

Ahmed Abu-Siada

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

204
papers

3,097
citations

29
h-index

47
g-index

235
ext. papers

4,051
ext. citations

3.2
avg, IF

6.17
L-index

#	Paper	IF	Citations
204	Energy Management Strategy of AC/DC Hybrid Microgrid Based on Solid-State Transformer. <i>IEEE Access</i> , 2022 , 1-1	3.5	
203	Clustering of transformer condition using frequency response analysis based on k-means and GOA. <i>Electric Power Systems Research</i> , 2022 , 202, 107619	3.5	3
202	Analysis of Transformer Oil-Paper Insulation State Using Fractional Poynting-Thomson Model. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2022 , 1-1	2.3	1
201	A Master-Slave Game Optimization Model for Electric Power Companies Considering Virtual Power Plant. <i>IEEE Access</i> , 2022 , 10, 21812-21820	3.5	1
200	Application of Frequency Response Analysis Method to Detect Short-Circuit Faults in Three-Phase Induction Motors. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2046	2.6	0
199	Active Power Sharing in a Micro-Grid with Multiple Grid Connections. <i>Designs</i> , 2022 , 6, 24	1.8	0
198	Oil-Immersed Power Transformer Condition Monitoring Methodologies: A Review. <i>Energies</i> , 2022 , 15, 3379	3.1	1
197	Artificial Intelligence-Based Power Transformer Health Index for Handling Data Uncertainty. <i>IEEE Access</i> , 2021 , 1-1	3.5	7
196	Enhancing the Fault Ride-through Capability of a DFIG-WECS Using a High-Temperature Superconducting Coil. <i>Energies</i> , 2021 , 14, 6319	3.1	5
195	Classification and Location of Transformer Winding Deformations using Genetic Algorithm and Support Vector Machine. <i>Recent Advances in Electrical and Electronic Engineering</i> , 2021 , 14,	0.3	1
194	Error Analysis of Air-Core Coil Current Transformer Based on Stacking Model Fusion. <i>Energies</i> , 2021 , 14, 1912	3.1	1
193	Application of Frequency Response Analysis Technique to Detect Transformer Tap Changer Faults. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3128	2.6	1
192	Application of Logistic Regression Algorithm in the Interpretation of Dissolved Gas Analysis for Power Transformers. <i>Electronics (Switzerland)</i> , 2021 , 10, 1206	2.6	3
191	Estimation of Transmission Line Parameters Using Voltage-Current Measurements and Whale Optimization Algorithm. <i>Energies</i> , 2021 , 14, 3239	3.1	3
190	Estimating Generated Power of Photovoltaic Systems During Cloudy Days Using Gene Expression Programming. <i>IEEE Journal of Photovoltaics</i> , 2021 , 11, 185-194	3.7	3
189	Research on a Composite Voltage and Current Measurement Device for HVDC Networks. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 8930-8941	8.9	15
188	An online correction system for electronic voltage transformers. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 126, 106611	5.1	8

