

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 | 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 |
| 2 | 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 |
| 3 | Compensation of Nonlinearity of Voltage and Current Instrument Transformers. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1322-1332. | 4.7 | 64 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | An Innovative Measurement Approach for Load Flow Analysis in MV Smart Grids. IEEE Transactions on Smart Grid, 2016, 7, 889-896. | 9.0 | 44 |
| 8 | 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 |
| 9 | 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 |
| 10 | A New Solution for Low-Voltage Distributed Generation Interface Protection System. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2086-2095. | 4.7 | 41 |
| 11 | 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 |
| 12 | 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 |
| 13 | Frequency response of Measurement Current Transformers. , 2008, , . | | 33 |
| 14 | Measurement Issues for the Characterization of Medium Voltage Grids Communications. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 2185-2196. | 4.7 | 33 |
| 15 | Smart Interface Devices for Distributed Generation in Smart Grids: The Case of Islanding. IEEE Sensors Journal, 2017, 17, 7803-7811. | 4.7 | 33 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
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| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | A set of indicators for arc faults detection based on low frequency harmonic analysis. , 2016, , . | | 25 |
| 23 | 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 |
| 24 | On the use of narrow band power line as communication technology for medium and low voltage smart grids. , 2012, , . | | 23 |
| 25 | Characterization of Current Transformers in the Presence of Harmonic Distortion. , 2008, , . | | 22 |
| 26 | Simulation of a power line communication system in medium and low voltage distribution networks. , 2011, , . | | 21 |
| 27 | 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 |
| 28 | Model of line to shield power line communication system on a Medium Voltage network. , 2010, , . | | 20 |
| 29 | Hybrid passive and communications-based methods for islanding detection in medium and low voltage smart grids. , 2013, , . | | 20 |
| 30 | 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 |
| 31 | 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 |
| 32 | Characterization of Clamp-On Current Transformers Under Nonsinusoidal Conditions. IEEE Transactions on Power Delivery, 2009, 24, 373-380. | 4.3 | 19 |
| 33 | High-Frequency Experimental Characterization and Modeling of Six Pack IGBTs Power Modules. IEEE Transactions on Industrial Electronics, 2016, 63, 6664-6673. | 7.9 | 19 |
| 34 | Metrological performances of voltage and current instrument transformers in harmonics measurements. , 2018, , . | | 19 |
| 35 | A PC-based wattmeter for high accuracy power measurements. , 2010, , . | | 16 |
| 36 | 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 |

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| 37 | PQ and Harmonic Assessment Issues on Low-Cost Smart Metering Platforms: A Case Study. Sensors, 2020, 20, 6361. | 3.8 | 16 |
| 38 | 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 |
| 39 | New measurement procedure for load flow evaluation in medium voltage smart grids. , 2013, , . | | 14 |
| 40 | Experimental evaluation of an hybrid communication system architecture for smart grid applications. , 2015, , . | | 14 |
| 41 | Li-ion Battery Modeling and State of Charge Estimation Method Including the Hysteresis Effect. Electronics (Switzerland), 2019, 8, 1324. | 3.1 | 11 |
| 42 | Experimental investigation on PLC signal crossing of power transformers. , 2014, , . | | 11 |
| 43 | Secondary substation power line communications for medium voltage smart grids. , 2012, , . | | 10 |
| 44 | Narrowband power line communications for medium voltage Smart Grids. , 2014, , . | | 10 |
| 45 | Measurement and communication interfaces for distributed generation in smart grids. , 2013, , . | | 9 |
| 46 | PQ Metrics Implementation on Low Cost Smart Metering Platforms. A Case Study Analysis. , 2018, , . | | 9 |
| 47 | An interface protection system with power line communication for distributed generators remote control. , 2014, , . | | 8 |
| 48 | 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 |
| 49 | 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 |
| 50 | A Virtual Tool for Load Flow Analysis in a Micro-Grid. Energies, 2020, 13, 3173. | 3.1 | 7 |
| 51 | 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 |
| 52 | Electromagnetic immunity analysis of a new interface device with power line communication for smart grid and energy storage applications. , 2013, , . | | 6 |
| 53 | Uncertainty evaluation of a Backward/Forward Load Flow algorithm for a MV smart grid. , 2015, , . | | 6 |
| 54 | A Line Impedance Calculator Based on a G3 PLC Modem Platform. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10. | 4.7 | 5 |

