Amr A Adly

List of Publications by Year
in descending order

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49	644	567281 15	610901 24
papers	citations	h-index	g-index

49	49	49	434
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preisach modeling of magnetostrictive hysteresis. Journal of Applied Physics, 1991, 69, 5777-5779.	2.5	134
2	A new vector Preisachâ€type model of hysteresis. Journal of Applied Physics, 1993, 73, 5824-5826.	2.5	55
3	Experimental tests of a magnetostrictive energy harvesting device toward its modeling. Journal of Applied Physics, 2010, 107, 09A935.	2.5	42
4	Experimental analysis of vibrations damping due to magnetostrictive based energy harvesting. Journal of Applied Physics, 2011, 109, .	2.5	34
5	Energy Harvesting Tests With Galfenol at Variable Magneto-Mechanical Conditions. IEEE Transactions on Magnetics, 2012, 48, 3096-3099.	2.1	30
6	New Preisachâ€type models of hysteresis and their experimental testing. Journal of Applied Physics, 1990, 67, 5373-5375.	2.5	29
7	A performance-oriented power transformer design methodology using multi-objective evolutionary optimization. Journal of Advanced Research, 2015, 6, 417-423.	9.5	29
8	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
9	Magnetization image reconstruction from magnetic force scanning tunneling microscopy images. Journal of Applied Physics, 1993, 73, 5799-5801.	2.5	23
10	Speed-Range-Based Optimization of Nonlinear Electromagnetic Braking Systems. IEEE Transactions on Magnetics, 2007, 43, 2606-2608.	2.1	19
11	Vector Preisach Modeling of Magnetic Shape Memory Materials Oriented to Power Harvesting Applications. IEEE Transactions on Magnetics, 2010, 46, 1848-1851.	2.1	19
12	Efficient modeling of vector hysteresis using a novel Hopfield neural network implementation of Stonerâ€“Wohlfarth-like operators. Journal of Advanced Research, 2013, 4, 403-409.	9.5	18
13	Utilizing neural networks in magnetic media modeling and field computation: A review. Journal of Advanced Research, 2014, 5, 615-627.	9.5	17
14	Magnetic field imaging by using magnetic force scanning tunneling microscopy. Applied Physics Letters, 1992, 60, 906-908.	3.3	16
15	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
16	Magnetic Actuator Control of Oil Whip Instability in Bearings. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	15
17	Identification of vector Preisach models from arbitrary measured data using neural networks. Journal of Applied Physics, 2000, 87, 6821-6823.	2.5	14
18	Microscopic investigations of overwritten data. Journal of Applied Physics, 1993, 73, 6001-6003.	2.5	11

#	Article	IF	Citations
19	Performance analysis of coil-gun electromagnetic launcher using a finite element coupled model. , 2016, , .		10
20	Efficient Implementation of Anisotropic Vector Preisach-Type Models Using Coupled Step Functions. IEEE Transactions on Magnetics, 2007, 43, 2962-2964.	2.1	9
21	Magnetic force scanning tunneling microscopy of high density recording. Journal of Applied Physics, 1993, 73, 6180-6182.	2.5	8
22	Experimental testing of pointâ€charge model of magnetic force scanning tunneling microscopy. Journal of Applied Physics, 1993, 73, 5796-5798.	2.5	7
23	Characteristics and Analysis of an Eddy Current Shock Absorber Damper Using Finite Element Analysis. Actuators, 2019, 8, 77.	2.3	7
24	Trends, features and recent research efforts in the field of hybrid electric vehicles. International Journal of Alternative Propulsion, 2006, 1, 1.	0.9	6
25	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
26	Vector hysteresis modeling using octal clusters of coupled step functions. Journal of Applied Physics, 2011, 109, 07D342.	2.5	6
27	Solution of induction heating problems involving media with hysteresis. Journal of Applied Physics, 1996, 79, 4675.	2.5	5
28	Vector magnetic hysteresis modeling of stress annealed galfenol. Journal of Applied Physics, 2013, 113, 17A931.	2.5	5
29	An Efficient Vector Hysteresis Model for Unidirectional Magneto-Elastic Interactions. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	4
30	Incorporating core hysteresis properties in three-dimensional computations of transformer inrush current forces. Journal of Applied Physics, 2009, 105, 07A329.	2.5	3
31	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
32	Efficient Preisach demagnetization algorithm and its experimental testing. Journal of Applied Physics, 1994, 75, 5502-5504.	2.5	2
33	Using The Particle Swarm Evolutionary Approach in Shape Optimization and Field Analysis of Devices Involving Non-linear Magnetic Media. , 2006, , .		2
34	Efficient Modeling of Magnetostrictive Media Using Fuzzy Inference Systems. IEEE Transactions on Magnetics, 2008, 44, 2219-2226.	2.1	2
35	Computation of busbars local electromagnetic force densities connected to 3-pulse rectifier load over a complete cycle. , 2008, , .		2
36	Utilizing electromechanical energy harvesting in vehicle suspension vibration damping. , 2016, , .		2

#	Article	IF	Citations
37	Simulation of magneto-elastic materials using a novel vector hysteresis model. , 2016, , .		2
38	Field Computation in Media Exhibiting Hysteresis Using Hopfield Neural Networks. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	2
39	Deducing local extremely low frequency field values from large sense coil fluxmeter measurements. Journal of Applied Physics, 2009, 105, 07E721.	2.5	1
40	An evolutionary computation approach for time-harmonic field problems involving nonlinear magnetic media. Journal of Applied Physics, 2011, 109, 07D321.	2.5	1
41	A wavelet approach for the identification of surface cracks using current injection perturbation. Journal of Applied Physics, 2012, 111, 07E316.	2.5	1
42	Three-Dimensional Identification of Crack Location in Conducting Slabs Using Wavelets. IEEE Transactions on Magnetics, 2013, 49, 3472-3475.	2.1	1
43	Steady state analysis of a human motion electromechanical energy harvester. , 2016, , .		1
44	Construction of a magnetostrictive hysteresis operator using a tripod-like primitive hopfield neural network. AIP Advances, 2018, 8, 056802.	1.3	1
45	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
46	Electromagnetic forces densities for 3 phase busbar parallel connected to rectifier load. , 2011, , .		0
47	Design and construction of a low cost single-phase induction motor test bench. , 2013, , .		0
48	A specifications-oriented initial design methodology for power transformers. Energy Systems, 2017, 8, 285-296.	3.0	0
49	A wave shaping approach of ferrite inductors exhibiting hysteresis using orthogonal field bias. AIP Advances, 2018, 8, 056643.	1.3	0