

# Ziyan Ren

## List of Publications by Year in descending order

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34  
papers

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35  
all docs

35  
docs citations

35  
times ranked

265  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of Stress and Temperature Dependent Vector Magnetic Properties of Electrical Steel Sheet. IEEE Transactions on Industrial Electronics, 2022, 69, 980-990.	7.9	14
2	Managing Uncertainties of Permanent Magnet Synchronous Machine by Adaptive Kriging Assisted Weight Index Monte Carlo Simulation Method. IEEE Transactions on Energy Conversion, 2020, 35, 2162-2169.	5.2	9
3	Robust Electromagnetic Design of Double-Canned IM for Submergible Rim Driven Thrusters to Reduce Losses and Vibration. IEEE Transactions on Energy Conversion, 2020, 35, 2045-2055.	5.2	8
4	Modeling of Anisotropic Magnetostriction Under DC Bias Based on an Optimized BP Neural Network. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	24
5	Implementation of Vector Hysteresis Model Utilizing Enhanced Neural Network Based on Collaborative Algorithm. IEEE Access, 2020, 8, 34162-34169.	4.2	5
6	Magnetostrictive Characteristics of the Grain-Oriented Electrical Steel in an Epstein Frame Magnetized with a DC Biased Magnetic Field. Journal of Electrical Engineering and Technology, 2020, 15, 749-755.	2.0	3
7	Analysis of Rotational Hysteresis Property in a Transformer Core Based on an Inverse Jiles-Atherton Hysteresis Model Coupled with Finite Element Method. , 2020, , .		2
8	Simulation Analysis and Experiment Validation of Vibration and Noise of Oil-immersed Transformer. , 2019, , .		4
9	Comprehensive Improvement of Temperature-Dependent Jiles-Atherton Model Utilizing Variable Model Parameters. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	13
10	A New Reliability Analysis Method Combining Adaptive Kriging With Weight Index Monte Carlo Simulation. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	7
11	A Novel Subregion-Based Multidimensional Optimization of Electromagnetic Devices Assisted by Kriging Surrogate Model. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	6
12	Research on Preconditioned Conjugate Gradient Method Based on EBE-FEM and the Application in Electromagnetic Field Analysis. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	5
13	A Novel Reliability-Based Optimal Design of Electromagnetic Devices Based on Adaptive Dynamic Taylor Kriging. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	10
14	A novel subregion-based multi-dimensional optimization of electromagnetic devices assisted by kriging surrogate model. , 2016, , .		1
15	GPU acceleration of 3D eddy current losses calculation in large power transformer. , 2016, , .		0
16	Investigation of reliability analysis algorithms for effective reliability-based optimal design of electromagnetic devices. IET Science, Measurement and Technology, 2016, 10, 44-49.	1.6	9
17	A novel reliability-based optimal design of electromagnetic devices based on adaptive dynamic Taylor Kriging. , 2016, , .		0
18	A Possibility-Based Robust Optimal Design Algorithm in Preliminary Design Stage of Electromagnetic Devices. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	22

#	ARTICLE	IF	CITATIONS
19	A New Reliability Analysis Algorithm With Insufficient Uncertainty Data for Optimal Robust Design of Electromagnetic Devices. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	3
20	Comparative Study on Kriging Surrogate Models for Metaheuristic Optimization of Multidimensional Electromagnetic Problems. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	5
21	A Numerically Efficient Multi-Objective Optimization Algorithm: Combination of Dynamic Taylor Kriging and Differential Evolution. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	5
22	Anisotropic Magnetostriction of Nonoriented Silicon Steel Sheet and Its Frequency Dependence. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	7
23	A Novel Subdivision-Based Optimal Design Algorithm for Multidimensional Electromagnetic Problems. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	1
24	Vector Jiles-Atherton hysteresis model and its application to magnetizing analysis for a four-pole isotropic bonded NdFeB permanent magnet. , 2014, , .		0
25	Numerically Efficient Algorithm for Reliability-Based Robust Optimal Design of TEAM Problem 22. IEEE Transactions on Magnetics, 2014, 50, 661-664.	2.1	8
26	Optimal Design of Powder-Aligning and Magnetizing Fixtures for an Anisotropic-Bonded NdFeB Permanent Magnet. IEEE Transactions on Magnetics, 2014, 50, 697-700.	2.1	10
27	New Reliability-Based Robust Design Optimization Algorithms for Electromagnetic Devices Utilizing Worst Case Scenario Approximation. IEEE Transactions on Magnetics, 2013, 49, 2137-2140.	2.1	24
28	An Improved Robust Optimization Algorithm: Second-Order Sensitivity Assisted Worst Case Optimization. IEEE Transactions on Magnetics, 2013, 49, 2109-2112.	2.1	2
29	Robust Global Optimization of Electromagnetic Devices With Uncertain Design Parameters: Comparison of the Worst Case Optimization Methods and Multiobjective Optimization Approach Using Gradient Index. IEEE Transactions on Magnetics, 2013, 49, 851-859.	2.1	44
30	Hysteresis modeling of anisotropic and isotropic bonded NdFeB PM utilizing the jiles-atherton hysteresis model. , 2013, , .		0
31	Multi-objective worst-case scenario robust optimal design of switched reluctance motor incorporated with FEM and Kriging. , 2013, , .		4
32	A New Sensitivity-Based Reliability Calculation Algorithm in the Optimal Design of Electromagnetic Devices. Journal of Electrical Engineering and Technology, 2013, 8, 331-338.	2.0	7
33	Reliability Evaluation of the Electromagnetic Device Based on the Second Order Sensitivity Analysis. , 2012, , .		1
34	Optimal Design of a Thomson-Coil Actuator Utilizing a Mixed-Integer-Discrete-Continuous Variables Global Optimization Algorithm. IEEE Transactions on Magnetics, 2011, 47, 4163-4166.	2.1	22