

Guofu Zhai

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

313

citations

9

h-index

14

g-index

97

ext. papers

447

ext. citations

2.2

avg, IF

3.61

L-index

#	Paper	IF	Citations
62	Online Condition Monitoring of Power MOSFET Gate Oxide Degradation Based on Miller Platform Voltage. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4776-4784	7.2	60
61	3-D modeling and analysis of meander-line-coil surface wave EMATs. <i>Mechatronics</i> , 2012 , 22, 653-660	3	35
60	An Improved Empirical Mode Decomposition Based on Adaptive Weighted Rational Quartic Spline for Rolling Bearing Fault Diagnosis. <i>IEEE Access</i> , 2020 , 8, 123813-123827	3.5	17
59	Minimizing influence of multi-modes and dispersion of electromagnetic ultrasonic lamb waves. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 2725-33	3.2	12
58	Analysis of multiple wavelengths of Lamb waves generated by meander-line coil EMATs. <i>Ultrasonics</i> , 2014 , 54, 632-6	3.5	11
57	Investigation on Arc Dwell and Restriking Characteristics in DC High-Power Relay. <i>IEEE Transactions on Plasma Science</i> , 2017 , 45, 1032-1042	1.3	9
56	Numerical and experimental evaluation of the receiving performance of meander-line coil EMATs. <i>Nondestructive Testing and Evaluation</i> , 2014 , 29, 269-282	2	9
55	Study on Arc Behaviors at Opening a 270V Resistive Circuit by Bridge-Type Contacts under Magnetic Field. <i>IEICE Transactions on Electronics</i> , 2013 , E96.C, 1124-1131	0.4	9
54	An Adaptive Optimized TVF-EMD Based on a Sparsity-Impact Measure Index for Bearing Incipient Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-11	5.2	9
53	Evaporation Erosion of Contacts Under Static Arc by Gas Dynamics and Molten Pool Simulation. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 4149-4160	1.3	8
52	A remaining useful life prediction method based on condition monitoring for LED driver 2012 ,		8
51	Modeling of Lorentz forces and radiated wave fields for bulk wave electromagnetic acoustic transducers. <i>Journal of Applied Physics</i> , 2013 , 114, 054901	2.5	7
50	Influence of coil parameters on transduction performance of unidirectional EMATs for Rayleigh wave 2013 ,		6
49	Experimental study on arc behaviors of a bridge-type contact when opening a resistive load in the range of from 280VDC to 730 VDC 2014 ,		6
48	Analog circuits fault diagnosis by GA-RBF neural network and virtual instruments 2012 ,		6
47	A Joint Distribution-Based Testability Metric Estimation Model for Unreliable Tests. <i>IEEE Access</i> , 2018 , 6, 42566-42577	3.5	6
46	Multi-Objective Optimization of Contactor Characteristics Based on RBF Neural Networks and Hybrid Method. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	5

45	Rail flaw detection system based on electromagnetic acoustic technique 2010 ,		5
44	Thermal Analysis of Sealed Electromagnetic Relays Using 3-D Finite Element Method 2007 ,		5
43	Experimental Study on Arcing Process and Contact Erosion under Transverse Magnetic Field 2009 ,		4
42	Investigation of the μ level adhesion force characteristics of gold-coated materials in air 2017 , 93, 1008-1023		3
41	Research on storage degradation testing and life prediction based on ARMA and wavelet transform model for aerospace electromagnetic relay 2014 ,		3
40	Research on Dynamic Characteristics Optimization via Analytical Modeling for Typical Rotational Electromagnetic System. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	3
39	Analysis of wavelength deviation of guided waves with electromagnetic acoustic transducers. <i>Journal of Applied Physics</i> , 2012 , 112, 084913	2.5	3
38	Research on Accelerated Storage Degradation Testing for Aerospace Electromagnetic Relay 2012 ,		3
37	Study on the Retrograde Motion of Arc under Transverse Magnetic Field. <i>IEICE Transactions on Electronics</i> , 2010 , E93-C, 1431-1436	0.4	3
36	Degradation model and maintenance strategy of the electrolytic capacitors for electronics applications 2011 ,		3
35	Characteristic research and analysis of EMAT's transduction efficiency for surface detection of aluminum plate 2009 ,		3
34	The Discrimination of Contact Failure Mechanisms by Analyzing the Variations of Time Parameters for Relays. <i>IEICE Transactions on Electronics</i> , 2010 , E93-C, 1437-1442	0.4	3
33	Research on Dynamic Characteristics Testing and Analyzing System of Electromagnetic Relay. <i>IEICE Transactions on Electronics</i> , 2009 , E92-C, 1028-1033	0.4	3
32	Study on Optimization of Electromagnetic Relay's Reaction Torque Characteristics Based on Adjusted Parameters. <i>IEICE Transactions on Electronics</i> , 2009 , E92-C, 1023-1027	0.4	3
31	Design Method of Multiwavelength EMATs Based on Spatial Domain Harmonic Control. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 2259-2270	3.2	3
30	Robust Design Optimization of Electromagnetic Actuators for Renewable Energy Systems Considering the Manufacturing Cost. <i>Energies</i> , 2019 , 12, 4353	3.1	3
29	Quality Analysis and Consistency Design of Electromagnetic Device Based on Approximation Model. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2015 , 5, 99-107	1.7	2
28	The failure mechanism of electromagnetic relay in accelerated storage degradation testing 2017 ,		2

