Philip I Anderson

List of Publications by Year
in descending order

30	536	623734	642732
papers	citations	14 h-index	23 g-index

30	30	30	372
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessment of the Stress Sensitivity of Magnetostriction in Grain-Oriented Silicon Steel. IEEE Transactions on Magnetics, 2007, 43, 3467-3476.	2.1	66
2	Eddy Current Loss Estimation of Edge Burr-Affected Magnetic Laminations Based on Equivalent Electrical Networkâ€"Part I: Fundamental Concepts and FEM Modeling. IEEE Transactions on Power Delivery, 2014, 29, 642-650.	4.3	48
3	Magnetostriction Anisotropy and Rotational Magnetostriction of a Nonoriented Electrical Steel. IEEE Transactions on Magnetics, 2010, 46, 302-305.	2.1	47
4	Localized Surface Vibration and Acoustic Noise Emitted From Laboratory-Scale Transformer Cores Assembled From Grain-Oriented Electrical Steel. IEEE Transactions on Magnetics, 2016, 52, 1-15.	2.1	39
5	Effect of Magnetostriction Anisotropy in Nonoriented Electrical Steels on Deformation of Induction Motor Stator Cores. IEEE Transactions on Magnetics, 2009, 45, 4744-4747.	2.1	34
6	Measurement and Modeling of 2-D Magnetostriction of Nonoriented Electrical Steel. IEEE Transactions on Magnetics, 2012, 48, 711-714.	2.1	33
7	Influence of Cutting Techniques on Magnetostriction Under Stress of Grain Oriented Electrical Steel. IEEE Transactions on Magnetics, 2012, 48, 1417-1420.	2.1	31
8	Measurement of the stress sensitivity of magnetostriction in electrical steels under distorted waveform conditions. Journal of Magnetism and Magnetic Materials, 2008, 320, e583-e588.	2.3	24
9	Study of the Effects of Surface Coating on Magnetic Barkhausen Noise in Grain-Oriented Electrical Steel. IEEE Transactions on Magnetics, 2012, 48, 1393-1396.	2.1	24
10	Effect of Artificial Burrs on Local Power Loss in a Three-Phase Transformer Core. IEEE Transactions on Magnetics, 2012, 48, 1653-1656.	2.1	24
11	Modeling 2-D Magnetostriction in Nonoriented Electrical Steels Using a Simple Magnetic Domain Model. IEEE Transactions on Magnetics, 2015, 51, 1-7.	2.1	24
12	Eddy Current Loss Estimation of Edge Burr-Affected Magnetic Laminations Based on Equivalent Electrical Networkâ€"Part II: Analytical Modeling and Experimental Results. IEEE Transactions on Power Delivery, 2014, 29, 651-659.	4.3	23
13	Approximation and Prediction of AC Magnetization Curves for Power Transformer Core Analysis. IEEE Transactions on Magnetics, 2015, 51, 1-8.	2.1	18
14	Interlaminar Insulation Faults Detection and Quality Assessment of Magnetic Cores Using Flux Injection Probe. IEEE Transactions on Power Delivery, 2015, 30, 2205-2214.	4.3	16
15	A universal DC characterisation system for hard and soft magnetic materials. Journal of Magnetism and Magnetic Materials, 2008, 320, e589-e593.	2.3	13
16	Magnetostriction in grainâ€oriented electrical steels under AC magnetisation at angles to the rolling direction. IET Electric Power Applications, 2016, 10, 932-938.	1.8	12
17	Application of an advanced eddyâ€current loss modelling to magnetic properties of electrical steel laminations in a wide range of measurements. IET Science, Measurement and Technology, 2015, 9, 807-816.	1.6	11
18	Experimental study on interâ€laminar shortâ€circuit faults at random positions in laminated magnetic cores. IET Electric Power Applications, 2016, 10, 604-613.	1.8	8

#	Article	IF	Citations
19	Prediction of power loss and permeability with the use of an artificial neural network in wound toroidal cores. Journal of Magnetism and Magnetic Materials, 2008, 320, e1001-e1005.	2.3	6
20	Measured and Computed Effect of Holes on Low-Frequency Magnetic Shielding Performance of Electrical Steel Sheet. IEEE Transactions on Magnetics, 2006, 42, 3527-3529.	2.1	5
21	Mechanical Resonance in Nonoriented Electrical Steels Induced by Magnetostriction Under PWM Voltage Excitation. IEEE Transactions on Magnetics, 2008, 44, 4062-4065.	2.1	5
22	Equivalence of Measurements on Soft Magnetic Materials in the U.K. and Measurements for Operational Conditions. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2275-2279.	4.7	5
23	Comparison between measured and computed magnetic flux density distribution of simulated transformer core joints assembled from grain-oriented and non-oriented electrical steel. AIP Advances, 2018, 8, .	1.3	5
24	Measurement of resistivity of soft magnetic laminations at elevated temperatures. Journal of Magnetism and Magnetic Materials, 2006, 304, e546-e548.	2.3	4
25	An overview of the recent developments of the inter-laminar short circuit fault detection methods in magnetic cores. , 2015, , .		4
26	CrAlN coating to enhance the power loss and magnetostriction in grain oriented electrical steel. AIP Advances, 2016, 6, 055924.	1.3	3
27	Apparent permeability of electrical steel under PWM magnetisation. Journal of Magnetism and Magnetic Materials, 2006, 304, e543-e545.	2.3	2
28	Equivalence of measurements on soft magnetic materials in the UK and measurements for operational conditions. , 2010, , .		1
29	Computer-controlled electromagnetic control and image capture system for alignment of magnetic graphene nanofillers in epoxy composites. International Journal of Applied Electromagnetics and Mechanics, 2019, 61, S23-S29.	0.6	1
30	A novel way of measuring DC magnetic shielding efficiency of grain oriented and non oriented electrical steel. International Journal of Applied Electromagnetics and Mechanics, 2007, 25, 219-224.	0.6	0