Mauro Zucca

List of Publications by Year
in descending order

51 papers	567 citations	687363 13 h-index	713466 21 g-index
51 all docs	51 docs citations	51 times ranked	518 citing authors

#	Article	IF	Citations
1	A Measurement System for the Characterization of Wireless Charging Stations for Electric Vehicles. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	14
2	Assessment of the Overall Efficiency in WPT Stations for Electric Vehicles. Sustainability, 2021, 13, 2436.	3.2	5
3	Impact of Parameters Variability on the Level of Human Exposure Due to Inductive Power Transfer. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	1
4	1-kV Wideband Voltage Transducer, a Novel Method for Calibration, and a Voltage Measurement Chain. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1753-1764.	4.7	8
5	A measurement system for the characterization of wireless charging stations for electric vehicles. , 2020, , .		5
6	Assessment of Exposure to Electric Vehicle Inductive Power Transfer Systems: Experimental Measurements and Numerical Dosimetry. Sustainability, 2020, 12, 4573.	3.2	8
7	Accuracy Assessment of Numerical Dosimetry for the Evaluation of Human Exposure to Electric Vehicle Inductive Charging Systems. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1939-1950.	2.2	25
8	Metrology for Inductive Charging of Electric Vehicles (MICEV). , 2019, , .		15
9	Dynamic Simulation of a Fe-Ga Energy Harvester Prototype Through a Preisach-Type Hysteresis Model. Materials, 2019, 12, 3384.	2.9	4
10	Experimental investigation on a Fe-Ga close yoke vibrational harvester by matching magnetic and mechanical biases. Journal of Magnetism and Magnetic Materials, 2019, 469, 354-363.	2.3	22
11	A Cantilever Vibrational Generator Based on an Feâ€“Co Beam. IEEE Transactions on Magnetics, 2017, 53, 1-7.	2.1	1
12	Frequency Compliance of MV Voltage Sensors for Smart Grid Application. IEEE Sensors Journal, 2017, 17, 7621-7629.	4.7	33
13	Sensing Dynamic Forces by Feâ€“Ga in Compression. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	3
14	Operator Safety and Field Focality in Aluminum Shielded Transcranial Magnetic Stimulation. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	9
15	Design and Implementation of a Resistive MV Voltage Divider. International Review of Electrical Engineering, 2017, 12, 26.	0.2	4
16	Evaluation of the Electric Field Induced in Transcranial Magnetic Stimulation Operators. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	14
17	Loss analysis of an asynchronous multiphase motor-generator for avionics applications. International Journal of Applied Electromagnetics and Mechanics, 2015, 48, 271-276.	0.6	2
18	A Setup for the Performance Characterization and Traceable Efficiency Measurement of Magnetostrictive Harvesters. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1431-1437.	4.7	5

