

Alfredo Testa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1423674/publications.pdf>

Version: 2024-02-01

76
papers

1,727
citations

361413

20
h-index

302126

39
g-index

76
all docs

76
docs citations

76
times ranked

1142
citing authors

#	ARTICLE	IF	CITATIONS
1	New Comprehensive Analytical Model of Single-Phase AC/DC Diode Rectifiers in the Presence of Interharmonics in Supply Voltage. , 2022, , .		3
2	Development of a Power Dependent Frequency Domain Model of an Inverter-driven Heat Pump. , 2022, , .		1
3	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
4	Analysis of Approaches for Modeling the Low Frequency Emission of LED Lamps. Energies, 2020, 13, 1571.	3.1	15
5	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
6	Light Flicker and Power Factor Labels for Comparing LED Lamp Performance. IEEE Transactions on Industry Applications, 2019, 55, 7062-7070.	4.9	20
7	Temporal Variations of System Operating Conditions and Continuous Assessment of Low-Order Harmonic Emissions from Customer Installations: Voltage Harmonic Vector Approach. , 2019, , .		1
8	Harmonic Modelling of LED lamps by Means of Admittance Frequency Coupling Matrices. , 2019, , .		9
9	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
10	Assessment of the High Frequency Emissions of Low-Voltage Electronic Equipment Under Different Supply Conditions. , 2019, , .		1
11	A Benchmark Test System to Evaluate Methods of Harmonic Contribution Determination. IEEE Transactions on Power Delivery, 2019, 34, 23-31.	4.3	48
12	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
13	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
14	Selective Interharmonic Compensation to Improve Statcom Performance for Light Flicker Mitigation. IEEE Transactions on Power Delivery, 2018, 33, 2442-2451.	4.3	19
15	Generalized lamp model for light flicker studies. Electric Power Systems Research, 2018, 154, 413-422.	3.6	16
16	Modeling of Equipment Susceptibility in the Presence of Voltage Dip Sequences in Smart Distribution Systems. , 2018, , .		0
17	On the Application of Partial Waveforms Technique to Electric Vehicles Battery Chargers Modeling. , 2018, , .		0
18	Assessing Distortion Within the IEC Framework in the Presence of High Frequency Components: Some Considerations on Signal Processing. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
19	Experimental evaluation and classification of LED lamps for light flicker sensitivity. , 2018, , .		19
20	On the use of fourier descriptors for the assessment of frequency coupling matrices of power electronic devices. , 2018, , .		13
21	A real life light flicker case-study with LED lamps. , 2018, , .		6
22	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
23	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
24	Harmonic impedance measurement based on short time current injections. Electric Power Systems Research, 2017, 148, 108-116.	3.6	26
25	Performance comparison of three main SMPS types under sinusoidal and distorted supply voltage. , 2017, , .		3
26	Impact of Lost Periodicity on Efficiency and Current Waveform Distortion of SMPS'. , 2017, , .		1
27	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
28	Solar Radiation Forecasting, Accounting for Daily Variability. Energies, 2016, 9, 200.	3.1	4
29	Supply interruptions and voltage dips in smart distribution systems with feeder automation and reconfiguration. , 2016, , .		1
30	Harmonic emission of PV inverters under different voltage supply conditions and operating powers. , 2016, , .		7
31	Survey of harmonic current unbalance in public low voltage networks. , 2016, , .		9
32	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
33	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
34	On convergence of conventional and meta-heuristic methods for security-constrained OPF analysis. , 2016, , .		1
35	Energy management system based on techno-economic optimization for microgrids. Electric Power Systems Research, 2016, 131, 49-59.	3.6	35
36	Experimental analysis of mechanical vibrations and wind speed for a rail vehicle WSN fed by energy harvesters. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
37	Comparison of conventional and meta-heuristic methods for security-constrained OPF analysis. , 2015, , .		4
38	On Supply Reliability and Voltage Quality in the presence of feeder automation in MV Smart Grids. , 2015, , .		1
39	Markov chain modeling for very-short-term wind power forecasting. Electric Power Systems Research, 2015, 122, 152-158.	3.6	121
40	A new frequency approach for light flicker evaluation in electric power systems. Eurasip Journal on Advances in Signal Processing, 2015, 2015, .	1.7	11
41	Incorporating regulator requirements in reliability analysis of smart grids. Part 1: Input data and models. , 2014, , .		8
42	A new model of lead-acid batteries lifetime in smart grid scenario. , 2014, , .		6
43	Incorporating regulator requirements in reliability analysis of smart grids. Part 2: Scenarios and results. , 2014, , .		2
44	Power system impedance measurement based on wavelet voltage imposed. , 2014, , .		5
45	On the use of unbalance definition to control compensators for arc furnaces. , 2013, , .		3
46	On the Effects of Unbalances, Harmonics and Interharmonics on PLL Systems. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 2399-2409.	4.7	45
47	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
48	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
49	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
50	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
51	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
52	On the effects of subsynchronous interharmonic voltages on power transformers: Three phase units. , 2009, , .		0
53	On the Use of the Flickermeter to Limit Low-Frequency Interharmonic Voltages. IEEE Transactions on Power Delivery, 2008, 23, 1720-1727.	4.3	34
54	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

#	ARTICLE	IF	CITATIONS
55	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
56	Some considerations on interharmonic voltage limits and their assessment. , 2008, , .		1
57	On the Use of Flickermeter and DFT Based Techniques for the Assessment of Light Flicker and Interharmonic Distortion Produced by Arc Furnaces. , 2008, , .		1
58	Switching Power Supplies: Analysis of waveform distortion and absorbed powers. , 2007, , .		4
59	A New Algorithm for Energy Measurement at Positive Sequence of Fundamental Power Frequency, Under Unbalanced Non-Sinusoidal Conditions. , 2007, , .		15
60	On the Assessment of Light Flicker due to the Interharmonic Distortion Produced by Wind Turbines. , 2007, , .		4
61	Interharmonics: Theory and Modeling. IEEE Transactions on Power Delivery, 2007, 22, 2335-2348.	4.3	256
62	A New Method for Statistical Assessment of the System Harmonic Impedance and of the Background Voltage Distortion. , 2006, , .		21
63	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
64	Limits for low frequency interharmonic voltages: Can they be based on the Flickermeter use. , 2005, , .		7
65	On the Interharmonic Components Generated by Adjustable Speed Drives. IEEE Transactions on Power Delivery, 2005, 20, 2535-2543.	4.3	59
66	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
67	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
68	Desynchronized Processing Technique for Harmonic and Interharmonic Analysis. IEEE Transactions on Power Delivery, 2004, 19, 993-1001.	4.3	105
69	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
70	PMAPS 2002 conference on probabilistic methods applied to power systems. European Transactions on Electrical Power, 2003, 13, 345-345.	1.0	0
71	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
72	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

#	ARTICLE	IF	CITATIONS
73	Time-varying harmonics. II. Harmonic summation and propagation. IEEE Transactions on Power Delivery, 2002, 17, 279-285.	4.3	95
74	A self-tuning harmonic and interharmonic processing technique. European Transactions on Electrical Power, 2002, 12, 25-31.	1.0	29
75	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
76	Markovian Approaches to Model Wind Speed of a Site and Power Availability of a Wind Turbine. , 0, , .		0