

Pietro Romano

List of Publications by Year in descending order

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124
papers

1,803
citations

516215

16
h-index

414034

32
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124
all docs

124
docs citations

124
times ranked

939
citing authors

#	ARTICLE	IF	CITATIONS
1	Time Evolution of Partial Discharges in a Dielectric Subjected to the DC Periodic Voltage. Energies, 2022, 15, 2052.	1.6	3
2	A New Approach to Partial Discharge Detection Under DC Voltage: Application to Different Materials. IEEE Electrical Insulation Magazine, 2021, 37, 18-32.	1.1	9
3	The effect of Transient Over Voltages on the Partial Discharges activity in HVDC joints. , 2021, , .		0
4	Effect of Heat Exchange Transient Conditions With Moving Water-Air Interface on Space Charge Accumulation in Undersea HVdc Cables. IEEE Transactions on Industry Applications, 2021, 57, 4528-4536.	3.3	2
5	Partial Discharges in HVDC Cables - The Effect of the Temperature Gradient During Load Transients. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1767-1774.	1.8	9
6	Electric Mobility in Portugal: Current Situation and Forecasts for Fuel Cell Vehicles. Energies, 2021, 14, 7945.	1.6	18
7	Effect of Space charge accumulation inside the thermoplastic insulation of a loaded HVDC model cable. , 2021, , .		2
8	The Effect of the Axial Heat Transfer on Space Charge Accumulation Phenomena in HVDC Cables. Energies, 2020, 13, 4827.	1.6	6
9	A Smart Sensing Method for Real- Time Monitoring of Low Voltage Series-Arc-Fault. , 2020, , .		3
10	From electric mobility to hydrogen mobility: current state and possible future expansions. , 2020, , .		4
11	Space charge accumulation in undersea HVDC cables as function of heat exchange conditions at the boundaries " water-air interface. , 2020, , .		4
12	Reliability of PEA Measurement in Presence of an Air Void Defect. Energies, 2020, 13, 5652.	1.6	6
13	Different Scenarios of Electric Mobility: Current Situation and Possible Future Developments of Fuel Cell Vehicles in Italy. Sustainability, 2020, 12, 564.	1.6	24
14	Dynamic Reconfiguration Systems for PV Plant: Technical and Economic Analysis. Energies, 2020, 13, 2004.	1.6	7
15	Polarity reversal in HVDC joints - the effect of the axial thermal conduction. , 2020, , .		1
16	Investigation on partial discharges in HVDC cables after polarity reversal events. , 2020, , .		0
17	Effect of Polarity Reversal on the Partial Discharge Phenomena. , 2020, , .		1
18	Experimental Investigation on the Performances of Innovative PV Vertical Structures. Photonics, 2019, 6, 86.	0.9	18

#	ARTICLE	IF	CITATIONS
19	The Role of Right Interpretation of Space Charge Distribution for Optimized Design of HVDC Cables. IEEE Transactions on Industry Applications, 2019, 55, 7165-7174.	3.3	8
20	A hierarchical architecture for increasing efficiency of large photovoltaic plants under non-homogeneous solar irradiation. Solar Energy, 2019, 188, 1306-1319.	2.9	15
21	The Industrial Applicability of PEA Space Charge Measurements, for Performance Optimization of HVDC Power Cables. Energies, 2019, 12, 4186.	1.6	15
22	Review of the PEA Method for Space Charge Measurements on HVDC Cables and Mini-Cables. Energies, 2019, 12, 3512.	1.6	28
23	Partial Discharge Detection Using a Spherical Electromagnetic Sensor. Sensors, 2019, 19, 1014.	2.1	36
24	The Effect of the Harmonic Content Generated by AC/DC Modular Multilevel Converters on HVDC Cable Systems. , 2019, , .		0
25	A new approach to calibrate the thermal conditions in space charge measurements on HVDC mini-cables. , 2019, , .		0
26	Deformation of bubbles in silicon gel insulation under an alternating electric field. , 2019, , .		0
27	Electromagnetic Full-Wave Simulation of Partial Discharge Detection in High Voltage AC Cables. , 2019, , .		2
28	Acoustic Wave Behavior in a Specimen Containing an Air Void Defect. , 2019, , .		2
29	Different Measurement Setup Configurations for Space Charge test in Mini Cable Specimens with the PEA Method. , 2019, , .		1
30	The Partial Discharge Behavior of Different Materials Under DC Periodic Stress. , 2019, , .		2
31	Modelling, simulation and characterization of Li-Ion battery cell. , 2019, , .		5
32	Design of Soft Ferrite filters for EMI reduction in Power Conversion Systems. , 2019, , .		1
33	Partial discharges at different voltage waveshapes: Comparison between two different acquisition systems. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 584-593.	1.8	16
34	Piezoelectric Rainfall Energy Harvester Performance by an Advanced Arduino-Based Measuring System. IEEE Transactions on Industry Applications, 2018, 54, 458-468.	3.3	39
35	Partial Discharges Diagnostics Along Medium Voltage Cables. , 2018, , .		1
36	Comparison between Different Dynamic Reconfigurations of Electrical Connections for partially shaded PV Modules. , 2018, , .		2

