

Norhafiz Azis

List of Publications by Year in descending order

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Version: 2024-02-01

136
papers

1,362
citations

393982

19
h-index

476904

29
g-index

138
all docs

138
docs citations

138
times ranked

947
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the impact of a standard lightning impulse on the structure of an 11/0.415 kV distribution transformer. <i>Electric Power Systems Research</i> , 2022, 202, 107588.	2.1	1
2	Partial Discharge Localization in Oil through Acoustic Emission Technique Utilizing Fuzzy Logic. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2022, , 1-1.	1.8	1
3	The Influence of the Partial Discharge Physical Processes Parameter on Partial Discharge Magnitude of Spherical Cavity. , 2022, , .		0
4	Axial and Radial Force Distributions Computation in Disc-Type Winding Under Switching Surge. , 2022, , .		0
5	Classification of Fault and Stray Gassing in Transformer by Using Duval Pentagon and Machine Learning Algorithms. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 14355-14364.	1.7	0
6	Development of Stand-Alone DC Energy Datalogger for Off- Grid PV System Application Based on Microcontroller. <i>Pertanika Journal of Science and Technology</i> , 2022, 30, 185-199.	0.3	0
7	New perturb and observe algorithm based on trapezoidal rule: Uniform and partial shading conditions. <i>Energy Conversion and Management</i> , 2022, 264, 115738.	4.4	13
8	The Effect of Interfacial Zone Due to Nanoparticle-Surfactant Interaction on Dielectric Properties of Vegetable Oil Based Nanofluids. <i>IEEE Access</i> , 2021, 9, 107033-107045.	2.6	18
9	Statistical Analysis of AC Dielectric Strength for Palm Oil under the Influence of Moisture. <i>Pertanika Journal of Science and Technology</i> , 2021, 29, .	0.3	2
10	Bioelectricity Harvesting at Aquaponics System: Current and Future Challenges. , 2021, , .		0
11	Experimental Study on the Partial Discharge Characteristics of Palm Oil and Coconut Oil Based Al ₂ O ₃ Nanofluids in the Presence of Sodium Dodecyl Sulfate. <i>Nanomaterials</i> , 2021, 11, 786.	1.9	9
12	Application of Statistical Distribution Models to Predict Health Index for Condition-Based Management of Transformers. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2728.	1.3	9
13	Prediction of a Transformer's Loading and Ambient Temperature based on SARIMA Approach for Hot-Spot Temperature and Loss-Of-Life Analyses. , 2021, , .		1
14	Investigation on the Relationship between Failure Rates and Health Index of Distribution Transformer Population. , 2021, , .		2
15	FRA Indicator Limit for Faulty Winding Assessment in Rotating Machine. , 2021, , .		4
16	Investigation on Partial Discharge Localization in Oil Based on Time of Arrival Method. , 2021, , .		2
17	Nanoparticles Application in High Voltage Insulation Systems. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2021, 28, 1380-1399.	1.8	14
18	Performance analysis of thermoelectric generator implemented on non-uniform heat distribution of photovoltaic module. <i>Energy Reports</i> , 2021, 7, 2379-2387.	2.5	21

