

Baodong Bai

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Novel Direct Torque Control Based on Space Vector Modulation With Adaptive Stator Flux Observer for Induction Motors. IEEE Transactions on Magnetics, 2010, 46, 3133-3136.	2.1	119
2	Suppression for Discharging Bearing Current in Variable-Frequency Motors Based on Electromagnetic Shielding Slot Wedge. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	31
3	Multiobjective Optimization Based on Response Surface Model and Its Application to Engineering Shape Design. IEEE Transactions on Magnetics, 2008, 44, 1006-1009.	2.1	19
4	A Novel Optimal Design Method of Passive Shimming for Permanent MRI Magnet. IEEE Transactions on Magnetics, 2008, 44, 1058-1061.	2.1	19
5	Research on Calculating Eddy-Current Losses in Power Transformer Tank Walls Using Finite-Element Method Combined With Analytical Method. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	19
6	Study of Insulation Material Properties Subjected to Nonlinear AC-DC Composite Electric Field for Converter Transformer. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	19
7	Study of Analysis and Experiment for Ability to Withstand DC Bias in Power Transformers. IEEE Transactions on Magnetics, 2018, 54, 1-6.	2.1	17
8	Study of Magnetostriction Influence of Electrical Sheet Steel Under Different DC Biases. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	16
9	DC Bias Treatment of Hybrid Type Transformer Based on Magnetic Flux Modulation Mechanism. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	13
10	Magnetostriction of Silicon Steel Sheets Under Different Magnetization Conditions. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	12
11	Finite Element Analysis of Permanent Magnet Assembly With High Field Strength Using Preisach Theory. IEEE Transactions on Magnetics, 2007, 43, 1393-1396.	2.1	8
12	3-D FEM Analysis in Electromagnetic System Considering Vector Hysteresis and Anisotropy. IEEE Transactions on Magnetics, 2008, 44, 890-893.	2.1	6
13	Second Order Sliding Mode Control of Flux and Torque for Induction Motor. , 2010, , .		6
14	Measurement research on magnetic properties of electrical sheet steel under different temperature, harmonic and dc bias. AIP Advances, 2017, 7, 056682.	1.3	6
15	Calculation of stray losses in power transformer structural parts using finite element method combined with analytical method. , 2015, , .		5
16	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
17	Direct-Current and Alternate-Decay-Current Hybrid Integrative Power Supplies Design Applied to DC Bias Treatment. IEEE Transactions on Power Electronics, 2018, 33, 10251-10264.	7.9	4
18	The Vibroacoustic Characteristics Analysis of Transformer Core Faults Based on Multi-Physical Field Coupling. Symmetry, 2022, 14, 544.	2.2	4

#	ARTICLE	IF	CITATIONS
19	New Development of Monohedral Magnet for MRI Using the Combination of Genetic Algorithm and FEM-NESM. IEEE Transactions on Magnetics, 2008, 44, 1266-1269.	2.1	2
20	Modeling and simulation of omni-directional lower limbs rehabilitation training robot. , 2012, , .		2
21	A Planar Layered Two-Phase System Model of Frequency Response of Insulation System for Estimating Moisture in IOCT. IEEE Transactions on Magnetics, 2018, , 1-4.	2.1	2
22	Vector Control of Permanent Magnet Synchronous Motor by Using Single Current Sensor. , 2019, , .		2
23	FDTD-based temperature distribution computation of microwave hyperthermia for breast cancer. , 2010, , .		1
24	Model Predictive Control of a Modular Multilevel Converter with an improved capacitor balancing method. , 2018, , .		1
25	Design and analysis of a high-performance dual-rotor PM synchronous reluctance machine with toroidal windings. International Journal of Applied Electromagnetics and Mechanics, 2019, 59, 855-864.	0.6	1
26	A new method to solve the 3D transient electromagnetic field-circuit-torque coupled problem. , 2007, , .		1
27	Analysis of magnetic field of MRI device taking account of anisotropy and hysteresis. , 2007, , .		1
28	A new method of organizing the result data of 3D electromagnetic field analysis based on XML technology. , 2005, , .		0
29	Finite Element Analysis of Permanent Magnet Assembly with High Field Strength Using Preisach Theory. , 0, , .		0
30	A neural-network-based robust control strategy applying to omnidirectional lower limbs rehabilitation robot during centre-of-gravity shift. , 2009, , .		0
31	A robust control strategy applying to omnidirectional lower limbs rehabilitation robot during centre-of-gravity shift. , 2009, , .		0
32	Assembly Process's Simulation of High-Field Permanent-Magnet Flux Source Based on Vector Magnetic Hysteresis Model. , 2012, , .		0
33	Analysis of magnetic field and loss of the large disintegration transformer. , 2013, , .		0
34	Analysis of magnetic field and Loss of the large compress yoke transformer. , 2013, , .		0
35	Research on preconditioned conjugate gradient method based on EBE-FEM and the application in electromagnetic field analysis. , 2016, , .		0
36	GPU acceleration of 3D eddy current losses calculation in large power transformer. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Study on the protection and energy transmission modes of one phase short circuit to ground in inverters. , 2016, , .		0
38	A novel approach to design of uUniplanar gradient coil for fully open MRI system. , 2007, , .		0
39	Study on the Protection and Energy Transmission Modes of One Phase Short Circuit to Ground in Inverters. , 2019, , .		0
40	Research on equivalent circuit of bearing current discharge based on carbon nanotubes. , 2020, , .		0
41	Measurement Analysis and Improvement of Vibroacoustic Characteristics of Amorphous Alloy Transformer. Energies, 2022, 15, 949.	3.1	0