

# Dario Di Cara

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

1,452  
citations

331670

21  
h-index

395702

33  
g-index

82  
all docs

82  
docs citations

82  
times ranked

884  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Line Impedance Calculator Based on a G3 PLC Modem Platform. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	5
2	A single-point approach based on nonactive power factor for the assessment of harmonic distortion sources in power systems. , 2022, , .		0
3	Measurement of Simplified Single- and Three-Phase Parameters for Harmonic Emission Assessment Based on IEEE 1459-2010. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	15
4	Implementation of a PLC Field Analyzer on a G3 Modem Platform. , 2021, , .		3
5	Characterization of DC series arc faults in PV systems based on current low frequency spectral analysis. Measurement: Journal of the International Measurement Confederation, 2021, 182, 109770.	5.0	7
6	A new method for forecasting energy output of a large-scale solar power plant based on long short-term memory networks a case study in Vietnam. Electric Power Systems Research, 2021, 199, 107427.	3.6	24
7	An interface protection system based on an embedded metrology system platform. Measurement: Sensors, 2021, 18, 100237.	1.7	2
8	Comparison of two different approaches for harmonic distortion sources assessment. , 2021, , .		0
9	Enhanced islanding detection in smart interface protection systems of distributed generation. , 2021, , .		1
10	A PLC based monitoring and remote control architecture for Distributed Generation and Storage systems in LV smart grids. , 2021, , .		2
11	PQ and Harmonic Assessment Issues on Low-Cost Smart Metering Platforms: A Case Study. Sensors, 2020, 20, 6361.	3.8	16
12	Implementation of a Management System for Prosumer Energy Storage Scheduling in Smart Grids. , 2020, , .		0
13	Design of a Time Dissemination System Using Chirp Modulation for Medium Voltage Smart Grid Applications. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6686-6695.	4.7	7
14	A Virtual Tool for Load Flow Analysis in a Micro-Grid. Energies, 2020, 13, 3173.	3.1	7
15	A Resilient Distributed Measurement System for Smart Grid Application. Communications in Computer and Information Science, 2020, , 139-153.	0.5	1
16	An Improved Load Flow Method for MV Networks Based on LV Load Measurements and Estimations. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 430-438.	4.7	20
17	A New Coupling Solution for G3-PLC Employment in MV Smart Grids. Energies, 2019, 12, 2474.	3.1	4
18	Incremental Heuristic Approach for Meter Placement in Radial Distribution Systems. Energies, 2019, 12, 3917.	3.1	3

#	ARTICLE	IF	CITATIONS
19	An Innovative Coupling Solution for Power Line Communication in MV Electrical Networks. , 2019, , .		0
20	Real-Time Power Flow Monitoring and Control System for Microgrids Integration in Islanded Scenarios. IEEE Transactions on Industry Applications, 2019, 55, 7186-7197.	4.9	20
21	A Monitoring and Management System for Energy Storage Integration in Smart Grids. , 2019, , .		2
22	Li-ion Battery Modeling and State of Charge Estimation Method Including the Hysteresis Effect. Electronics (Switzerland), 2019, 8, 1324.	3.1	11
23	Implementation and Experimental Tests of a Management System for MV/LV Distribution Grids. , 2019, , .		0
24	An Experimental Characterization of Time of Arrival Accuracy for Time Synchronization of Medium Voltage Smart Grid Solutions. , 2019, , .		1
25	Compensation of Nonlinearity of Voltage and Current Instrument Transformers. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1322-1332.	4.7	64
26	A new low cost power line communication solution for smart grid monitoring and management. IEEE Instrumentation and Measurement Magazine, 2018, 21, 29-33.	1.6	33
27	A New Low Cost Coupling System for Power Line Communication on Medium Voltage Smart Grids. IEEE Transactions on Smart Grid, 2018, 9, 3321-3329.	9.0	42
28	Metrological performances of voltage and current instrument transformers in harmonics measurements. , 2018, , .		19
29	Design and Characterization of a New MV PLC Coupler for Smart Electric Energy Systems. , 2018, , .		1
30	PQ Metrics Implementation on Low Cost Smart Metering Platforms. A Case Study Analysis. , 2018, , .		9
31	IEEE Std. 1459 power quantities ratio approaches for simplified harmonic emissions assessment. , 2018, , .		4
32	A new PLC-based smart metering architecture for medium/low voltage grids: Feasibility and experimental characterization. Measurement: Journal of the International Measurement Confederation, 2018, 129, 479-488.	5.0	39
33	Measurement uncertainty impact on simplified load flow analysis in MV smart grids. , 2018, , .		4
34	Characterization of IP-Based Communication for Smart Grid Using Software-Defined Networking. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2410-2419.	4.7	37
35	Arc Fault Detection Method Based on CZT Low-Frequency Harmonic Current Analysis. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 888-896.	4.7	110
36	Smart Interface Devices for Distributed Generation in Smart Grids: The Case of Islanding. IEEE Sensors Journal, 2017, 17, 7803-7811.	4.7	33

