

Amr A Adly

List of Publications by Year in descending order

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49
papers

644
citations

567281

15
h-index

610901

24
g-index

49
all docs

49
docs citations

49
times ranked

434
citing authors

#	ARTICLE	IF	CITATIONS
1	Field Computation in Media Exhibiting Hysteresis Using Hopfield Neural Networks. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	2
2	An Efficient Vector Hysteresis Model for Unidirectional Magneto-Elastic Interactions. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	4
3	Utilizing four-node tetrahedra-shaped Hopfield neural network configurations in the local magnetization assessment of 3d objects exhibiting hysteresis. AIP Advances, 2021, 11, 025018.	1.3	1
4	The impact of demagnetization on the feasibility of permanent magnet synchronous motors in industry applications. Journal of Advanced Research, 2019, 17, 103-108.	9.5	24
5	Characteristics and Analysis of an Eddy Current Shock Absorber Damper Using Finite Element Analysis. Actuators, 2019, 8, 77.	2.3	7
6	Construction of a magnetostrictive hysteresis operator using a tripod-like primitive hopfield neural network. AIP Advances, 2018, 8, 056802.	1.3	1
7	A wave shaping approach of ferrite inductors exhibiting hysteresis using orthogonal field bias. AIP Advances, 2018, 8, 056643.	1.3	0
8	A specifications-oriented initial design methodology for power transformers. Energy Systems, 2017, 8, 285-296.	3.0	0
9	Steady state analysis of a human motion electromechanical energy harvester. , 2016, , .		1
10	Performance analysis of coil-gun electromagnetic launcher using a finite element coupled model. , 2016, , .		10
11	Utilizing electromechanical energy harvesting in vehicle suspension vibration damping. , 2016, , .		2
12	Simulation of magneto-elastic materials using a novel vector hysteresis model. , 2016, , .		2
13	Magnetic Actuator Control of Oil Whip Instability in Bearings. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	15
14	A performance-oriented power transformer design methodology using multi-objective evolutionary optimization. Journal of Advanced Research, 2015, 6, 417-423.	9.5	29
15	Utilizing neural networks in magnetic media modeling and field computation: A review. Journal of Advanced Research, 2014, 5, 615-627.	9.5	17
16	Three-Dimensional Identification of Crack Location in Conducting Slabs Using Wavelets. IEEE Transactions on Magnetics, 2013, 49, 3472-3475.	2.1	1
17	Efficient modeling of vector hysteresis using a novel Hopfield neural network implementation of Stoner-Wohlfarth-like operators. Journal of Advanced Research, 2013, 4, 403-409.	9.5	18
18	Vector magnetic hysteresis modeling of stress annealed galphenol. Journal of Applied Physics, 2013, 113, 17A931.	2.5	5

#	ARTICLE	IF	CITATIONS
19	Design and construction of a low cost single-phase induction motor test bench. , 2013, , .		0
20	A wavelet approach for the identification of surface cracks using current injection perturbation. Journal of Applied Physics, 2012, 111, 07E316.	2.5	1
21	Energy Harvesting Tests With Galfenol at Variable Magneto-Mechanical Conditions. IEEE Transactions on Magnetics, 2012, 48, 3096-3099.	2.1	30
22	Vector hysteresis modeling using octal clusters of coupled step functions. Journal of Applied Physics, 2011, 109, 07D342.	2.5	6
23	An evolutionary computation approach for time-harmonic field problems involving nonlinear magnetic media. Journal of Applied Physics, 2011, 109, 07D321.	2.5	1
24	Electromagnetic forces densities for 3 phase busbar parallel connected to rectifier load. , 2011, , .		0
25	Experimental analysis of vibrations damping due to magnetostrictive based energy harvesting. Journal of Applied Physics, 2011, 109, .	2.5	34
26	Deducing Local Field Values From Large Sense Coil Fluxmeter Measurements Using Semi-Orthogonal Compactly Supported Spline Wavelets. IEEE Transactions on Magnetics, 2010, 46, 1869-1872.	2.1	3
27	Vector Preisach Modeling of Magnetic Shape Memory Materials Oriented to Power Harvesting Applications. IEEE Transactions on Magnetics, 2010, 46, 1848-1851.	2.1	19
28	Experimental tests of a magnetostrictive energy harvesting device toward its modeling. Journal of Applied Physics, 2010, 107, 09A935.	2.5	42
29	Deducing local extremely low frequency field values from large sense coil fluxmeter measurements. Journal of Applied Physics, 2009, 105, 07E721.	2.5	1
30	Utilizing particle swarm Optimization in the field computation of nonlinear media subject to mechanical stress. Journal of Applied Physics, 2009, 105, 07D507.	2.5	6
31	Incorporating core hysteresis properties in three-dimensional computations of transformer inrush current forces. Journal of Applied Physics, 2009, 105, 07A329.	2.5	3
32	Efficient Modeling of Magnetostrictive Media Using Fuzzy Inference Systems. IEEE Transactions on Magnetics, 2008, 44, 2219-2226.	2.1	2
33	Computation of busbars local electromagnetic force densities connected to 3-pulse rectifier load over a complete cycle. , 2008, , .		2
34	Speed-Range-Based Optimization of Nonlinear Electromagnetic Braking Systems. IEEE Transactions on Magnetics, 2007, 43, 2606-2608.	2.1	19
35	Efficient Implementation of Anisotropic Vector Preisach-Type Models Using Coupled Step Functions. IEEE Transactions on Magnetics, 2007, 43, 2962-2964.	2.1	9
36	Trends, features and recent research efforts in the field of hybrid electric vehicles. International Journal of Alternative Propulsion, 2006, 1, 1.	0.9	6

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37	Using The Particle Swarm Evolutionary Approach in Shape Optimization and Field Analysis of Devices Involving Non-linear Magnetic Media. , 2006, , .		2
38	Identification of vector Preisach models from arbitrary measured data using neural networks. Journal of Applied Physics, 2000, 87, 6821-6823.	2.5	14
39	Using neural networks in the identification of Preisach-type magnetostriction and field-temperature models. Journal of Applied Physics, 1999, 85, 5211-5213.	2.5	15
40	Solution of induction heating problems involving media with hysteresis. Journal of Applied Physics, 1996, 79, 4675.	2.5	5
41	Efficient Preisach demagnetization algorithm and its experimental testing. Journal of Applied Physics, 1994, 75, 5502-5504.	2.5	2
42	A new vector Preisach-type model of hysteresis. Journal of Applied Physics, 1993, 73, 5824-5826.	2.5	55
43	Experimental testing of point-charge model of magnetic force scanning tunneling microscopy. Journal of Applied Physics, 1993, 73, 5796-5798.	2.5	7
44	Microscopic investigations of overwritten data. Journal of Applied Physics, 1993, 73, 6001-6003.	2.5	11
45	Magnetization image reconstruction from magnetic force scanning tunneling microscopy images. Journal of Applied Physics, 1993, 73, 5799-5801.	2.5	23
46	Magnetic force scanning tunneling microscopy of high density recording. Journal of Applied Physics, 1993, 73, 6180-6182.	2.5	8
47	Magnetic field imaging by using magnetic force scanning tunneling microscopy. Applied Physics Letters, 1992, 60, 906-908.	3.3	16
48	Preisach modeling of magnetostrictive hysteresis. Journal of Applied Physics, 1991, 69, 5777-5779.	2.5	134
49	New Preisach-type models of hysteresis and their experimental testing. Journal of Applied Physics, 1990, 67, 5373-5375.	2.5	29