

# 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	Compensation of Nonlinearity of Voltage and Current Instrument Transformers. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1322-1332.	2.4	64
2	A Tuned Lightweight Estimation Algorithm for Low-Cost Phasor Measurement Units. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1047-1057.	2.4	58
3	Power-Quality Monitoring Instrument With FPGA Transducer Compensation. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3149-3158.	2.4	49
4	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
5	Frequency Response of MV Voltage Transformer Under Actual Waveforms. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1146-1154.	2.4	47
6	Advanced Instrument For Field Calibration of Electrical Energy Meters. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 618-625.	2.4	46
7	Accuracy Analysis of Algorithms Adopted in Voltage Dip Measurements. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 2652-2659.	2.4	46
8	Power Quality Assessment in Railway Traction Supply Systems. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2355-2366.	2.4	38
9	Optimization of Experimental Model Parameter Identification for Energy Storage Systems. Energies, 2013, 6, 4572-4590.	1.6	35
10	Survey on Voltage Dip Measurements in Standard Framework. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 374-387.	2.4	35
11	Compensation of Current Transformers's Nonlinearities by Tensor Linearization. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3841-3849.	2.4	35
12	A New Test Procedure to Measure Power Electronic Devices's Frequency Coupling Admittance. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2401-2409.	2.4	34
13	Frequency Compliance of MV Voltage Sensors for Smart Grid Application. IEEE Sensors Journal, 2017, 17, 7621-7629.	2.4	33
14	Design and implementation of a dynamic FPAA based photovoltaic emulator. Solar Energy, 2016, 123, 102-115.	2.9	32
15	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
16	Pantograph-to-OHL Arc: Conducted Effects in DC Railway Supply System. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3861-3870.	2.4	31
17	Industrial Comparator for Smart Grid Sensor Calibration. IEEE Sensors Journal, 2017, 17, 7784-7793.	2.4	30
18	Medium Voltage Divider Coupled With an Analog Optical Transmission System. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2349-2357.	2.4	27

#	ARTICLE	IF	CITATIONS
19	Fast Hybrid MPPT Technique for Photovoltaic Applications: Numerical and Experimental Validation. <i>Advances in Power Electronics</i> , 2014, 2014, 1-15.	0.8	26
20	A low cost smart meter network for a smart utility. , 2014, , .		22
21	Large bandwidth compensation of current transformers. , 2009, , .		21
22	Severity assessment issues for short voltage dips. <i>Measurement: Journal of the International Measurement Confederation</i> , 2010, 43, 1040-1048.	2.5	21
23	Issues in the characterization of power quality instruments. <i>Measurement: Journal of the International Measurement Confederation</i> , 2010, 43, 1069-1076.	2.5	21
24	Embedded Power and Energy Measurement System Based on an Analog Multiplier. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013, 62, 2248-2257.	2.4	20
25	A Low-Voltage Measurement Testbed for Metrological Characterization of Algorithms for Phasor Measurement Units. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018, 67, 2420-2433.	2.4	20
26	Low Power Contactless Voltage Sensor for Low Voltage Power Systems. <i>Sensors</i> , 2019, 19, 3513.	2.1	19
27	A Remotely Controlled Onboard Measurement System for Optimization of Energy Consumption of Electrical Trains. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2008, 57, 2250-2256.	2.4	18
28	Improvement of Agilent 3458A Performances in Wideband Complex Transfer Function Measurement. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017, 66, 1108-1116.	2.4	18
29	AC and DC power quality of photovoltaic systems. , 2012, , .		17
30	Low cost smart power metering. , 2013, , .		17
31	Measuring Harmonics With Inductive Voltage Transformers in Presence of Subharmonics. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-13.	2.4	17
32	Measuring System for Microelectric Power. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014, 63, 410-421.	2.4	16
33	Measurement of the Absolute Phase Error of Digitizers. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 1724-1731.	2.4	16
34	Broadband Voltage Transducer with Optically Insulated Output for Power Quality Analyses. <i>Conference Record - IEEE Instrumentation and Measurement Technology Conference</i> , 2007, , .	0.0	15
35	Low cost measurement equipment for the accurate calibration of voltage and current transducers. , 2014, , .		15
36	Extended SINDICOMP: Characterizing MV Voltage Transformers with Sine Waves. <i>Energies</i> , 2021, 14, 1715.	1.6	15