#	ARTICLE	IF	CITATIONS
19	Investigation of the Effect of Sonication Time on Dispersion Stability, Dielectric Properties, and Heat Transfer of Graphene Based Green Nanofluids. IEEE Access, 2021, 9, 50607-50623.	2.6	27
20	Failure Rate Estimation for Transformer Population based on Health Index through Markov Model Approach. Pertanika Journal of Science and Technology, 2021, 29, .	0.3	1
21	Investigation of Kenaf Paper in the Presence of PVA for Transformers Application. Materials, 2020, 13, 5002.	1.3	2
22	A Novel Hybrid Approach for Maximizing the Extracted Photovoltaic Power under Complex Partial Shading Conditions. Sustainability, 2020, 12, 5786.	1.6	10
23	Extraction of winding parameters for 33/11 kV, 30 MVA transformer based on finite element method for frequency response modelling. PLoS ONE, 2020, 15, e0236409.	1.1	7
24	Charging Platform of Chess-Pad Configuration for Unmanned Aerial Vehicle (UAV). Applied Sciences (Switzerland), 2020, 10, 8365.	1.3	1
25	Development of Graphene Oxide-Based Nonedible Cottonseed Nanofluids for Power Transformers. Materials, 2020, 13, 2569.	1.3	31
26	An Enhanced Adaptive Perturb and Observe Technique for Efficient Maximum Power Point Tracking Under Partial Shading Conditions. Applied Sciences (Switzerland), 2020, 10, 3912.	1.3	29
27	Pre-Breakdown Streamer Propagation and Positive Lightning Breakdown Characteristics of Palm Oil Impregnated Aged Pressboard. IEEE Access, 2020, 8, 58836-58844.	2.6	2
28	Investigation of the Dielectric and Thermal Properties of Non-Edible Cottonseed Oil by Infusing h-BN Nanoparticles. IEEE Access, 2020, 8, 76204-76217.	2.6	37
29	Effect of surfactants on the lightning breakdown voltage of palm oil and coconut oil based Al ₂ O ₃ nanofluids. Nanotechnology, 2020, 31, 425708.	1.3	7
30	Examination on the physical properties of untreated kenaf insulation paper at different beating degrees. Indonesian Journal of Electrical Engineering and Computer Science, 2020, 17, 759.	0.7	1
31	Temperature distribution analysis of monocrystalline photovoltaic panel for Photovoltaic-Thermoelectric generator (PV-TEG) hybrid application. Indonesian Journal of Electrical Engineering and Computer Science, 2020, 17, 858.	0.7	3
32	Development of integrated loose fruit collector machine for oil palm plantations. Bulletin of Electrical Engineering and Informatics, 2020, 9, .	0.6	0
33	Improvement in energy conversion for unmanned aerial vehicle charging pad. Indonesian Journal of Electrical Engineering and Computer Science, 2020, 17, 767.	0.7	1
34	PV system sizing to cover the Electricity shortage in a Residential quarter in Iraq. , 2020, , .		2
35	Composite Trapezoidal Rule-based maximum power point tracking algorithm for photovoltaic systems under complex shading conditions. , 2020, , .		3
36	Optimal Placement of PMU for Complete Observability of Power System Considering Zero Injection and Islanding Condition. , 2020, , .		1

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37	Numerical Modelling for Natural Oil Convection of Non-Guided Winding Cooling Arrangement. CFD Letters, 2020, 12, 54-67.	0.4	1
38	Effect of shield placement for transient voltage mitigation due to switching surges in a 33/11 kV transformer windings. PLoS ONE, 2020, 15, e0240368.	1.1	0
39	Frequency response analysis technique for induction motor short circuit faults detection. International Journal of Power Electronics and Drive Systems, 2020, 11, 1653.	0.5	4
40	Phase to phase fault detection of 3-phase induction motor using FRA technique. International Journal of Power Electronics and Drive Systems, 2020, 11, 1241.	0.5	7
41	Effect of molecular structure on oxidative degradation of ester based transformer oil. Tribology International, 2019, 140, 105852.	3.0	29
42	Lightning Surge on the DC and AC Side of Solar PV System. , 2019, , .		4
43	Comparative Analysis of ACSR and ACCC Conductors on Corona Effect for Lightning Surge Studies. , 2019, , .		1
44	Impact of Fe ₃ O ₄ , CuO and Al ₂ O ₃ on the AC Breakdown Voltage of Palm Oil and Coconut Oil in the Presence of CTAB. Energies, 2019, 12, 1605.	1.6	18
45	Investigation on the Resonant Oscillations in an 11 kV Distribution Transformer under Standard and Chopped Lightning Impulse Overvoltages with Different Shield Placement Configurations. Energies, 2019, 12, 1466.	1.6	4
46	Effects of Molecular Structure on the Physical, Chemical, and Electrical Properties of Ester-Based Transformer Insulating Liquids. JAOCS, Journal of the American Oil Chemists' Society, 2019, 96, 607-616.	0.8	16
47	Structural Design of Cartesian Vacuum System for Loose Fruit Collector (LFC) Machine. , 2019, , .		1
48	Loose Fruit Recognition System With Implementation Of SURF Feature Extraction Method. , 2019, , .		0
49	New Optimization Technique to Design the Core of Three-Phase Transformer. , 2019, , .		2
50	Investigation on the Effect of Moisture on AC Breakdown Voltage of Refined, Bleached, and Deodorized Palm Oil. , 2019, , .		2
51	Microcontroller Based DC Energy Logger for Off-Grid PV System Application. , 2019, , .		1
52	Effects of palm-based trimethylolpropane ester/mineral oil blending on dielectric properties and oxidative stability of transformer insulating liquid. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1771-1778.	1.8	14
53	Modeling frequency response of transformer winding to investigate the influence of RLC. Indonesian Journal of Electrical Engineering and Computer Science, 2019, 14, 219.	0.7	9
54	Hybrid Systems for Robotic Navigations. Journal of Advanced Research in Dynamical and Control Systems, 2019, 11, 167-173.	0.3	0