#	Article	IF	Citations
19	Quantities Affecting the Behavior of Vibrational Magnetostrictive Transducers. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	29
20	A simplified vibration compensation through magnetostrictive actuators. JVC/Journal of Vibration and Control, 2015, 21, 2903-2912.	2.6	6
21	A Study on Energy Harvesting by Amorphous Strips. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	13
22	Open Screens for Local Magnetic Shielding at Low Frequencies. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	4
23	Role of Magnetic Materials in a Novel Electrical Motogenerator for the More Electric Aircraft. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	10
24	Micropositioning Through Magnetostrictive Actuators. Sensor Letters, 2013, 11, 87-90.	0.4	2
25	Hysteretic Modeling of Electrical Micro-Power Generators Based on Villari Effect. IEEE Transactions on Magnetics, 2012, 48, 3092-3095.	2.1	12
26	Numerical Investigation of the Effects of Loading and Slot Harmonics on the Core Losses of Induction Machines. IEEE Transactions on Magnetics, 2012, 48, 1063-1066.	2.1	44
27	Modeling magnetostrictive material for high-speed tracking. Journal of Applied Physics, 2011, 109, 07B525.	2.5	3
28	Local Magnetic Shielding of MRI Devices by Superconductive Materials. IEEE Transactions on Magnetics, 2011, 47, 4278-4281.	2.1	2
29	Modeling Amorphous Ribbons in Energy Harvesting Applications. IEEE Transactions on Magnetics, 2011, 47, 4421-4424.	2.1	8
30	Realization of a new experimental setup forÂmagnetostrictive actuators. Meccanica, 2011, 46, 979-987.	2.0	3
31	Analysis of Losses in a Magnetostrictive Device Under Dynamic Supply Conditions. IEEE Transactions on Magnetics, 2010, 46, 183-186.	2.1	7
32	Modeling the Dynamic Behavior of Magnetostrictive Actuators. IEEE Transactions on Magnetics, 2010, 46, 3022-3028.	2.1	30
33	From the ideal to the real induction machine: Modelling approach and experimental validation. Journal of Magnetism and Magnetic Materials, 2008, 320, e901-e906.	2.3	6
34	Analysis of a magnetostrictive actuator equipped for the electromagnetic and mechanical dynamic characterization. Journal of Magnetism and Magnetic Materials, 2008, 320, e915-e919.	2.3	10
35	Highly efficient shielding of high-voltage underground power lines by pure iron screens. Journal of Magnetism and Magnetic Materials, 2008, 320, e1065-e1069.	2.3	13
36	Modeling and Experimental Analysis of Magnetostrictive Devices: From the Material Characterization to Their Dynamic Behavior. IEEE Transactions on Magnetics, 2008, 44, 3009-3012.	2.1	19

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37	A multiscale approach to the analysis of magnetic grid shields and its validation. Journal of Computational Physics, 2007, 227, 1470-1482.	3.8	4
38	Three-dimensional modeling for magnetic field shielding in a high electric power process. Journal of Applied Physics, 2006, 99, 08P503.	2.5	2
39	Induction Motor Rotor Quantities at Load Conditions: Finite Element Analysis and Experimental Validation. IEEE Transactions on Magnetics, 2006, 42, 3476-3478.	2.1	6
40	1â€“100 kHz Magnetic Shielding Efficiency by Metallic Sheets: Modeling and Experiment by a Laboratory Test Bed. IEEE Transactions on Magnetics, 2006, 42, 3533-3535.	2.1	6
41	High-Speed Drag-Cup Induction Motors for Turbo-Molecular Pump Applications. IEEE Transactions on Magnetics, 2006, 42, 3449-3451.	2.1	19
42	Magnetic Shielding of a Cylindrical Shield in Nonlinear Hysteretic Material. IEEE Transactions on Magnetics, 2006, 42, 3189-3191.	2.1	14
43	Experimental setup for the measurement of induction motor cage currents. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1322-1325.	2.3	7
44	Measurement accuracy in shielded magnetic fields. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1326-1329.	2.3	1
45	Probe Influence on the Measurement Accuracy of Nonuniform LF Magnetic Fields. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 722-726.	4.7	11
46	Analysis of a bearingless machine with divided windings. IEEE Transactions on Magnetics, 2005, 41, 3931-3933.	2.1	24
47	Influence of probe size on the measurement accuracy of non-uniform ELF magnetic fields. Radiation Protection Dosimetry, 2004, 111, 369-372.	0.8	0
48	Additional Losses in Induction Machines Under Synchronous No-Load Conditions. IEEE Transactions on Magnetics, 2004, 40, 3254-3261.	2.1	34
49	Passive and Active Electromagnetic Shielding of Induction Heaters. IEEE Transactions on Magnetics, 2004, 40, 675-678.	2.1	26
50	Material efficiency in magnetic shielding at low and intermediate frequency. IEEE Transactions on Magnetics, 2003, 39, 3217-3219.	2.1	7
51	Experimental and numerical investigations on rotational fluxes in stator cores of three-phase motors. IEEE Transactions on Magnetics, 2002, 38, 3294-3296.	2.1	7