#	ARTICLE	IF	CITATIONS
37	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
38	AC electronic load for on-site calibration of energy meters. , 2013, , .		12
39	Smart meter systems for smart grid management. , 2016, , .		12
40	Performance Analysis of Power Quality Monitoring Instruments. , 2008, , .		11
41	The Design of a Low Cost Phasor Measurement Unit. Energies, 2019, 12, 2648.	1.6	11
42	Measurement of Synchrophasors with Stand Alone Merging Units: a Preliminary Study. , 2021, , .		8
43	Instrument Transformers for Power Quality Measurements: a Review of Literature and Standards. , 2021, , .		8
44	Real-time smart meters network for energy management. Acta IMEKO (2012), 2013, 2, 40.	0.4	7
45	A voltage transducer for electrical grid disturbance monitoring over a wide frequency range. , 2010, , .		6
46	Electronic instrument transducer for MV networks with fiber optic insulation. , 2011, , .		6
47	Calibration of Voltage and Current Transducers for DC Railway Systems. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3850-3860.	2.4	6
48	Theory and Experimental Validation of Two Techniques for Compensating VT Nonlinearities. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	6
49	A technique for real-time correction of measurement instrument transducers frequency responses. , 2008, , .		5
50	Metrological characterization of algorithms adopted for voltage dip measurement. , 2009, , .		5
51	Ocular Biometric Measurements to Diagnose Neurological Disorders Due to Wilson Disease. IEEE Sensors Journal, 2013, 13, 3203-3210.	2.4	5
52	A characterized method for the real-time compensation of power system measurement transducers. , 2014, , .		5
53	Low cost combined voltage and current transducer for Smart Meters. , 2014, , .		5
54	Power meter verification issue: Reactive power measurement in non sinusoidal conditions. , 2015, , .		5

#	ARTICLE	IF	CITATIONS
55	Low Cost Portable Measurement Equipment for Power Quality Indexes Monitoring. , 2008, , .		4
56	Experimental validation of mathematical models of storage systems for smart grids. , 2013, , .		4
57	Variable Speed Drive Characterization: Review of Measurement Techniques and Future Trends. Advances in Power Electronics, 2013, 2013, 1-14.	0.8	4
58	Non-conventional instrument current transformer test set for industrial applications. , 2014, , .		4
59	Recursive phasor estimation algorithm for synchrophasor measurement. , 2015, , .		4
60	MV divider with fiber optic insulation. , 2013, , .		3
61	Simulation and laboratory characterization of a hybrid MPPT technique based on the fast estimate of the maximum power voltages in PV applications. , 2013, , .		3
62	Uncertainty evaluation on the absolute phase error of digitizers. Transactions of the Institute of Measurement and Control, 2020, 42, 749-758.	1.1	3
63	Improving Harmonic Measurements with Instrument Transformers: a Comparison Among Two Techniques. , 2021, , .		3
64	Performances assessment of electrical motors in presence of disturbances on power supply. , 2008, , .		2
65	Performance verification of instruments adopted for voltage dip measurement. , 2010, , .		2
66	Evaluation of metrological performance of electromagnetic current measurement transformers in non-sinusoidal conditions. , 2014, , .		2
67	Smart Metering. , 2015, , 187-239.		2
68	Design and characterization of a HMPPT technique for PV applications. , 2013, , .		1
69	Phase-based estimation of synchrophasors. , 2016, , .		1
70	Assessment of the High Frequency Emissions of Low-Voltage Electronic Equipment Under Different Supply Conditions. , 2019, , .		1
71	A Laboratory for Testing E-mobility Power Electronics. , 2021, , .		1
72	Design and Characterization of a Stand-Alone Merging Unit. Acta IMEKO (2012), 2020, 9, 40.	0.4	1

#	ARTICLE	IF	CITATIONS
73	Novel Calibration systems for the dynamic and steady-state testing of digital instrument transformers. , 2021, , .		1
74	An automatic system for testing of low-cost electric energy meters under distorted conditions. , 2017, , .		0