

# Ricardo Manuel Arias Velásquez

## List of Publications by Year in descending order

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57  
papers

927  
citations

394286  
19  
h-index

501076  
28  
g-index

57  
all docs

57  
docs citations

57  
times ranked

486  
citing authors

#	ARTICLE	IF	CITATIONS
1	Forecast and evaluation of COVID-19 spreading in USA with reduced-space Gaussian process regression. Chaos, Solitons and Fractals, 2020, 136, 109924.	2.5	73
2	The need of creating a new nominal creepage distance in accordance with heaviest pollution 500 kV overhead line insulators. Engineering Failure Analysis, 2018, 86, 21-32.	1.8	52
3	Principal Components Analysis and Adaptive Decision System Based on Fuzzy Logic for Power Transformer. Fuzzy Information and Engineering, 2017, 9, 493-514.	1.0	51
4	Reliability, availability and maintainability study for failure analysis in series capacitor bank. Engineering Failure Analysis, 2018, 86, 158-167.	1.8	40
5	Corrosive Sulphur effect in power and distribution transformers failures and treatments. Engineering Failure Analysis, 2018, 92, 240-267.	1.8	38
6	Gaussian approach for probability and correlation between the number of COVID-19 cases and the air pollution in Lima. Urban Climate, 2020, 33, 100664.	2.4	37
7	Insulation failure caused by special pollution around industrial environments. Engineering Failure Analysis, 2019, 102, 123-135.	1.8	36
8	Ruptures in overhead ground wire " Transmission line 220 kV. Engineering Failure Analysis, 2018, 87, 1-14.	1.8	34
9	Life estimation of shunt power reactors considering a failure core heating by floating potentials. Engineering Failure Analysis, 2018, 86, 142-157.	1.8	31
10	Root cause analysis improved with machine learning for failure analysis in power transformers. Engineering Failure Analysis, 2020, 115, 104684.	1.8	31
11	Bushing failure in power transformers and the influence of moisture with the spectroscopy test. Engineering Failure Analysis, 2018, 94, 300-312.	1.8	30
12	Knowledge management in two universities before and during the COVID-19 effect in Peru. Technology in Society, 2021, 64, 101479.	4.8	30
13	Converting data into knowledge for preventing failures in power transformers. Engineering Failure Analysis, 2019, 101, 215-229.	1.8	29
14	Current transformer failure caused by electric field associated to circuit breaker and pollution in 500 kV substations. Engineering Failure Analysis, 2018, 92, 163-181.	1.8	28
15	Electrical Assessment by Lightning Phenomenon in Power Lines of Double Circuit. IEEE Latin America Transactions, 2016, 14, 2217-2225.	1.2	27
16	Support vector machine and tree models for oil and Kraft degradation in power transformers. Engineering Failure Analysis, 2021, 127, 105488.	1.8	25
17	Circuit breakers 500 kV degradation in substation reactors caused by inductive current. Engineering Failure Analysis, 2018, 90, 64-81.	1.8	23
18	Failures in overhead lines grounding system and a new improve in the IEEE and national standards. Engineering Failure Analysis, 2019, 100, 103-118.	1.8	22