27	Simulation of Arc Dwelling Behavior During Bridge-Type Contacts Opening Process for High-Power Relay. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018 , 8, 975-981	1.7	2
26	A new robust tolerance design method for electromechanical device based on variable contribution rate coefficients. <i>Journal of Engineering Design</i> , 2017 , 28, 532-548	1.8	2
25	Comparisons on Arc Behavior and Contact Performance between Cu and Cu-Mo Alloys in a Bridge-Type Contact System. <i>IEICE Transactions on Electronics</i> , 2015 , E98.C, 904-911	0.4	2
24	Reliability research on power MOSFET using coupled electrical-thermal-mechanical analysis 2012 ,		2
23	Vibration and thermal buckling analyses of multi-span composite lattice sandwich beams. <i>Archive of Applied Mechanics</i> , 2021 , 91, 2601-2616	2.2	2
22	Simulation of Metal Droplet Sputtering and Molten Pool on Copper Contact under Electric Arc. <i>IEICE Transactions on Electronics</i> , 2018 , E101.C, 691-698	0.4	2
21	Reliability Assessment of LED Driver Considering Parameter Variations in Strength and Stress Model 2018 ,		2
20	The Design of Contactors Based on the Niching Multiobjective Particle Swarm Optimization. <i>Complexity</i> , 2018 , 2018, 1-10	1.6	2
19	Electrical Lifespan Prediction of HVDC Relay Based on the Accumulated Arc Erosion Mass. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018 , 8, 356-363	1.7	2
18	Simulation and diagnosis of degradation failure on electromagnetic relay 2017 ,		1
17	A portable inspection instrument based on electromagnetic acoustic transducers 2013 ,		1
16	Study on feasibility of storage accelerated testing based on parameter degradation for aerospace relays 2012 ,		1
15	Thermal Stability Analysis of Disconnect Switch Based on FEM 2010 ,		1
14	Research on influence of Lorentz force mechanism on EMAT's transduction efficiency in steel plate 2010 ,		1
13	A method for optimizing excitation of electromagnetic ultrasonic Lamb wave 2010 ,		1
12	A New Theoretical Model to Study the Closing Bounce Characteristics of the Electromagnetic Relay Under Capacitive Loads. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2020 , 10, 1358-1366	1.7	1
11	Study on thermal characteristics of RF coaxial switch based on finite element method 2016 ,		1
10	A failure mechanism consistency test method for accelerated degradation test. <i>Quality and Reliability Engineering International</i> , 2021 , 37, 464-483	2.6	1

9	Soft Fault Diagnosis Using URV-LDA Transformed Feature Dictionary. <i>IEEE Access</i> , 2021 , 9, 16019-16029	3.5	1
8	Life-Cycle Dynamic Robust Design Optimization for Batch Production of Permanent Magnet Actuator. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 9885-9896	8.9	1
7	Quality and robustness optimization design method for electromagnetic devices consider manufacturing uncertainties and working point migration of permanent magnets. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	0
6	Study on the Influence of Creep on RF Coaxial Switch in Accelerated Thermal Cycle Test. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018 , 8, 966-974	1.7	0
5	Effect of Axial and Transverse Magnetic Fields on the Arc Duration and Material Transfer. <i>IEICE Transactions on Electronics</i> , 2012 , E95-C, 395-400	0.4	0
4	A Generalized Parallel Transmission Line Iteration for Finite Element Analysis of Permanent Magnet Axisymmetrical Actuator. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-10	2	0
3	Design of a high-performance 12T SRAM cell for single event upset tolerance. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	0
2	Failure Process and Dynamic Reliability Estimation of Sealed Relay. <i>IEICE Transactions on Electronics</i> , 2011 , E94-C, 1375-1380	0.4	
1	Reliability Analysis Based on a Bivariate Degradation Model Considering Random Initial State and Its Correlation With Degradation Rate. <i>IEEE Transactions on Reliability</i> , 2022 , 1-12	4.6	