Jorge Alfredo Ardila-Rey

List of Publications by Year in descending order

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78 papers

984 citations

394421 19 h-index 501196 28 g-index

80 all docs 80 docs citations

80 times ranked

771 citing authors

#	Article	IF	CITATIONS
1	Baseline-Free Damage Imaging Algorithm Using Spatial Frequency Domain Virtual Time Reversal. IEEE Transactions on Industrial Informatics, 2022, 18, 5043-5054.	11.3	9
2	Oscillating Water Column Geometrical Factors and System Performance: A Review. IEEE Access, 2022, 10, 32104-32122.	4.2	4
3	A CFD Analysis for Novel Close-Ended Deflector for Vertical Water Turbines. Sustainability, 2022, 14, 2790.	3.2	1
4	A Comparative Analysis Applied to the Partial Discharges Identification in Dry-Type Transformers by Hall and Acoustic Emission Sensors. Sensors, 2022, 22, 1716.	3.8	6
5	A Study of Zero Bid Wind Farm for Future Scotland's Energy Demands—A New Approach. Applied Sciences (Switzerland), 2022, 12, 3326.	2.5	O
6	Current Status and Possible Future Applications of Marine Current Energy Devices in Malaysia: A Review. IEEE Access, 2021, 9, 86869-86888.	4.2	14
7	A new technique for separation of partial discharge sources and electromagnetic noise in radiofrequency measurements using energy ratios of different antennas. High Voltage, 2021, 6, 525-530.	4.7	7
8	A New Acoustic-Based Approach for Assessing Induced Adulteration in Bovine Milk. Sensors, 2021, 21, 2101.	3.8	3
9	Mathematical Modelling of a Static Concentrating Photovoltaic: Simulation and Experimental Validation. Applied Sciences (Switzerland), 2021, 11, 3894.	2.5	1
10	Application of the Gaussian Mixture Model to Classify Stages of Electrical Tree Growth in Epoxy Resin. Sensors, 2021, 21, 2562.	3.8	4
11	Application and Suitability of Polymeric Materials as Insulators in Electrical Equipment. Energies, 2021, 14, 2758.	3.1	23
12	Lightning Activity Over Chilean Territory. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034580.	3.3	2
13	Partial Discharge Detection of Transformer Bushing Based on Acoustic Emission and Current Analysis. , $2021, \ldots$		3
14	Development and Implementation of an Anthropomorphic Underactuated Prosthesis with Adaptive Grip. Machines, 2021, 9, 209.	2.2	5
15	Determinant Factors of Electricity Consumption for a Malaysian Household Based on a Field Survey. Sustainability, 2021, 13, 818.	3.2	22
16	Partial Discharge Electrical Tree Growth Identification by Means of Waveform Source Separation Techniques. IEEE Access, 2021, 9, 64665-64675.	4.2	6
17	Development of Hypergraph Based Improved Random Forest Algorithm for Partial Discharge Pattern Classification. IEEE Access, 2021, 9, 96-109.	4.2	11
18	Separation of Partial Discharges Sources and Noise Based on the Temporal and Spectral Response of the Signals. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	9