#	ARTICLE	IF	CITATIONS
19	Reliability model for switchgear failure analysis applied to ageing. Engineering Failure Analysis, 2019, 101, 36-60.	1.8	21
20	Model for failure analysis for overhead lines with distributed parameters associated to atmospheric discharges. Engineering Failure Analysis, 2019, 100, 406-427.	1.8	19
21	Snubber resistor influence in the thyristor valves failure on the static VAR compensator. Engineering Failure Analysis, 2018, 89, 150-176.	1.8	18
22	Methodology for failure analysis in shunt reactor by electromagnetic influence caused by high vibration in overload condition. Engineering Failure Analysis, 2019, 104, 589-608.	1.8	17
23	Temporal and spatial analysis of traffic " Related pollutant under the influence of the seasonality and meteorological variables over an urban city in Peru. Heliyon, 2020, 6, e04029.	1.4	17
24	Harmonic failure in the filter of Static Var Compensator. Engineering Failure Analysis, 2020, 107, 104207.	1.8	15
25	Secondary Arc and Critical Time of Fault Clearance in Overhead Lines. IEEE Latin America Transactions, 2018, 16, 859-868.	1.2	14
26	Root cause analysis for shunt reactor failure in 500kV power system. Engineering Failure Analysis, 2019, 104, 1157-1173.	1.8	14
27	Improvement in the design of power oil-filled reactors to avoid faults of seismic origin. Engineering Failure Analysis, 2019, 97, 416-433.	1.8	14
28	Low-cost image analysis with convolutional neural network for herpes zoster. Biomedical Signal Processing and Control, 2022, 71, 103250.	3.5	14
29	Root cause analysis for inverters in solar photo-voltaic plants. Engineering Failure Analysis, 2020, 118, 104856.	1.8	13
30	New methodology for design and failure analysis of underground transmission lines. Engineering Failure Analysis, 2020, 115, 104604.	1.8	12
31	Expert system for power transformer diagnosis. , 2017, , .		11
32	Dynamic model for transmission lines maximum disconnection time on wind farm. Ain Shams Engineering Journal, 2021, 12, 1749-1761.	3.5	11
33	Performance improvement in long overhead lines associated to single-phase faults due to atmospheric discharges. Engineering Failure Analysis, 2019, 105, 347-372.	1.8	9
34	Root cause analysis methodology for circuit breaker associated to GIS. Engineering Failure Analysis, 2020, 115, 104680.	1.8	9
35	Development of a multiple regression model to calibrate a low-cost sensor considering reference measurements and meteorological parameters. Environmental Monitoring and Assessment, 2020, 192, 498.	1.3	8
36	Generation of clean water in dry deserts based on photo-voltaic solar plants. Ain Shams Engineering Journal, 2022, 13, 101801.	3.5	8

#	ARTICLE	IF	CITATIONS
37	Magnetically controlled reactors design for weak grids. Ain Shams Engineering Journal, 2021, 12, 1183-1195.	3.5	7
38	Robot unit for cost and time balance using automatic inspection on overhead lines. , 2016, , .		6
39	Methodology for an automatic license plate recognition system using Convolutional Neural Networks for a Peruvian case study. IEEE Latin America Transactions, 2022, 20, 1032-1039.	1.2	6
40	Health Index for Transformer Condition Assessment. IEEE Latin America Transactions, 2018, 16, 2843-2849.	1.2	4
41	Explosion of power capacitors in a change of transformers with reactive power compensation. Engineering Failure Analysis, 2019, 106, 104181.	1.8	4
42	Implementation of knowledge management in energy companies. , 2017, , .		3
43	Methodology for Overhead Line Conductor Remaining Life Aging infrastructure and asset management. , 2018, , .		3
44	Failure analysis and dispatch optimization using phasor measurement units. Engineering Failure Analysis, 2021, 121, 105157.	1.8	3
45	Early detection of faults and stall effects associated to wind farms. Sustainable Energy Technologies and Assessments, 2021, 47, 101441.	1.7	3
46	Structures in Power lines and ice overload on cables. , 2020, , .		2
47	The Magnetically Controlled Reactor Applied to Peruvian Power System. IEEE Latin America Transactions, 2020, 18, 1785-1792.	1.2	2
48	Algorithm and framework for tower fault caused by ice overload. Engineering Failure Analysis, 2021, 121, 105126.	1.8	1
49	Adaptive wavelet neural network for short-term wind farm forecast. , 2021, , .		1
50	E-mobility and PV Solar challenge in Peruvian radial distribution feeders. , 2020, , .		1
51	Methodology for improvement protection systems performance associated to overhead lines. IEEE Latin America Transactions, 2021, 19, 474-480.	1.2	0
52	Conditions monitoring of electric motors in industrial field: A systematic review. , 2021, , .		0
53	Yaw alignment evaluation with mathematical models for wind farms. , 2021, , .		0
54	Systematic review for determining the design associated to green electrical building in commercial sites. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
55	Clustering analysis for partial discharge detection in oil reactors. , 2021, , .		0
56	Topological Inverter Design Applied to Solar PV Plant: Systematic Review. , 2021, , .		0
57	Reliability process for photo-voltaic solar plants evaluation. , 2021, , .		0