction Research on heading sensitive drift storage behavior of inertial platform system under the influence of temperature. , 2013, , .		1
51	Notice of Retraction Research on life calculation method for non-electric products based on life model library. , 2013, , .		1
52	Simulation-based constructions of reliability confidence intervals from degradation data. , 2013, , .		0
53	Notice of Retraction An approach for prediction of fatigue life based on fatigue and low-energy shocks. , 2013, , .		2
54	Outlier test and analysis method of degradation data under unequal error variances. , 2012, , .		0

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55	Validation methodology for distribution-based degradation model. Journal of Systems Engineering and Electronics, 2012, 23, 553-559.	2.2	5
56	Generation of Accelerated Stability Experiment Profile of Inertial Platform Based on Finite Element. Chinese Journal of Aeronautics, 2012, 25, 584-592.	5.3	3
57	Research on the degradation mechanisms and finite element modeling of accelerometers. , 2011, , .		1
58	Study of Accelerated Stability Test Method for Quartz Flexible Accelerometer. IEEE Transactions on Device and Materials Reliability, 2011, 11, 148-156.	2.0	14
59	Performance reliability response surface method for flight control system of UAV. , 2009, , .		0
60	A new method of calculating generalized correlation coefficient for reliability analysis of missile. , 2009, , .		0
61	A new dual-mode wear model of abrasionâ€"fatigue for plane (100Cr6)-cylinder (C45E4) steel pairs with fractal surfaces. Tribology Transactions, 0, , 1-19.	2.0	0