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55	Adaptive ANN based differential protective relay for reliable power transformer protection operation during energisation. IAES International Journal of Artificial Intelligence, 2019, 8, 307.	0.6	4
56	A new approach of core structure model for 3-phase distribution transformer. International Transactions on Electrical Energy Systems, 2018, 28, e2572.	1.2	6
57	Lightning protection on photovoltaic systems: A review on current and recommended practices. Renewable and Sustainable Energy Reviews, 2018, 82, 1611-1619.	8.2	55
58	Investigation on the Effect of Beating on the Physical and Mechanical Properties of Untreated Kenaf Based Insulation Paper. , 2018, , .		1
59	Investigation on the Transient Voltage in a 11 kV Transformer Under Lightning Surges. , 2018, , .		0
60	Efficient Charging Pad for Unmanned Aerial Vehicle Based on Direct Contact. , 2018, , .		8
61	High Efficiency Portable Solar Generator utilizing Optimum Solar Panel Orientation. , 2018, , .		3
62	Photovoltaic Panel Temperature and Heat Distribution Analysis for Thermoelectric Generator Application. , 2018, , .		6
63	Estimation of Transformers Health Index Based On Condition Parameter Factor and Hidden Markov Model. , 2018, , .		5
64	Lightning Breakdown Voltage Evaluation of Palm Oil and Coconut Oil as Transformer Oil under Quasi-Uniform Field Conditions. Energies, 2018, 11, 2676.	1.6	16
65	Effects of different types of surfactants on AC breakdown voltage of refined, bleached and deodorized palm oil based CuO nanofluids. , 2018, , .		4
66	Influence of Electrode Geometry on the Lightning Impulse Breakdown Voltage of Palm Oil. , 2018, , .		7
67	Investigation of the Effect of Winding Clamping Structure on Frequency Response Signature of 11 kV Distribution Transformer. Energies, 2018, 11, 2307.	1.6	10
68	Pre-breakdown streamer propagation and breakdown characteristics of refined bleached and deodorized palm oil under lightning impulse voltage. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1614-1620.	1.8	27
69	On the Effect of Surge Protection Devices (SPDs) Placement for Grid-connected Solar PV Farm. , 2018, , .		6
70	Effect of RTV Coating Material on Electric Field Distribution and Voltage Profiles on Polymer Insulator under Lightning Impulse. , 2018, , .		7
71	Effect of Pre-Determined Maintenance Repair Rates on the Health Index State Distribution and Performance Condition Curve Based on the Markov Prediction Model for Sustainable Transformers Asset Management Strategies. Sustainability, 2018, 10, 3399.	1.6	8
72	Ageing Study of Palm Oil and Coconut Oil in the Presence of Insulation Paper for Transformers Application. Materials, 2018, 11, 532.	1.3	16

