Mario Luiso

List of Publications by Year
in descending order

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74 papers	1,235 citations	331259 21 h-index	414034 32 g-index
74 all docs	74 docs citations	74 times ranked	721 citing authors

#	Article	IF	Citations
1	Theory and Experimental Validation of Two Techniques for Compensating VT Nonlinearities. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	6
2	Measuring Harmonics With Inductive Voltage Transformers in Presence of Subharmonics. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	17
3	Extended SINDICOMP: Characterizing MV Voltage Transformers with Sine Waves. Energies, 2021, 14, 1715.	1.6	15
4	Measurement of Synchrophasors with Stand Alone Merging Units: a Preliminary Study. , 2021, , .		8
5	Improving Harmonic Measurements with Instrument Transformers: a Comparison Among Two Techniques. , 2021, , .		3
6	A Laboratory for Testing E-mobility Power Electronics. , 2021, , .		1
7	Instrument Transformers for Power Quality Measurements: a Review of Literature and Standards. , 2021, , .		8
8	Novel Calibration systems for the dynamic and steady-state testing of digital instrument transformers. , 2021, , .		1
9	Uncertainty evaluation on the absolute phase error of digitizers. Transactions of the Institute of Measurement and Control, 2020, 42, 749-758.	1.1	3
10	The Role of Supply Conditions on the Measurement of High-Frequency Emissions. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6667-6676.	2.4	13
11	Power Quality Assessment in Railway Traction Supply Systems. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2355-2366.	2.4	38
12	Design and Characterization of a Stand-Alone Merging Unit. Acta IMEKO (2012), 2020, 9, 40.	0.4	1
13	Measurement of the Absolute Phase Error of Digitizers. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1724-1731.	2.4	16
14	The Design of a Low Cost Phasor Measurement Unit. Energies, 2019, 12, 2648.	1.6	11
15	Calibration of Voltage and Current Transducers for DC Railway Systems. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3850-3860.	2.4	6
16	Low Power Contactless Voltage Sensor for Low Voltage Power Systems. Sensors, 2019, 19, 3513.	2.1	19
17	Compensation of Current Transformersâ€™ Nonlinearities by Tensor Linearization. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3841-3849.	2.4	35
18	Pantograph-to-OHL Arc: Conducted Effects in DC Railway Supply System. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3861-3870.	2.4	31

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19	Assessment of the High Frequency Emissions of Low-Voltage Electronic Equipment Under Different Supply Conditions. , 2019, , .		1
20	Compensation of Nonlinearity of Voltage and Current Instrument Transformers. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1322-1332.	2.4	64
21	A Tuned Lightweight Estimation Algorithm for Low-Cost Phasor Measurement Units. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1047-1057.	2.4	58
22	A New Test Procedure to Measure Power Electronic Devicesâ€™ Frequency Coupling Admittance. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2401-2409.	2.4	34
23	A Low-Voltage Measurement Testbed for Metrological Characterization of Algorithms for Phasor Measurement Units. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2420-2433.	2.4	20
24	Frequency Response of MV Voltage Transformer Under Actual Waveforms. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1146-1154.	2.4	47
25	Improvement of Agilent 3458A Performances in Wideband Complex Transfer Function Measurement. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1108-1116.	2.4	18
26	An automatic system for testing of low-cost electric energy meters under distorted conditions. , 2017, , .		0
27	Frequency Compliance of MV Voltage Sensors for Smart Grid Application. IEEE Sensors Journal, 2017, 17, 7621-7629.	2.4	33
28	Industrial Comparator for Smart Grid Sensor Calibration. IEEE Sensors Journal, 2017, 17, 7784-7793.	2.4	30
29	Smart meter systems for smart grid management. , 2016, , .		12
30	Phase-based estimation of synchrophasors. , 2016, , .		1
31	Design and implementation of a dynamic FPAA based photovoltaic emulator. Solar Energy, 2016, 123, 102-115.	2.9	32
32	Recursive phasor estimation algorithm for synchrophasor measurement. , 2015, , .		4
33	A Characterized Method for the Real-Time Compensation of Power System Measurement Transducers. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1398-1404.	2.4	31
34	Smart Metering. , 2015, , 187-239.		2
35	Power meter verification issue: Reactive power measurement in non sinusoidal conditions. , 2015, , .		5
36	Fast Hybrid MPPT Technique for Photovoltaic Applications: Numerical and Experimental Validation. Advances in Power Electronics, 2014, 2014, 1-15.	0.8	26