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37	Partial Discharge Measurements under DC Voltages Containing Harmonics Produced by Power Electronic Devices. , 2018, , .		10
38	Unmanned Aerial Vehicle-Based Non Destructive Diagnostics. , 2018, , .		1
39	The Acoustic Wave Behavior Within the PEA Cell for Space Charge Measurement. , 2018, , .		5
40	Space Charge Measurement Under DC and DC Periodic Waveform. , 2018, , .		7
41	Effect of Acoustic Wave Reflections on Space Charge Measurements with PEA Method. , 2018, , .		6
42	Detection of Partial Discharges at Square Shaped Voltages. , 2018, , .		2
43	Interpretation of PEA Output Signal in a Multilayer Specimen. , 2018, , .		5
44	Wireless partial discharge tracking on cross-linked polyethylene MV and HV cables. IEEE Electrical Insulation Magazine, 2018, 34, 8-17.	1.1	15
45	Pulsed Electro-Acoustic Method for specimens and cables employed in HVDC systems: some feasibility considerations. , 2018, , .		7
46	Experimental investigation on different rainfall energy harvesting structures. , 2018, , .		6
47	A new approach to partial discharge detection under DC voltage. IEEE Electrical Insulation Magazine, 2018, 34, 32-41.	1.1	37
48	An Optimization Device for Series Parallel Connected PV Plants. Lecture Notes in Electrical Engineering, 2017, , 227-236.	0.3	0
49	Increasing efficiency of photovoltaic systems under non-homogeneous solar irradiation using improved Dynamic Programming methods. Solar Energy, 2017, 150, 325-334.	2.9	54
50	The strategies for the diffusion of EVs: Focus on Norway and Italy. , 2017, , .		1
51	Simulation of a single-phase five-level cascaded H-Bridge inverter with multicarrier SPWM B-Spline based modulation techniques. , 2017, , .		8
52	Technical and Economical Evaluation on the Use of Reconfiguration Systems in Some EU Countries for PV Plants. IEEE Transactions on Industry Applications, 2017, 53, 1308-1315.	3.3	37
53	Nanostructured lead acid battery for electric vehicles applications. , 2017, , .		14
54	Partial discharge behavior under single phase half and full-bridge rectifier. , 2017, , .		7

#	ARTICLE	IF	CITATIONS
55	Space charge behavior of different insulating materials employed in AC and DC cable systems. , 2017, , .		12
56	Different Space Charge Behavior of Materials Used in AC and DC Systems. , 2017, , .		8
57	Photovoltaic facade: Comparison of actual technologies. , 2017, , .		0
58	A new technique for partial discharges measurement under DC periodic stress. , 2017, , .		14
59	Partial discharge detection and localization along medium voltage cables. , 2017, , .		1
60	Partial discharges behavior under different rectified waveforms. , 2017, , .		9
61	Wireless Power Transmission for house appliances: A small-scale resonant coupling prototype. , 2016, , .		2
62	Economic evaluation of PV system for EV charging stations: Comparison between matching maximum orientation and storage system employment. , 2016, , .		17
63	Economic evaluation on the use of reconfiguration systems for increase of energy production in PV plants. , 2016, , .		3
64	Measuring rain energy with the employment of "Arduino", 2016, , .		3
65	Experimental analysis with FPGA controller-based of MC PWM techniques for three-phase five level cascaded H-bridge for PV applications. , 2016, , .		33
66	Contributed Review: Review of thermal methods for space charge measurement. Review of Scientific Instruments, 2016, 87, 111501.	0.6	28
67	PD characteristics at square shaped voltages applying two different detecting techniques. , 2016, , .		3
68	Remote voltage synchronization for wireless Partial Discharge diagnostics. , 2016, , .		3
69	Space charges and partial discharges simultaneous measurements under DC stress. , 2016, , .		22
70	Partial discharge of gel insulated high voltage power modules subjected to unconventional voltage waveforms. , 2016, , .		14
71	Overcoming synchronization issues in wireless technology Partial Discharge measurement. , 2016, , .		1
72	Review of space charge measurement systems: acoustic, thermal and optical methods. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 3126-3142.	1.8	105