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73	A Maintenance Cost Study of Transformers Based on Markov Model Utilizing Frequency of Transition Approach. <i>Energies</i> , 2018, 11, 2006.	1.6	7
74	Application of Markov Model to Estimate Individual Condition Parameters for Transformers. <i>Energies</i> , 2018, 11, 2114.	1.6	9
75	A Case Study on 500 kV Line Performance Related to Lightning in Malaysia. <i>IEEE Transactions on Power Delivery</i> , 2018, 33, 2180-2186.	2.9	22
76	Dissolved Gas Analysis (DGA) of natural ester oils under arcing faults. <i>Journal of Fundamental and Applied Sciences</i> , 2018, 9, 105.	0.2	1
77	Transformers Health Index Assessment Based on Neural-Fuzzy Network. <i>Energies</i> , 2018, 11, 710.	1.6	22
78	Physiochemical and Electrical Properties of Refined, Bleached and Deodorized Palm Oil under High Temperature Ageing for Application in Transformers. <i>Energies</i> , 2018, 11, 1583.	1.6	6
79	Prototype analyses of automated dropper system for electric power generation. , 2018, , .		0
80	Palm-Based Neopentyl Glycol Diester: A Potential Green Insulating Oil. <i>Protein and Peptide Letters</i> , 2018, 25, 171-179.	0.4	8
81	Design and Experimental Results of Universal Electric Vehicle Charger Using DSP. <i>Telkomnika (Telecommunication Computing Electronics and Control)</i> , 2018, 16, 1435.	0.6	2
82	Automated positioning dual-axis solar tracking system with precision elevation and azimuth angle control. <i>Energy</i> , 2017, 124, 160-170.	4.5	98
83	Evolution of transformer health index in the form of mathematical equation. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 76, 687-700.	8.2	54
84	Quadcopter sensing system for risky area. , 2017, , .		4
85	Ageing effect of vegetable oils impregnated paper in transformer application. , 2017, , .		10
86	Investigation on the electrical properties of palm oil and coconut oil based TiO ₂ nanofluids. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017, 24, 3432-3442.	1.8	35
87	Dissolved gas analysis (DGA) of vegetable oils under electrical stress. , 2017, , .		9
88	Investigation on AC breakdown of vegetable oils with insulated electrodes. , 2017, , .		5
89	Conceptual design of hybrid photovoltaic-thermoelectric generator (PV/TEG) for Automated Greenhouse system. , 2017, , .		10
90	Design and Development of Three Levels Universal Electric Vehicle Charger Based on Integration of VOC and SPWM Techniques. <i>Journal of Computational and Theoretical Nanoscience</i> , 2017, 14, 4674-4685.	0.4	8

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91	Estimation of Transformers Health Index Based on the Markov Chain. <i>Energies</i> , 2017, 10, 1824.	1.6	28
92	A Simplified Top-Oil Temperature Model for Transformers Based on the Pathway of Energy Transfer Concept and the Thermal-Electrical Analogy. <i>Energies</i> , 2017, 10, 1843.	1.6	17
93	Lightning Surge Analysis on a Large Scale Grid-Connected Solar Photovoltaic System. <i>Energies</i> , 2017, 10, 2149.	1.6	40
94	Unmanned Aerial Vehicle Quadcopter: A Review. <i>Journal of Computational and Theoretical Nanoscience</i> , 2017, 14, 5663-5675.	0.4	14
95	Effects of RTV coating on the electrical performance of polymer insulator under lightning impulse voltage condition. <i>PLoS ONE</i> , 2017, 12, e0187892.	1.1	8
96	New technique for decreasing of total harmonic distortion of three-phases bridge rectifier by using the method of harmonic injection. , 2016, , .		3
97	Analysis on magnetic flux density and core loss for hexagonal and butt-lap core joint transformers. , 2016, , .		6
98	Pattern investigation for landfill of methane gas concentration measurement. , 2016, , .		1
99	Variations in return stroke velocity and its effect on the return stroke current along lightning channel. , 2016, , .		1
100	On the effect of lightning on a solar photovoltaic system. , 2016, , .		19
101	Considering the effects of a RTV coating to improve electrical insulation against lightning. , 2016, , .		11
102	Characteristics of fulgurite-like structures under HV conditions: Effects on electrical earthing systems. , 2016, , .		4
103	Effect of soil resistivity on magnetic field in the case of lightning strike to a tall structure. , 2016, , .		0
104	On the performance of a polycrystalline PV panel under different impulse voltages and temperatures. , 2016, , .		3
105	Development of palm-based neopentyl glycol diester as dielectric fluid and its thermal aging performance. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 2051-2058.	1.8	30
106	The effect of polarity on the lightning breakdown voltages of palm oil and coconut oil under a non-uniform field for transformers application. <i>Industrial Crops and Products</i> , 2016, 89, 250-256.	2.5	19
107	Evaluation on the Lightning Breakdown Voltages of Palm Oil and Coconut Oil under Non-Uniform Field at Small Gap Distances. <i>Journal of Electrical Engineering and Technology</i> , 2016, 11, 184-191.	1.2	17
108	Investigation on the Dielectric, Physical and Chemical Properties of Palm Oil and Coconut Oil under Open Thermal Ageing Condition. <i>Journal of Electrical Engineering and Technology</i> , 2016, 11, 690-698.	1.2	16

