

# Shuai Zhao

## List of Publications by Year in descending order

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34  
papers

959  
citations

759233

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h-index

940533

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34  
all docs

34  
docs citations

34  
times ranked

598  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physics-informed Machine Learning for Parameter Estimation of DC-DC Converter. , 2022, , .		0
2	Parameter Estimation of Power Electronic Converters With Physics-Informed Machine Learning. IEEE Transactions on Power Electronics, 2022, 37, 11567-11578.	7.9	19
3	Circuit Parameter Identification of Degrading DC-DC Converters Based on Physics-informed Neural Network. , 2022, , .		3
4	A Fault Diagnosis Platform of Actuators on Embedded IoT Microcontrollers. , 2022, , .		1
5	A Multivariate Time Series Anomaly Detection Method Based on Generative Model. , 2022, , .		0
6	A Composite Failure Precursor for Condition Monitoring and Remaining Useful Life Prediction of Discrete Power Devices. IEEE Transactions on Industrial Informatics, 2021, 17, 688-698.	11.3	35
7	A Digital Twin Based Estimation Method for Health Indicators of DC-DC Converters. IEEE Transactions on Power Electronics, 2021, 36, 2105-2118.	7.9	121
8	A generalized remaining useful life prediction method for complex systems based on composite health indicator. Reliability Engineering and System Safety, 2021, 205, 107241.	8.9	76
9	An Overview of Artificial Intelligence Applications for Power Electronics. IEEE Transactions on Power Electronics, 2021, 36, 4633-4658.	7.9	354
10	Health State Estimation and Remaining Useful Life Prediction of Power Devices Subject to Noisy and Aperiodic Condition Monitoring. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-16.	4.7	15
11	A Multimode Anomaly Detection Method Based on OC-ELM for Aircraft Engine System. IEEE Access, 2021, 9, 28842-28855.	4.2	2
12	Enabling Data-Driven Condition Monitoring of Power Electronic Systems With Artificial Intelligence: Concepts, Tools, and Developments. IEEE Power Electronics Magazine, 2021, 8, 18-27.	0.7	44
13	Digital Twin for Degradation Parameters Identification of DC-DC Converters Based on Bayesian Optimization. , 2021, , .		14
14	Remaining Useful Life Prediction of IIoT-Enabled Complex Industrial Systems With Hybrid Fusion of Multiple Information Sources. IEEE Internet of Things Journal, 2021, 8, 9045-9058.	8.7	27
15	Lifetime Prediction of the Film Capacitor based on Early Degradation Information. , 2021, , .		1
16	Bayesian Neural Network Based Method of Remaining Useful Life Prediction and Uncertainty Quantification for Aircraft Engine. , 2020, , .		8
17	Remaining Useful Life Prediction for Complex Systems With Multiple Indicators Based on Particle Filter and Parameter Correlation. IEEE Access, 2020, 8, 215145-215156.	4.2	7
18	Health Assessment Method for Electronic Components Subject to Condition Monitoring and Hard Failure. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 138-150.	4.7	40

#	ARTICLE	IF	CITATIONS
19	Degradation modeling for reliability estimation of DC film capacitors subject to humidity acceleration. <i>Microelectronics Reliability</i> , 2019, 100-101, 113401.	1.7	12
20	An Improved Particle Filter Method for Accurate Remaining Useful Life Prediction. , 2019, , .		0
21	A Novel Bayesian Update Method for Parameter Reconstruction of Remaining Useful Life Prognostics. , 2019, , .		0
22	A New Anomaly Detection Method Based on Multi-dimensional Condition Monitoring Data for Aircraft Engine. , 2019, , .		0
23	Degradation Assessment and Precursor Identification for SiC MOSFETs Under High Temp Cycling. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 2858-2867.	4.9	83
24	Evaluation of Reliability Function and Mean Residual Life for Degrading Systems Subject to Condition Monitoring and Random Failure. <i>IEEE Transactions on Reliability</i> , 2018, 67, 13-25.	4.6	32
25	Health evaluation method for degrading systems subject to dependent competing risks. <i>Journal of Systems Engineering and Electronics</i> , 2018, 29, 436-444.	2.2	11
26	A Data Fusion-Based Methodology of Constructing Health Indicators for Anomaly Detection and Prognostics. , 2018, , .		2
27	A New Method of Online Fault Diagnosis Based on Incremental Continuous Attribute Naive Bayesian. , 2018, , .		0
28	Adaptive and robust prediction for the remaining useful life of electrolytic capacitors. <i>Microelectronics Reliability</i> , 2018, 87, 64-74.	1.7	27
29	Research on fault feature extraction for analog circuits. , 2016, , .		0
30	Reliability evaluation for an electronic system subject to competing risks of dependent soft and hard failures. , 2016, , .		2
31	Application of DE-ELM in analog circuit fault diagnosis. , 2016, , .		5
32	On-line reliability assessment for an electronic system subject to condition monitoring. , 2016, , .		6
33	Analog Circuit Fault Diagnosis Based on DE OS-ELM. , 2014, , .		2
34	A new analog circuit fault diagnosis approach based on GA-SVM. , 2013, , .		10