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|----|--|-----|-----------|
| 55 | Development of a high-accuracy PC-based wattmeter with commercial data acquisition boards. , 2011, , . | | 4 |
| 56 | Critical issues and future prospects of the secondary substation in smart grid context. , 2014, , . | | 4 |
| 57 | Experimental EMF characterization of a secondary substation. , 2015, , . | | 4 |
| 58 | High frequency modeling technique for three phase power electronics module. , 2015, , . | | 4 |
| 59 | Electric and magnetic emission in near field region and thermal behaviour of power module for photovoltaic application. , 2015, , . | | 4 |
| 60 | Development of a coupling system for medium voltage power line communication in the CENELEC A frequency band. , 2016, , . | | 4 |
| 61 | A simplified approach for load flow analysis in MV smart grids based on LV power measurements. , 2017, , . | | 4 |
| 62 | IEEE Std. 1459 power quantities ratio approaches for simplified harmonic emissions assessment. , 2018, , . | | 4 |
| 63 | Measurement uncertainty impact on simplified load flow analysis in MV smart grids. , 2018, , . | | 4 |
| 64 | A New Coupling Solution for G3-PLC Employment in MV Smart Grids. Energies, 2019, 12, 2474. | 3.1 | 4 |
| 65 | Incremental Heuristic Approach for Meter Placement in Radial Distribution Systems. Energies, 2019, 12, 3917. | 3.1 | 3 |
| 66 | Implementation of a PLC Field Analyzer on a G3 Modem Platform. , 2021, , . | | 3 |
| 67 | Hall effect current transducer characterization under nonsinusoidal conditions. , 2009, , . | | 2 |
| 68 | NB PLC and Software Defined Networking for Smart Grid Applications. , 2017, , . | | 2 |
| 69 | A Monitoring and Management System for Energy Storage Integration in Smart Grids. , 2019, , . | | 2 |
| 70 | An interface protection system based on an embedded metrology system platform. Measurement: Sensors, 2021, 18, 100237. | 1.7 | 2 |
| 71 | A PLC based monitoring and remote control architecture for Distributed Generation and Storage systems in LV smart grids. , 2021, , . | | 2 |
| 72 | A back to back method for the temperature rise test of prefabricated substations: A case study. , 2015, , . | | 1 |

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| 73 | Design and Characterization of a New MV PLC Coupler for Smart Electric Energy Systems. , 2018, , . | | 1 |
| 74 | An Experimental Characterization of Time of Arrival Accuracy for Time Synchronization of Medium Voltage Smart Grid Solutions. , 2019, , . | | 1 |
| 75 | A Resilient Distributed Measurement System for Smart Grid Application. Communications in Computer and Information Science, 2020, , 139-153. | 0.5 | 1 |
| 76 | Enhanced islanding detection in smart interface protection systems of distributed generation. , 2021, , . | | 1 |
| 77 | Measurements methodology for the reliability evaluation of intelligent power modules. , 2014, , . | | 0 |
| 78 | An Innovative Coupling Solution for Power Line Communication in MV Electrical Networks. , 2019, , . | | 0 |
| 79 | Implementation and Experimental Tests of a Management System for MV/LV Distribution Grids. , 2019, , . | | 0 |
| 80 | Implementation of a Management System for Prosumer Energy Storage Scheduling in Smart Grids. , 2020, , . | | 0 |
| 81 | Comparison of two different approaches for harmonic distortion sources assessment. , 2021, , . | | 0 |
| 82 | A single-point approach based on nonactive power factor for the assessment of harmonic distortion sources in power systems. , 2022, , . | | 0 |