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37	A simplified approach for load flow analysis in MV smart grids based on LV power measurements. , 2017, , .		4
38	NB PLC and Software Defined Networking for Smart Grid Applications. , 2017, , .		2
39	High-Frequency Experimental Characterization and Modeling of Six Pack IGBTs Power Modules. IEEE Transactions on Industrial Electronics, 2016, 63, 6664-6673.	7.9	19
40	A set of indicators for arc faults detection based on low frequency harmonic analysis. , 2016, , .		25
41	Development of a coupling system for medium voltage power line communication in the CENELEC A frequency band. , 2016, , .		4
42	LV Measurement Device Placement for Load Flow Analysis in MV Smart Grids. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 999-1006.	4.7	45
43	An Innovative Measurement Approach for Load Flow Analysis in MV Smart Grids. IEEE Transactions on Smart Grid, 2016, 7, 889-896.	9.0	44
44	Experimental EMF characterization of a secondary substation. , 2015, , .		4
45	High frequency modeling technique for three phase power electronics module. , 2015, , .		4
46	A back to back method for the temperature rise test of prefabricated substations: A case study. , 2015, , .		1
47	Electric and magnetic emission in near field region and thermal behaviour of power module for photovoltaic application. , 2015, , .		4
48	Experimental evaluation of an hybrid communication system architecture for smart grid applications. , 2015, , .		14
49	Rogowski coil current transducer compensation method for harmonic active power error. Measurement: Journal of the International Measurement Confederation, 2015, 63, 240-251.	5.0	16
50	A New Solution for Low-Voltage Distributed Generation Interface Protection System. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2086-2095.	4.7	41
51	Uncertainty evaluation of a Backward/Forward Load Flow algorithm for a MV smart grid. , 2015, , .		6
52	A DAQ-based sampling wattmeter for IEEE Std. 1459-2010 powers measurements. Uncertainty evaluation in nonsinusoidal conditions. Measurement: Journal of the International Measurement Confederation, 2015, 61, 27-38.	5.0	7
53	A Prototypal Architecture of a IEEE 21451 Network for Smart Grid Applications Based on Power Line Communications. IEEE Sensors Journal, 2015, 15, 2460-2467.	4.7	21
54	An interface protection system with power line communication for distributed generators remote control. , 2014, , .		8

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55	Narrowband power line communications for medium voltage Smart Grids. , 2014, , .		10
56	Critical issues and future prospects of the secondary substation in smart grid context. , 2014, , .		4
57	Measurements methodology for the reliability evaluation of intelligent power modules. , 2014, , .		0
58	Experimental investigation on PLC signal crossing of power transformers. , 2014, , .		11
59	Medium Voltage Smart Grid: Experimental Analysis of Secondary Substation Narrow Band Power Line Communication. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 2391-2398.	4.7	30
60	New measurement procedure for load flow evaluation in medium voltage smart grids. , 2013, , .		14
61	Measurement Issues for the Characterization of Medium Voltage Grids Communications. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 2185-2196.	4.7	33
62	Electromagnetic immunity analysis of a new interface device with power line communication for smart grid and energy storage applications. , 2013, , .		6
63	Hybrid passive and communications-based methods for islanding detection in medium and low voltage smart grids. , 2013, , .		20
64	Measurement and communication interfaces for distributed generation in smart grids. , 2013, , .		9
65	On the use of narrow band power line as communication technology for medium and low voltage smart grids. , 2012, , .		23
66	Secondary substation power line communications for medium voltage smart grids. , 2012, , .		10
67	Power-Line Communication in Medium-Voltage System: Simulation Model and Onfield Experimental Tests. IEEE Transactions on Power Delivery, 2012, 27, 62-69.	4.3	47
68	Oil-Filled MV/LV Power-Transformer Behavior in Narrow-Band Power-Line Communication Systems. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 2642-2652.	4.7	43
69	A PC-Based Wattmeter for Accurate Measurements in Sinusoidal and Distorted Conditions: Setup and Experimental Characterization. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1426-1434.	4.7	31
70	Development of a high-accuracy PC-based wattmeter with commercial data acquisition boards. , 2011, , .		4
71	Simulation of a power line communication system in medium and low voltage distribution networks. , 2011, , .		21
72	Current Transformers Effects on the Measurement of Harmonic Active Power in LV and MV Networks. IEEE Transactions on Power Delivery, 2011, 26, 360-368.	4.3	44

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73	Simulation and Laboratory Experimental Tests of a Line to Shield Medium-Voltage Power-Line Communication System. IEEE Transactions on Power Delivery, 2011, 26, 2829-2836.	4.3	32
74	Characterization and Error Compensation of a Rogowski Coil in the Presence of Harmonics. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 1175-1181.	4.7	30
75	Improvement of Hall Effect Current Transducer Metrological Performances in the Presence of Harmonic Distortion. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1091-1097.	4.7	30
76	Model of line to shield power line communication system on a Medium Voltage network. , 2010, , .		20
77	A PC-based wattmeter for high accuracy power measurements. , 2010, , .		16
78	Hall effect current transducer characterization under nonsinusoidal conditions. , 2009, , .		2
79	A Novel Approach to Current Transformer Characterization in the Presence of Harmonic Distortion. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1446-1453.	4.7	73
80	Characterization of Clamp-On Current Transformers Under Nonsinusoidal Conditions. IEEE Transactions on Power Delivery, 2009, 24, 373-380.	4.3	19
81	Characterization of Current Transformers in the Presence of Harmonic Distortion. , 2008, , .		22
82	Frequency response of Measurement Current Transformers. , 2008, , .		33