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19	Partial Discharge Location Identification Using Permutation Entropy Based Instantaneous Energy Features. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	8
20	Static concentrating photovoltaic modelling using MATLAB. Journal of Physics: Conference Series, 2021, 2053, 012003.	0.4	0
21	Development of an Electrical Energy Consumption Model for Malaysian Households, Based on Techno-Socioeconomic Determinant Factors. Sustainability, 2021, 13, 13258.	3.2	2
22	Embodied Energy and Cost Assessments of a Concentrating Photovoltaic Module. Sustainability, 2021, 13, 13916.	3.2	1
23	Partial discharges in electrical trees grown at 0.1 (VLF) and 50 Hz analyzed using PRPD and NLTSA. , 2021, , .		O
24	Analysis of Partial Discharges in Electrical Tree Growth Under Very Low Frequency (VLF) Excitation Through Pulse Sequence and Nonlinear Time Series Analysis. IEEE Access, 2020, 8, 163673-163684.	4.2	9
25	Separation Techniques of Partial Discharges and Electrical Noise Sources: A Review of Recent Progress. IEEE Access, 2020, 8, 199449-199461.	4.2	21
26	A Method for Weather Station Selection Based on Wavelet Squared Coherence for Electric Load Forecasting. IEEE Access, 2020, 8, 197431-197438.	4.2	5
27	Inference of X-Ray Emission From a Plasma Focus Discharge: Comparison Between Characteristic Parameters and Neural Network Analyses. IEEE Access, 2020, 8, 79273-79286.	4.2	4
28	Assessment of the RACPC Performance under Diffuse Radiation for Use in BIPV System. Applied Sciences (Switzerland), 2020, 10, 3552.	2.5	2
29	Effects of Roadside Trees and Road Orientation on Thermal Environment in a Tropical City. Sustainability, 2020, 12, 1053.	3.2	29
30	Life Cycle Assessment of a Rotationally Asymmetrical Compound Parabolic Concentrator (RACPC). Sustainability, 2020, 12, 4750.	3.2	4
31	Renewable Energy Performance of the Green Buildings: Key-Enabler on Useful Consumption Yield. IEEE Access, 2020, 8, 95747-95767.	4.2	1
32	Artificial Generation of Partial Discharge Sources Through an Algorithm Based on Deep Convolutional Generative Adversarial Networks. IEEE Access, 2020, 8, 24561-24575.	4.2	18
33	Effects of Urban Morphology on Microclimate Parameters in an Urban University Campus. Sustainability, 2020, 12, 2962.	3.2	21
34	Lightning Protection Methods for Wind Turbine Blades: An Alternative Approach. Applied Sciences (Switzerland), 2020, 10, 2130.	2.5	5
35	Paving towards Strategic Investment Decision: A SWOT Analysis of Renewable Energy in Bangladesh. Sustainability, 2020, 12, 10674.	3.2	4
36	On the Use of UHF Sensors in the Detection and Characterization of Pulsed Plasma Discharges. Lecture Notes in Electrical Engineering, 2020, , 1367-1376.	0.4	0

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37	Electrical tree growth under harmonic frequencies characterized by partial discharges waveforms. , 2020, , .		2
38	Application of Meta-Heuristic Approaches in the Spectral Power Clustering Technique (SPCT) to Improve the Separation of Partial Discharge and Electrical Noise Sources. IEEE Access, 2019, 7, 110580-110593.	4.2	4
39	On the Relationship Between the Electromagnetic Burst and Inductive Sensor Measurement of a Pulsed Plasma Accelerator. IEEE Access, 2019, 7, 133043-133057.	4.2	5
40	Using Static Concentrator Technology to Achieve Global Energy Goal. Sustainability, 2019, 11, 3056.	3.2	15
41	Photovoltaic Expansion-Limit through a Net Energy Metering Scheme for Selected Malaysian Public Hospitals. Sustainability, 2019, 11, 5131.	3.2	6
42	Hard X-Ray Emission Detection Using Deep Learning Analysis of the Radiated UHF Electromagnetic Signal From a Plasma Focus Discharge. IEEE Access, 2019, 7, 74899-74908.	4.2	12
43	A chromatic technique for structural damage detection under noise effects based on impedance measurements. Measurement Science and Technology, 2019, 30, 075601.	2.6	9
44	Analysis of Piezoelectric Sensors in Adulteration of Bovine Milk Using the Chromatic Technique. Proceedings (mdpi), 2019, 4, 38.	0.2	2
45	3D characterization of electrical tree structures. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 220-228.	2.9	34
46	Performance Evaluation of Unconcentrated Photovoltaic-Thermoelectric Generator Hybrid System under Tropical Climate. Sustainability, 2019, 11, 6192.	3.2	12
47	Thunderstorm days over Chilean territory based on WWLLN data. , 2019, , .		2
48	Simulation of Reverse Electrical Trees using Cellular Automata. , 2019, , .		O
49	Electrical Tree Growth Under Very Low Frequency (VLF) Voltage Excitation. , 2018, , .		3
50	Simulating the Annual Energy Yield of a Rotationally Asymmetrical Optical Concentrator. , $2018, \ldots$		0
51	Behavior of an Inductive Loop Sensor in the Measurement of Partial Discharge Pulses with Variations in Its Separation from the Primary Conductor. Sensors, 2018, 18, 2324.	3.8	15
52	A Cost-Effective Methodology for Sizing Solar PV Systems for Existing Irrigation Facilities in Chile. Energies, 2018, 11, 1853.	3.1	20
53	Annual Prediction Output of an RADTIRC-PV Module. Energies, 2018, 11, 544.	3.1	2
54	Partial Discharge Spectral Characterization in HF, VHF and UHF Bands Using Particle Swarm Optimization. Sensors, 2018, 18, 746.	3.8	21