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73	PV systems in the vertical walls: A comparison of innovative structures. , 2016, , .		4
74	Recharge stations: A review. , 2016, , .		24
75	Comparison on the use of PV systems in the vertical walls. , 2015, , .		3
76	Survey on power increase of power by employment of PV reconfigurator. , 2015, , .		17
77	Economic benefits of the use of a PV plants reconfiguration systems. , 2015, , .		14
78	A low-cost, real-time monitoring system for PV plants based on ATmega 328P-PU microcontroller. , 2015, , .		11
79	Finite-difference time-domain simulation of tower and grounding subjected to lightning. , 2015, , .		1
80	Android tool to evaluate grounding resistance. , 2015, , .		0
81	Local DoS applications with micro wind generation systems. , 2015, , .		0
82	Proof of Concept of an Irradiance Estimation System for Reconfigurable Photovoltaic Arrays. Energies, 2015, 8, 6641-6657.	1.6	30
83	Review of acoustic methods for space charge measurement. , 2015, , .		23
84	How is the spread of the Electric Vehicles?. , 2015, , .		26
85	Design and experimental characterization of a low-cost, real-time, wireless AC monitoring system based on ATmega 328P-PU microcontroller. , 2015, , .		20
86	Finite-Difference Time-Domain Simulation of Towers Cascade Under Lightning Surge Conditions. IEEE Transactions on Industry Applications, 2015, 51, 4917-4923.	3.3	9
87	Electric vehicles impact using renewable energy. , 2015, , .		18
88	Dynamic programming and Munkres algorithm for optimal photovoltaic arrays reconfiguration. Solar Energy, 2015, 122, 347-358.	2.9	82
89	Performance of the glass block in photovoltaic generation. , 2015, , .		3
90	Rainfall Energy Harvester. Advances in Environmental Engineering and Green Technologies Book Series, 2015, , 116-142.	0.3	4

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91	Economical evaluation of ecological benefits of the demand side management. , 2014, , .		33
92	Partial discharges on IGBT modules: Are sinusoidal waveforms sufficient to evaluate behavior?. , 2014, , .		18
93	Piezoelectric model of rainfall energy harvester. , 2014, , .		26
94	An economic study about the installation of PV plants reconfiguration systems in Italy. , 2014, , .		32
95	Reconfigurable electrical interconnection strategies for photovoltaic arrays: A review. Renewable and Sustainable Energy Reviews, 2014, 33, 412-426.	8.2	163
96	Simplified hybrid PD model in voids: Pattern validation. , 2013, , .		17
97	Harvesting rainfall energy by means of piezoelectric transducer. , 2013, , .		37
98	On the harvest of rainfall energy by means of piezoelectric transducer. , 2013, , .		10
99	Performance of the shape of Partial Discharge signal wireless probes. , 2013, , .		12
100	Optimization of photovoltaic energy production through an efficient switching matrix. Journal of Sustainable Development of Energy, Water and Environment Systems, 2013, 1, 227-236.	0.9	65
101	Simplified hybrid PD model in voids. , 2011, , .		19
102	A combined CWT-DWT method using model-based design simulator for partial discharges online detection. , 2009, , .		1
103	Finite difference time domain simulation of earth electrodes soil ionisation under lightning surge condition. IET Science, Measurement and Technology, 2008, 2, 134-145.	0.9	55
104	An improved MSD-based method for PD pattern recognition. , 2007, , .		3
105	Reconfiguration Techniques of Partial Shaded PV Systems for the Maximization of Electrical Energy Production. , 2007, , .		58
106	An improved MSD-based method for PD defects classification. , 2006, , .		2
107	Influence on PD parameters due to voltage conducted disturbances. IEEE Transactions on Dielectrics and Electrical Insulation, 2004, 11, 160-165.	1.8	19
108	On PD mechanisms at high temperature in voids included in an epoxy resin. IEEE Transactions on Dielectrics and Electrical Insulation, 2001, 8, 589-597.	1.8	77

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109	Partial discharge on-line measures in cable's EPR insulation. , 0, , .		1
110	Analysis of partial discharge activity at different temperatures through an heuristic algorithm. , 0, , .		6
111	on investigation of PD aging of epoxy resin under distorted voltage. , 0, , .		3
112	A life model for epoxy resins subjected to PD activity at different temperatures. , 0, , .		7
113	A novel HV system for multi specimens aging tests under partial discharges and temperature. , 0, , .		15
114	Numerical simulation of PD activity in a spherical cavity embedded in the stator winding insulation of an inverter-fed induction motor. , 0, , .		3
115	Optimisation of a numerical model for analysis of partial discharge phenomena in a flat cavity. , 0, , .		6
116	PD performance of dielectric insulations in presence of low frequency conducted disturbances: a life model approach. , 0, , .		0
117	Searching for PD-based indexes able to infer the location of internal defects in insulation. , 0, , .		5
118	Effect of high frequency conducted disturbances on the interturn insulation of an inverter-fed induction motor. , 0, , .		1
119	Electromagnetic radiated field measurements for partial discharge diagnostic. , 0, , .		3
120	Influence on PD parameters due to distorted voltage. , 0, , .		4
121	A novel flexible approach for prediction and on line diagnostic of partial discharge. , 0, , .		1
122	A digital device for the diagnosis of insulation systems. , 0, , .		1
123	A Dynamic Electrical Scheme for the Optimal Reconfiguration of PV Modules under Non-Homogeneous Solar Irradiation. Applied Mechanics and Materials, 0, 197, 768-777.	0.2	18
124	Building Partial Discharge Signal Wireless Probes. , 0, , .		3