

Alfredo Testa

List of Publications by Year in descending order

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76
papers

1,727
citations

361413

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h-index

302126

39
g-index

76
all docs

76
docs citations

76
times ranked

1142
citing authors

#	ARTICLE	IF	CITATIONS
1	Interharmonics: Theory and Modeling. IEEE Transactions on Power Delivery, 2007, 22, 2335-2348.	4.3	256
2	On the Processing of Harmonics and Interharmonics: Using Hanning Window in Standard Framework. IEEE Transactions on Power Delivery, 2004, 19, 28-34.	4.3	191
3	Markov chain modeling for very-short-term wind power forecasting. Electric Power Systems Research, 2015, 122, 152-158.	3.6	121
4	Desynchronized Processing Technique for Harmonic and Interharmonic Analysis. IEEE Transactions on Power Delivery, 2004, 19, 993-1001.	4.3	105
5	Experimental-Based Evaluation of PV Inverter Harmonic and Interharmonic Distortion Due to Different Operating Conditions. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2221-2233.	4.7	103
6	Time-varying harmonics. II. Harmonic summation and propagation. IEEE Transactions on Power Delivery, 2002, 17, 279-285.	4.3	95
7	On the Interharmonic Components Generated by Adjustable Speed Drives. IEEE Transactions on Power Delivery, 2005, 20, 2535-2543.	4.3	59
8	A Benchmark Test System to Evaluate Methods of Harmonic Contribution Determination. IEEE Transactions on Power Delivery, 2019, 34, 23-31.	4.3	48
9	On the Effects of Unbalances, Harmonics and Interharmonics on PLL Systems. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 2399-2409.	4.7	45
10	Analysis and Modelling of Power-Dependent Harmonic Characteristics of Modern PE Devices in LV Networks. IEEE Transactions on Power Delivery, 2017, 32, 1014-1023.	4.3	36
11	Energy management system based on techno-economic optimization for microgrids. Electric Power Systems Research, 2016, 131, 49-59.	3.6	35
12	On the Use of the Flickermeter to Limit Low-Frequency Interharmonic Voltages. IEEE Transactions on Power Delivery, 2008, 23, 1720-1727.	4.3	34
13	A New Test Procedure to Measure Power Electronic Devices' Frequency Coupling Admittance. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2401-2409.	4.7	34
14	Unbalance Definition for Electrical Power Systems in the Presence of Harmonics and Interharmonics. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 2622-2631.	4.7	33
15	Implementation of a Test System for Advanced Calibration and Performance Analysis of Flickermeters. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 1078-1085.	4.7	31
16	Hybrid wind-diesel stand-alone system sizing accounting for component expected life and fuel price uncertainty. Electric Power Systems Research, 2012, 88, 69-77.	3.6	30
17	A self-tuning harmonic and interharmonic processing technique. European Transactions on Electrical Power, 2002, 12, 25-31.	1.0	29
18	A New Approach for the Computation of Harmonics and Interharmonics Produced by Line-Commutated AC/DC/AC Converters. IEEE Transactions on Power Delivery, 2005, 20, 2227-2234.	4.3	27

#	ARTICLE	IF	CITATIONS
19	Harmonic impedance measurement based on short time current injections. Electric Power Systems Research, 2017, 148, 108-116.	3.6	26
20	A New Method for Statistical Assessment of the System Harmonic Impedance and of the Background Voltage Distortion. , 2006, , .		21
21	Light Flicker and Power Factor Labels for Comparing LED Lamp Performance. IEEE Transactions on Industry Applications, 2019, 55, 7062-7070.	4.9	20
22	Selective Interharmonic Compensation to Improve Statcom Performance for Light Flicker Mitigation. IEEE Transactions on Power Delivery, 2018, 33, 2442-2451.	4.3	19
23	Experimental evaluation and classification of LED lamps for light flicker sensitivity. , 2018, , .		19
24	Resonant electromagnetic vibration harvesters feeding sensor nodes for real-time diagnostics and monitoring in railway vehicles for goods transportation: A numerical-experimental analysis. , 2016, , .		16
25	Generalized lamp model for light flicker studies. Electric Power Systems Research, 2018, 154, 413-422.	3.6	16
26	A New Algorithm for Energy Measurement at Positive Sequence of Fundamental Power Frequency, Under Unbalanced Non-Sinusoidal Conditions. , 2007, , .		15
27	Analysis of Approaches for Modeling the Low Frequency Emission of LED Lamps. Energies, 2020, 13, 1571.	3.1	15
28	Unifying Supply Reliability and Voltage Quality in the Representation of an Electrical System Node. IEEE Transactions on Power Delivery, 2010, 25, 1172-1181.	4.3	13
29	On the use of fourier descriptors for the assessment of frequency coupling matrices of power electronic devices. , 2018, , .		13
30	Proposal of a Desynchronized Processing Technique for Assessing High-Frequency Distortion in Power Systems. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3883-3891.	4.7	13
31	The Role of Supply Conditions on the Measurement of High-Frequency Emissions. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6667-6676.	4.7	13
32	A new approach for the computation of harmonics and interharmonics produced by AC/DC/AC conversion systems with PWM inverters. European Transactions on Electrical Power, 2010, 20, 68-82.	1.0	12
33	Waveform distortion caused by high power adjustable speed drives part I: High computational efficiency models. European Transactions on Electrical Power, 2003, 13, 347-354.	1.0	11
34	On the Effects of Subsynchronous Interharmonic Voltages on Power Transformers: Three Phase Units. IEEE Transactions on Power Delivery, 2008, 23, 2461-2471.	4.3	11
35	A new frequency approach for light flicker evaluation in electric power systems. Eurasip Journal on Advances in Signal Processing, 2015, 2015, .	1.7	11
36	The Effects of Integration Intervals on Recursive RMS Value and Power Measurement in Nonsinusoidal Conditions. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3047-3057.	4.7	10

