Yanhui Gao

List of Publications by Year
in descending order

50 papers	466 citations	687363 13 h-index	752698 20 g-index
51 all docs	51 docs citations	51 times ranked	352 citing authors

#	Article	IF	Citations
1	Modeling of Magnetic Anisotropy Due to Compression Molding of Soft Magnetic Composite for Inductance Calculation. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	0
2	Proposal of Core Structures for Iron Loss and Noise Reduction of Three-Phase Reactor With Anisotropic Iron Core. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	3
3	Estimation of DC Hysteresis Property Using Nonlinear Eddy Current Analysis Considering Hysteretic Property. , 2021, , .		5
4	Modeling of Anomalous Eddy Current Losses Due to Movement of Domain Walls in Particles of a Soft Magnetic Composite. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	4
5	Flux and Loss Distribution in Iron Cores With Hybrid T-Joint. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	5
6	Numerical modelling of magnetic characteristics of ferrite core taking account of both eddy current and displacement current. Heliyon, 2019, 5, e02229.	3.2	5
7	Simple Numerical Calculation Method of Rotational Iron Loss in Silicon Steel Sheets. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	6
8	Design of a Three-Phase Reactor Composed of Grain-Oriented Steel Plates for Iron Loss Reduction. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	2
9	A novel concept of fault current limiter based on saturable core in high voltage DC transmission system. AIP Advances, 2018, 8, .	1.3	17
10	Iron Loss Reduction of Three-phase Reactor Considering Anisotropic Magnetic Characteristics. , 2018, , .		0
11	Proposal of Maxwell Stress Tensor for Local Force Calculation in Magnetic Body. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	16
12	Numerical Modeling of Iron Loss Considering Laminated Structure and Excess Loss. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	3
13	Modeling of Magnetic Characteristics of Soft Magnetic Composite Using Magnetic Field Analysis. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	12
14	Topology and Performance Optimization of a Novel Hybrid Material-Based Direct Current Fault Current Limiter. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	14
15	Performance investigation on DCSFCL considering different magnetic materials. AIP Advances, 2018, 8, .	1.3	9
16	Modeling of Leakage Magnetic Field of Electric Machines Using Blocks With Magnetizations for Design of Magnetically Shielded Room. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	2
17	A Novel Hybrid Saturated Core Fault Current Limiter Topology Considering Permanent Magnet Stability and Performance. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	26
18	A Coupled Method for Evaluating Eddy Current Loss of NdFeB Permanent Magnets in a Saturated Core Fault Current Limiter. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	9

#	Article	IF	Citations
19	Fast Nonlinear Magnetic Field Analysis of Inverter-Driven Machines by Applying POD on Linearized Coefficient Matrices. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	2
20	Performance and Optimization Study of a Novel Compact Permanent-Magnet-Biased Fault Current Limiter. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	16
21	A Novel Three-Phase Compact Saturated-Core Fault Current Limiter. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	5
22	Development and Analysis of Bridge-Type Saturated-Core Fault Current Limiter. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	5
23	Micromagnetics simulation of ferromagnetic materials using large cells. International Journal of Applied Electromagnetics and Mechanics, 2017, 55, 15-21.	0.6	0
24	Effect of magnetic-valve distribution on reactance of magnetic controlled reactor. , 2016, , .		1
25	A novel topology of hybrid saturated core fault current limiter considering permanent magnets stability performance. , 2016, , .		0
26	Loss and noise reduction of saturable magnetically controlled reactor by improving structure of magnetic valves. , 2016, , .		3
27	Simple L and T shaped butt joints composed of anisotropic and isotropic block cores in three-phase reactor. , 2016, , .		0
28	Comparison of hysteresis modeling methods using play model and free energy model. , 2016, , .		0
29	Numerical Modeling of Excess Loss in SiFe Sheet Considering Pinning Effect. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	0
30	Investigation on numerical modeling of excess loss in SiFe sheet considering pinning effect. , 2016, , .		0
31	Transient characteristics analysis of a 380V/30kVar superconducting controlled reactor. , 2016, , .		1
32	Modeling of leakage magnetic field of electric machines using blocks with magnetizations for design of magnetically shielded room. , 2016, , .		0
33	Effects of Stress and Magnetostriction on Loss and Vibration Characteristics of Motor. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	22
34	Comparison of Time Integration Methods in Magnetomechanical Problems. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	4
35	Coupled Magneto-Mechanical Analysis in Isotropic Materials Under Multiaxial Stress. IEEE Transactions on Magnetics, 2014, 50, 285-288.	2.1	8
36	Loss Reduction of Reactor With Grain-Oriented Silicon Steel Plates. IEEE Transactions on Magnetics, 2013, 49, 1973-1976.	2.1	13

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37	Evaluation of Stray Load Losses in Cores and Secondary Conductors of Induction Motor Using Magnetic Field Analysis. IEEE Transactions on Magnetics, 2013, 49, 1965-1968.	2.1	9
38	Homogenization Technique of Laminated Core Taking Account of Eddy Currents Under Rotational Flux Without Edge Effect. IEEE Transactions on Magnetics, 2013, 49, 1969-1972.	2.1	8
39	Coupled 2-D and 3-D Eddy Current Analyses for Evaluating Eddy Current Loss of a Permanent Magnet in Surface PM Motors. IEEE Transactions on Magnetics, 2012, 48, 3100-3103.	2.1	31
40	Investigation on Simple Numeric Modeling of Anomalous Eddy Current Loss in Steel Plate Using Modified Conductivity. IEEE Transactions on Magnetics, 2012, 48, 635-638.	2.1	20
41	Magnetic Field Analysis With Nonconforming Voxel Modeling Using the Nested Geometric Multigrid Method. IEEE Transactions on Magnetics, 2012, 48, 595-598.	2.1	7
42	The Effect of Laminated Structure on Coupled Magnetic Field and Mechanical Analyses of Iron Core and Its Homogenization Technique. IEEE Transactions on Magnetics, 2011, 47, 1358-1361.	2.1	13
43	Noise Reduction of a Three-Phase Reactor by Optimization of Gaps Between Cores Considering Electromagnetism and Magnetostriction. IEEE Transactions on Magnetics, 2011, 47, 2772-2775.	2.1	40
44	Design of a Reactor Driven by Inverter Power Supply to Reduce the Noise Considering Electromagnetism and Magnetostriction. IEEE Transactions on Magnetics, 2010, 46, 2179-2182.	2.1	43
45	Reduction of artifact of metallic implant in magnetic resonance imaging by combining paramagnetic and diamagnetic materials. Journal of Applied Physics, 2010, 107, 09B323.	2.5	4
46	The effect of laminated structure on coupled magnetic field and mechanical analyses of iron core and its homogenization technique. , 2010, , .		0
47	Effectiveness of nonconforming mesh in magnetic field analysis with voxel modelling. , 2010, , .		0
48	Loss Calculation of Reactor Connected to Inverter Power Supply Taking Account of Eddy Currents in Laminated Steel Core. IEEE Transactions on Magnetics, 2009, 45, 1044-1047.	2.1	31
49	Vibration Analysis of a Reactor Driven by an Inverter Power Supply Considering Electromagnetism and Magnetostriction. IEEE Transactions on Magnetics, 2009, 45, 4789-4792.	2.1	35
50	Reduction of Artifact of Metallic Implant in Magnetic Resonance Imaging by Coating of Diamagnetic Material. IEEE Transactions on Magnetics, 2009, 45, 4837-4840.	2.1	7