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37	Non-conventional instrument current transformer test set for industrial applications. , 2014, , .		4
38	Evaluation of metrological performance of electromagnetic current measurement transformers in non-sinusofdal conditions. , 2014, , .		2
39	A characterized method for the real-time compensation of power system measurement transducers. , 2014, , .		5
40	Measuring System for Microelectric Power. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 410-421.	2.4	16
41	Low cost measurement equipment for the accurate calibration of voltage and current transducers. , 2014, , .		15
42	A low cost smart meter network for a smart utility. , 2014, , .		22
43	Low cost combined voltage and current transducer for Smart Meters. , 2014, , .		5
44	Medium Voltage Divider Coupled With an Analog Optical Transmission System. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2349-2357.	2.4	27
45	Survey on Voltage Dip Measurements in Standard Framework. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 374-387.	2.4	35
46	Embedded Power and Energy Measurement System Based on an Analog Multiplier. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 2248-2257.	2.4	20
47	Design and characterization of a HMPPT technique for PV applications. , 2013, , .		1
48	MV divider with fiber optic insulation. , 2013, , .		3
49	Simulation and laboratory characterization of a hybrid MPPT technique based on the fast estimate of the maximum power voltages in PV applications. , 2013, , .		3
50	Ocular Biometric Measurements to Diagnose Neurological Disorders Due to Wilson Disease. IEEE Sensors Journal, 2013, 13, 3203-3210.	2.4	5
51	AC electronic load for on-site calibration of energy meters. , 2013, , .		12
52	Low cost smart power metering. , 2013, , .		17
53	Experimental validation of mathematical models of storage systems for smart grids. , 2013, , .		4
54	Optimization of Experimental Model Parameter Identification for Energy Storage Systems. Energies, 2013, 6, 4572-4590.	1.6	35

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55	Variable Speed Drive Characterization: Review of Measurement Techniques and Future Trends. Advances in Power Electronics, 2013, 2013, 1-14.	0.8	4
56	Real-time smart meters network for energy management. Acta IMEKO (2012), 2013, 2, 40.	0.4	7
57	AC and DC power quality of photovoltaic systems. , 2012, , .		17
58	Electronic instrument transducer for MV networks with fiber optic insulation. , 2011, , .		6
59	Severity assessment issues for short voltage dips. Measurement: Journal of the International Measurement Confederation, 2010, 43, 1040-1048.	2.5	21
60	Real-Time Digital Compensation of Current Transformers Over a Wide Frequency Range. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1119-1126.	2.4	48
61	Accuracy Analysis of Algorithms Adopted in Voltage Dip Measurements. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 2652-2659.	2.4	46
62	Issues in the characterization of power quality instruments. Measurement: Journal of the International Measurement Confederation, 2010, 43, 1069-1076.	2.5	21
63	A voltage transducer for electrical grid disturbance monitoring over a wide frequency range. , 2010, , .		6
64	Performance verification of instruments adopted for voltage dip measurement. , 2010, , .		2
65	Large bandwidth compensation of current transformers. , 2009, , .		21
66	Advanced Instrument For Field Calibration of Electrical Energy Meters. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 618-625.	2.4	46
67	Power-Quality Monitoring Instrument With FPGA Transducer Compensation. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3149-3158.	2.4	49
68	Metrological characterization of algorithms adopted for voltage dip measurement. , 2009, , .		5
69	A Remotely Controlled Onboard Measurement System for Optimization of Energy Consumption of Electrical Trains. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2250-2256.	2.4	18
70	Performance Analysis of Power Quality Monitoring Instruments. , 2008, , .		11
71	Performances assessment of electrical motors in presence of disturbances on power supply. , 2008, , .		2
72	A technique for real-time correction of measurement instrument transducers frequency responses. , 2008, , .		5

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73	Low Cost Portable Measurement Equipment for Power Quality Indexes Monitoring. , 2008, , .		4
74	Broadband Voltage Transducer with Optically Insulated Output for Power Quality Analyses. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	15