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37	Waveform distortion caused by high power adjustable speed drives part II: Probabilistic analysis. European Transactions on Electrical Power, 2003, 13, 355-363.	1.0	9
38	On the Effects of Subsynchronous Interharmonic Voltages on Power Transformers: Single Phase Units. IEEE Transactions on Power Delivery, 2008, 23, 2480-2487.	4.3	9
39	Survey of harmonic current unbalance in public low voltage networks. , 2016, , .		9
40	Harmonic Modelling of LED lamps by Means of Admittance Frequency Coupling Matrices. , 2019, , .		9
41	Incorporating regulator requirements in reliability analysis of smart grids. Part 1: Input data and models. , 2014, , .		8
42	On Evaluation of Power Electronic Devicesâ€™ Efficiency for Nonsinusoidal Voltage Supply and Different Operating Powers. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2216-2224.	4.7	8
43	Limits for low frequency interharmonic voltages: Can they be based on the Flickermeter use. , 2005, , .		7
44	Harmonic emission of PV inverters under different voltage supply conditions and operating powers. , 2016, , .		7
45	A new model of lead-acid batteries lifetime in smart grid scenario. , 2014, , .		6
46	A real life light flicker case-study with LED lamps. , 2018, , .		6
47	Power system impedance measurement based on wavelet voltage imposed. , 2014, , .		5
48	Operating Cycle Performance, Lost Periodicity, and Waveform Distortion of Switch-Mode Power Supplies. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2434-2443.	4.7	5
49	Assessing Distortion Within the IEC Framework in the Presence of High Frequency Components: Some Considerations on Signal Processing. , 2018, , .		5
50	Switching Power Supplies: Analysis of waveform distortion and absorbed powers. , 2007, , .		4
51	On the Assessment of Light Flicker due to the Interharmonic Distortion Produced by Wind Turbines. , 2007, , .		4
52	Experimental analysis of mechanical vibrations and wind speed for a rail vehicle WSN fed by energy harvesters. , 2015, , .		4
53	Comparison of conventional and meta-heuristic methods for security-constrained OPF analysis. , 2015, , .		4
54	Solar Radiation Forecasting, Accounting for Daily Variability. Energies, 2016, 9, 200.	3.1	4

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55	Unbalance characteristics of fundamental and harmonic currents of three-phase electric vehicle battery chargers. IET Generation, Transmission and Distribution, 2020, 14, 6220-6229.	2.5	4
56	On the use of unbalance definition to control compensators for arc furnaces. , 2013, , .		3
57	Performance comparison of three main SMPS types under sinusoidal and distorted supply voltage. , 2017, , .		3
58	New Comprehensive Analytical Model of Single-Phase AC/DC Diode Rectifiers in the Presence of Interharmonics in Supply Voltage. , 2022, , .		3
59	Analysis and estimation of truncation errors in modeling complex resonant circuits with the EMTP. International Journal of Electrical Power and Energy Systems, 2002, 24, 295-304.	5.5	2
60	Distributing the train traction power over cars: effects on dependability analyzed based on daily duty-cycle. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2004, 23, 209-224.	0.9	2
61	Incorporating regulator requirements in reliability analysis of smart grids. Part 2: Scenarios and results. , 2014, , .		2
62	Some considerations on interharmonic voltage limits and their assessment. , 2008, , .		1
63	On the Use of Flickermeter and DFT Based Techniques for the Assessment of Light Flicker and Interharmonic Distortion Produced by Arc Furnaces. , 2008, , .		1
64	On Supply Reliability and Voltage Quality in the presence of feeder automation in MV Smart Grids. , 2015, , .		1
65	Supply interruptions and voltage dips in smart distribution systems with feeder automation and reconfiguration. , 2016, , .		1
66	On convergence of conventional and meta-heuristic methods for security-constrained OPF analysis. , 2016, , .		1
67	Impact of Lost Periodicity on Efficiency and Current Waveform Distortion of SMPS'. , 2017, , .		1
68	Temporal Variations of System Operating Conditions and Continuous Assessment of Low-Order Harmonic Emissions from Customer Installations: Voltage Harmonic Vector Approach. , 2019, , .		1
69	Assessment of the High Frequency Emissions of Low-Voltage Electronic Equipment Under Different Supply Conditions. , 2019, , .		1
70	Development of a Power Dependent Frequency Domain Model of an Inverter-driven Heat Pump. , 2022, , .		1
71	PMAPS 2002 conference on probabilistic methods applied to power systems. European Transactions on Electrical Power, 2003, 13, 345-345.	1.0	0
72	On the effects of subsynchronous interharmonic voltages on power transformers: Three phase units. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
73	Markovian Approaches to Model Wind Speed of a Site and Power Availability of a Wind Turbine. , 0, , .		0
74	Modeling of Equipment Susceptibility in the Presence of Voltage Dip Sequences in Smart Distribution Systems. , 2018, , .		0
75	On the Application of Partial Waveforms Technique to Electric Vehicles Battery Chargers Modeling. , 2018, , .		0
76	Minimizing Power Losses in Distribution Systems Using GA in Planning and Operation: A Case Study for DGs and SCs. International Journal of Grid and Distributed Computing, 2017, 10, 1-12.	0.8	0