

Julio Barros

List of Publications by Year in descending order

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57
papers

1,096
citations

516710

16
h-index

477307

29
g-index

57
all docs

57
docs citations

57
times ranked

801
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of Harmonics in Power Systems Using the Wavelet-Packet Transform. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 63-69.	4.7	155
2	Application of the Wavelet-Packet Transform to the Estimation of Harmonic Groups in Current and Voltage Waveforms. IEEE Transactions on Power Delivery, 2006, 21, 533-535.	4.3	93
3	Automatic Detection and Analysis of Voltage Events in Power Systems. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1487-1493.	4.7	75
4	Applications of Wavelet Transform for Analysis of Harmonic Distortion in Power Systems: A Review. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 2604-2611.	4.7	72
5	Applications of wavelets in electric power quality: Voltage events. Electric Power Systems Research, 2012, 88, 130-136.	3.6	68
6	On the Use of the Hanning Window for Harmonic Analysis in the Standard Framework. IEEE Transactions on Power Delivery, 2006, 21, 538-539.	4.3	57
7	A Proposal for On-Line Detection and Classification of Voltage Events in Power Systems. IEEE Transactions on Power Delivery, 2008, 23, 2132-2138.	4.3	54
8	A virtual measurement instrument for electrical power quality analysis using wavelets. Measurement: Journal of the International Measurement Confederation, 2009, 42, 298-307.	5.0	41
9	An adaptive method for determining the reference compensating current in single-phase shunt active power filters. IEEE Transactions on Power Delivery, 2003, 18, 1578-1580.	4.3	37
10	An extended Kalman filtering approach for detection and analysis of voltage dips in power systems. Electric Power Systems Research, 2008, 78, 618-625.	3.6	33
11	Rapid Voltage Changes in Power System Networks and Their Effect on Flicker. IEEE Transactions on Power Delivery, 2016, 31, 262-270.	4.3	33
12	Voltage Event Detection and Characterization Methods: A Comparative Study. , 2006, , .		32
13	A new method for measurement of harmonic groups in power systems using wavelet analysis in the IEC standard framework. Electric Power Systems Research, 2006, 76, 200-208.	3.6	29
14	Power Quality in DC Distribution Networks. Energies, 2019, 12, 848.	3.1	27
15	Global method for time-frequency analysis of harmonic distortion in power systems using the wavelet packet transform. Electric Power Systems Research, 2009, 79, 1226-1239.	3.6	26
16	A review of measurement and analysis of electric power quality on shipboard power system networks. Renewable and Sustainable Energy Reviews, 2016, 62, 665-672.	16.4	22
17	A Discussion of New Requirements for Measurement of Harmonic Distortion in Modern Power Supply Systems. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 2129-2139.	4.7	21
18	Realtime fault detection and classification in power systems using microprocessors. IET Generation, Transmission and Distribution, 1994, 141, 315.	1.1	16

#	ARTICLE	IF	CITATIONS
19	Measurement of Subharmonics in Power Voltages. , 2007, , .		16
20	A combined wavelet - Kalman filtering scheme for automatic detection and analysis of voltage dips in power systems. , 2005, , .		15
21	Definition and Measurement of Power Quality Indices in Low Voltage DC Networks. , 2018, , .		15
22	A real-time method for time- frequency detection of transient disturbances in voltage supply systems. Electric Power Systems Research, 2014, 108, 103-112.	3.6	13
23	A review of international limits for rapid voltage changes in public distribution networks. Renewable and Sustainable Energy Reviews, 2021, 144, 110966.	16.4	12
24	Subharmonic measurement using DFT and Wavelet-Packet Transform in an IEC extended framework. Measurement: Journal of the International Measurement Confederation, 2010, 43, 1603-1608.	5.0	10
25	Review of signal processing techniques for detection of transient disturbances in voltage supply systems. , 2013, , .		10
26	An Extended Kalman Filter Approach for Accurate Instantaneous Dynamic Phasor Estimation. Energies, 2018, 11, 2918.	3.1	10
27	Voltage notch detection and analysis using wavelets. , 2008, , .		9
28	Application of Advanced Digital Signal Processing Tools for Analysis of Voltage Events in Power Systems. International Journal of Electrical Engineering and Education, 2009, 46, 211-224.	0.8	8
29	A Laboratory for Power Quality Analysis. International Journal of Electrical Engineering and Education, 2001, 38, 210-222.	0.8	7
30	Effects of nonsinusoidal supply on voltage tolerance of equipment. IEEE Power Engineering Review, 2002, 22, 46-47.	0.1	7
31	Limitations in the use of the IEC standard method for detection and analysis of rapid voltage changes in power system networks. , 2016, , .		7
32	On-line monitoring of electrical power quality for assessment of induction motor performance. , 2009, , .		6
33	A wavelet-based transient detector for P and M class phasor measurement unit integration. , 2017, , .		6
34	Applications of wavelet transforms in electric power quality: Harmonic distortion. , 2011, , .		5
35	Type testing of a highly accurate illuminance flickermeter. , 2012, , .		5
36	Detection and analysis of rapid voltage changes in power system networks. , 2014, , .		5

#	ARTICLE	IF	CITATIONS
37	Real-time implementation of wavelet transforms for electrical power quality applications. , 2008, , .		4
38	Measurement of voltage distortion in the frequency range 2 – 9 kHz. , 2010, , .		4
39	A laboratory for time-frequency analysis of power quality disturbances using wavelets. , 2010, , .		4
40	A new method for real-time detection of transient disturbances in low-voltage supply systems. , 2012, , .		4
41	Transient detection in phasor measurement units with kalman filtering. , 2018, , .		4
42	A virtual instrument for the measurement of voltage unbalance in power systems. , 2008, , .		3
43	Tracking time-varying waveform distortion in power systems using filter banks. , 2012, , .		2
44	Case study: Flicker emission and 3P power oscillations on fixed-speed wind turbines. , 2012, , .		2
45	A simple Discrete Fourier Transform-based synchronization method for power quality measurement. , 2013, , .		2
46	Guest editorial introduction to the special issue on "advanced signal processing techniques and telecommunications network infrastructures for smart grid analysis, monitoring, and management" Eurasip Journal on Advances in Signal Processing, 2015, 2015, .	1.7	2
47	Characterization of even harmonics in power system networks. , 2020, , .		2
48	Discussion of "Active voltage correction for industrial plants". IEEE Transactions on Industry Applications, 2003, 39, 1211.	4.9	1
49	Discussion of "Sensitivity of Personal Computers to Voltage Sags and Short Interruptions" IEEE Transactions on Power Delivery, 2006, 21, 543-544.	4.3	1
50	Investigation of even harmonics in low-voltage distribution networks. , 2020, , .		1
51	Analysis and Visualization of Time-Varying Harmonics in Transformer Inrush Currents. , 2021, , .		1
52	Effects of Windowing on the Measurement of Harmonics and Interharmonics in the IEC Standard Framework. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	1
53	Limitations in the Use of R.M.S. Value in Power Quality Analysis. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	1
54	Measurement and Analysis of Voltage Events. , 2007, , 73-102.		0

#	ARTICLE	IF	CITATIONS
55	Discussion of "Reformulating Power Components Definitions Contained in the IEEE Standard 1459â€“2000 Using Discrete Wavelet Transform". IEEE Transactions on Power Delivery, 2008, 23, 1698-1698.	4.3	0
56	Detection and analysis of transient disturbances in a low-voltage supply system. , 2013, , .		0
57	A New Harmonic Extraction Method for Estimation of the Reference Compensation Current in Shunt Active Power Filters. , 2022, , .		0