

# Shuai Zhao

## List of Publications by Year in descending order

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34  
papers

959  
citations

759233

12  
h-index

940533

16  
g-index

34  
all docs

34  
docs citations

34  
times ranked

598  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | An Overview of Artificial Intelligence Applications for Power Electronics. IEEE Transactions on Power Electronics, 2021, 36, 4633-4658.  | 7.9  | 354       |
| 2  | 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       |
| 3  | Degradation Assessment and Precursor Identification for SiC MOSFETs Under High Temp Cycling. IEEE Transactions on Industry Applications, 2019, 55, 2858-2867.  | 4.9  | 83        |
| 4  | 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        |
| 5  | 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        |
| 6  | 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        |
| 7  | 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        |
| 8  | Evaluation of Reliability Function and Mean Residual Life for Degrading Systems Subject to Condition Monitoring and Random Failure. IEEE Transactions on Reliability, 2018, 67, 13-25.                   | 4.6  | 32        |
| 9  | Adaptive and robust prediction for the remaining useful life of electrolytic capacitors. Microelectronics Reliability, 2018, 87, 64-74.  | 1.7  | 27        |
| 10 | 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        |
| 11 | Parameter Estimation of Power Electronic Converters With Physics-Informed Machine Learning. IEEE Transactions on Power Electronics, 2022, 37, 11567-11578.   | 7.9  | 19        |
| 12 | 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        |
| 13 | Digital Twin for Degradation Parameters Identification of DC-DC Converters Based on Bayesian Optimization. , 2021, , .   |      | 14        |
| 14 | Degradation modeling for reliability estimation of DC film capacitors subject to humidity acceleration. Microelectronics Reliability, 2019, 100-101, 113401.   | 1.7  | 12        |
| 15 | Health evaluation method for degrading systems subject to dependent competing risks. Journal of Systems Engineering and Electronics, 2018, 29, 436-444.  | 2.2  | 11        |
| 16 | A new analog circuit fault diagnosis approach based on GA-SVM. , 2013, , .   |      | 10        |
| 17 | Bayesian Neural Network Based Method of Remaining Useful Life Prediction and Uncertainty Quantification for Aircraft Engine. , 2020, , .   |      | 8         |
| 18 | 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         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | On-line reliability assessment for an electronic system subject to condition monitoring. , 2016, , .                        |     | 6         |
| 20 | Application of DE-ELM in analog circuit fault diagnosis. , 2016, , .  |     | 5         |
| 21 | Circuit Parameter Identification of Degrading DC-DC Converters Based on Physics-informed Neural Network. , 2022, , .        |     | 3         |
| 22 | Analog Circuit Fault Diagnosis Based on DE OS-ELM. , 2014, , .  |     | 2         |
| 23 | Reliability evaluation for an electronic system subject to competing risks of dependent soft and hard failures. , 2016, , . |     | 2         |
| 24 | A Data Fusion-Based Methodology of Constructing Health Indicators for Anomaly Detection and Prognostics. , 2018, , .        |     | 2         |
| 25 | A Multimode Anomaly Detection Method Based on OC-ELM for Aircraft Engine System. IEEE Access, 2021, 9, 28842-28855.         | 4.2 | 2         |
| 26 | Lifetime Prediction of the Film Capacitor based on Early Degradation Information. , 2021, , .                               |     | 1         |
| 27 | A Fault Diagnosis Platform of Actuators on Embedded IoT Microcontrollers. , 2022, , .                                       |     | 1         |
| 28 | Research on fault feature extraction for analog circuits. , 2016, , .   |     | 0         |
| 29 | A New Method of Online Fault Diagnosis Based on Incremental Continuous Attribute Naive Bayesian. , 2018, , .                |     | 0         |
| 30 | An Improved Particle Filter Method for Accurate Remaining Useful Life Prediction. , 2019, , .                               |     | 0         |
| 31 | A Novel Bayesian Update Method for Parameter Reconstruction of Remaining Useful Life Prognostics. , 2019, , .               |     | 0         |
| 32 | A New Anomaly Detection Method Based on Multi-dimensional Condition Monitoring Data for Aircraft Engine. , 2019, , .        |     | 0         |
| 33 | Physics-informed Machine Learning for Parameter Estimation of DC-DC Converter. , 2022, , .                                  |     | 0         |
| 34 | A Multivariate Time Series Anomaly Detection Method Based on Generative Model. , 2022, , .                                  |     | 0         |