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55	Robust Condition Assessment of Electrical Equipment with One Class Support Vector Machines Based on the Measurement of Partial Discharges. Energies, 2018, 11, 486.	3.1	13
56	Nuclear Energy Development in Bangladesh: A Study of Opportunities and Challenges. Energies, 2018, 11, 1672.	3.1	35
57	Polymeric Materials for Conversion of Electromagnetic Waves from the Sun to Electric Power. Polymers, 2018, 10, 307.	4.5	9
58	A Comparison of Inductive Sensors in the Characterization of Partial Discharges and Electrical Noise Using the Chromatic Technique. Sensors, 2018, 18, 1021.	3.8	29
59	Evaluation of Low Cost Piezoelectric Sensors for the Identification of Partial Discharges Evolution. Proceedings (mdpi), 2018, 4, .	0.2	4
60	Partial discharges and noise separation using spectral power ratios and genetic algorithms. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 31-38.	2.9	17
61	An Ensemble-Boosting Algorithm for Classifying Partial Discharge Defects in Electrical Assets. Machines, 2017, 5, 18.	2.2	12
62	Wind Power Potentials in Cameroon and Nigeria: Lessons from South Africa. Energies, 2017, 10, 443.	3.1	21
63	Electromagnetic Burst Measurement System Based on Low Cost UHF Dipole Antenna. Energies, 2017, 10, 1415.	3.1	7
64	An Evaluation of Meta-Heuristic Approaches for Improve the Separation of Multiple Partial Discharge Sources and Electrical Noise. , 2017, , .		4
65	Comparison of the Performance of Artificial Neural Networks and Fuzzy Logic for Recognizing Different Partial Discharge Sources. Energies, 2017, 10, 1060.	3.1	32
66	On the Use of Monopole Antennas for Determining the Effect of the Enclosure of a Power Transformer Tank in Partial Discharges Electromagnetic Propagation. Sensors, 2016, 16, 148.	3.8	42
67	Artificial Neural Network Application for Partial Discharge Recognition: Survey and Future Directions. Energies, 2016, 9, 574.	3.1	54
68	Software simulation and experimental characterisation of a rotationally asymmetrical concentrator under direct and diffuse solar radiation. Energy Conversion and Management, 2016, 122, 223-238.	9.2	10
69	Multiple partial discharge source discrimination with multiclass support vector machines. Expert Systems With Applications, 2016, 55, 417-428.	7.6	46
70	A new monitoring and characterization system of partial discharges based on the analysis of the spectral power. Ingenieria E Investigacion, 2015, 35, 13-20.	0.4	2
71	A Validation of the Spectral Power Clustering Technique (SPCT) by Using a Rogowski Coil in Partial Discharge Measurements. Sensors, 2015, 15, 25898-25918.	3.8	12
72	Separation of sources in radiofrequency measurements of partial discharges using time–power ratio maps. ISA Transactions, 2015, 58, 389-397.	5.7	40

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73	Automatic selection of frequency bands for the power ratios separation technique in partial discharge measurements: part II, PD source recognition and applications. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2293-2301.	2.9	16
74	Automatic selection of frequency bands for the power ratios separation technique in partial discharge measurements: part I, fundamentals and noise rejection in simple test objects. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2284-2291.	2.9	20
75	Inductive Sensor Performance in Partial Discharges and Noise Separation by Means of Spectral Power Ratios. Sensors, 2014, 14, 3408-3427.	3.8	27
76	Partial discharge and noise separation by means of spectral-power clustering techniques. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1436-1443.	2.9	86
77	Partial discharge source recognition by means of clustering of spectral power ratios. Measurement Science and Technology, 2013, 24, 125605.	2.6	13
78	An Application of Wavelet Analysis to Assess Partial Discharge Evolution by Acoustic Emission Sensor. , 0, , .		5