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109	Effect of temperature on a poly-crystalline solar panel in large scale solar plants in Malaysia. , 2015, , .		8
110	Dissolved gas analysis of transformers based on rough set and fuzzy logic methods. , 2015, , .		6
111	A study on the AC breakdown voltages of as-received palm oil and coconut oil under presence of TiO ₂ . , 2015, , .		5
112	Considering the effects of a cross-arm on a contaminated polymer insulator at different angles. , 2015, , .		4
113	Consideration of Lightning Current along a Tall Structure in the Presence of Horizontal Arrangement Grounding. Applied Mechanics and Materials, 2015, 793, 34-38.	0.2	0
114	Assessment on the AC breakdown voltages of liquid insulation system. , 2015, , .		0
115	Effect of the grounding system on the lightning current profile along a tall structure. IET Science, Measurement and Technology, 2015, 9, 717-727.	0.9	4
116	The effect of temperature on a mono-crystalline solar PV panel. , 2015, , .		31
117	Investigation on self energized automated multi levels car parking system. , 2015, , .		2
118	Lightning study and experience on the first 500kV transmission line arrester in Malaysia. , 2014, , .		4
119	Effect of soil resistivity on the lightning current along tall towers. , 2014, , .		2
120	Experience and long term performance of 132kV overhead lines gapless-type surge arrester. , 2014, , .		5
121	Continuous monitoring on 132kV line in reducing flashovers due to lightning. , 2014, , .		1
122	Investigation on the lightning breakdown voltage of Palm Oil and Coconut Oil under non-uniform field. , 2014, , .		3
123	Investigation on the AC breakdown voltage of RBDPO Olein. , 2014, , .		11
124	Effect of the grounding system arrangement on the lightning current along tall structures. , 2014, , .		2
125	Examination on the lightning breakdown strength of biodegradable oil under quasi-uniform field. , 2014, , .		7
126	A study on the dielectric properties of Palm Oil and Coconut Oil. , 2014, , .		19

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127	Ageing assessment of transformer paper insulation through post mortem analysis. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 845-853.	1.8	31
128	Modelling of lightning current in the case of striking to a tall structure. , 2014, , .		11
129	Steady state performance of improvised ufer grounding practice. , 2014, , .		4
130	Suitability of Palm Based Oil as Dielectric Insulating Fluid in Transformers. Journal of Electrical Engineering and Technology, 2014, 9, 662-669.	1.2	53
131	Operational condition assessment of in-service distribution transformers. , 2012, , .		18
132	Examining acceptable Dissolved Gas Analysis level of in-service transformers. , 2012, , .		3
133	A Study on the Dielectric Properties of RBDPO Olein under Low Temperature Thermal Ageing. Applied Mechanics and Materials, 0, 793, 14-18.	0.2	2
134	Effect of Particles on the AC Breakdown Voltage of Palm Oil and Coconut Oil. Applied Mechanics and Materials, 0, 793, 70-74.	0.2	6
135	A Study on the Lightning Impulse Breakdown Voltages of Palm Oil and Coconut Oil by Different Methods. Applied Mechanics and Materials, 0, 793, 9-13.	0.2	5
136	The Behaviour of Three Phase Three- Leg 11KV Transformer Core Type Design Under Sinusoidal and Non-Sinusoidal Operating Conditions for Different Core Materials. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	1