187	Study on the Efficiency of Simultaneous Tube Compression and Expansion Electromagnetic Forming. <i>IEEE Access</i> , 2021 , 9, 30035-30042	3.5	1
186	Understanding the Influence of Power Transformer Faults on the Frequency Response Signature Using Simulation Analysis and Statistical Indicators. <i>IEEE Access</i> , 2021 , 9, 70935-70947	3.5	8
185	Toward a Substation Automation System Based on IEC 61850. <i>Electronics (Switzerland)</i> , 2021 , 10, 310	2.6	6
184	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	2
183	Research on Electromagnetic Force Distribution and Deformation Uniformity of Tube Electromagnetic Bulging Based on Concave Magnetic Field Shaper. <i>IEEE Access</i> , 2021 , 9, 63550-63558	3.5	
182	Dealing With Data Uncertainty for Transformer Insulation System Health Index. <i>IEEE Access</i> , 2021 , 9, 74703-74712	3.5	4
181	Optimal Placement of Synchronized Voltage Traveling Wave Sensors in a Radial Distribution Network. <i>IEEE Access</i> , 2021 , 9, 65380-65387	3.5	2
180	Interpretation of Frequency Response Analysis for Fault Detection in Power Transformers. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2923	2.6	4
179	Fault Diagnosis of Transformer Windings Based on Decision Tree and Fully Connected Neural Network. <i>Energies</i> , 2021 , 14, 1531	3.1	7
178	Dissolved Gas Analysis for Power Transformers within Distributed Renewable Generation-Based Systems. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2021 , 28, 1349-1356	2.3	4
177	Cost-Effective Design of IoT-Based Smart Household Distribution System. <i>Designs</i> , 2021 , 5, 55	1.8	0
176	Application of SMES Technology in Improving the Performance of a DFIG-WECS Connected to a Weak Grid. <i>IEEE Access</i> , 2021 , 9, 124541-124548	3.5	8
175	. <i>IEEE Access</i> , 2021 , 9, 70014-70023	3.5	
174	Technoeconomic and Environmental Study of Multi-Objective Integration of PV/Wind-Based DGs Considering Uncertainty of System. <i>Electronics (Switzerland)</i> , 2021 , 10, 3035	2.6	2
173	Online Evaluation for the Accuracy of Electronic Voltage Transformer Based on Recursive Principal Components Analysis. <i>Energies</i> , 2020 , 13, 5576	3.1	4
172	Enhancing the performance of wind energy conversion systems using unified power flow controller. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 1922-1929	2.5	15
171	Electromagnetic Force Distribution and Forming Performance in Electromagnetic Forming With Discretely Driven Rings. <i>IEEE Access</i> , 2020 , 8, 16166-16173	3.5	25
170	Investigating a New Approach for Moisture Assessment of Transformer Insulation System. <i>IEEE Access</i> , 2020 , 8, 81458-81467	3.5	3

169	Combined ANFIS-Wavelet Technique to Improve the Estimation Accuracy of the Power Output of Neighboring PV Systems during Cloud Events. <i>Energies</i> , 2020 , 13, 1613	3.1	4
168	Detection of Electricity Theft Behavior Based on Improved Synthetic Minority Oversampling Technique and Random Forest Classifier. <i>Energies</i> , 2020 , 13, 2039	3.1	27
167	Optimum Location and Parameter Setting of STATCOM Based on Improved Differential Evolution Harmony Search Algorithm. <i>IEEE Access</i> , 2020 , 8, 87810-87819	3.5	7
166	Enhancement of microgrid operation by considering the cascaded impact of communication delay on system stability and power management. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 120, 105964	5.1	6
165	Enhancement of DFIG LVRT Capability During Extreme Short-Wind Gust Events Using SMES Technology. <i>IEEE Access</i> , 2020 , 8, 47264-47271	3.5	13
164	Construction and Analysis of Two-Dimensional Axisymmetric Model of Electromagnetic Tube Bulging With Field Shaper. <i>IEEE Access</i> , 2020 , 8, 113713-113719	3.5	10
163	Electromagnetic Force Distribution and Wall Thickness Reduction of Three-Coil Electromagnetic Tube Bulging With Axial Compression. <i>IEEE Access</i> , 2020 , 8, 21665-21675	3.5	15
162	Analysis of Electromagnetic Force and Formability of Tube Electromagnetic Bulging Based on Convex Coil. <i>IEEE Access</i> , 2020 , 8, 33215-33222	3.5	13
161	. <i>IEEE Access</i> , 2020 , 8, 19248-19255	3.5	14
160	Effect of AC-voltage harmonics on oil impregnated paper in transformer bushings. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020 , 27, 26-32	2.3	9
159	An Improved Technique to Estimate the Total Generated Power by Neighboring Photovoltaic Systems Using Single-Point Irradiance Measurement and Correlational Models. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 3905-3917	11.9	3
158	. <i>IEEE Access</i> , 2020 , 8, 9371-9379	3.5	21
157	Design and Validation of a Generalized Multilevel Inverter with Simplified Switching Technique. <i>Electric Power Components and Systems</i> , 2020 , 48, 186-200	1	
156	Gene expression technique-based approach to improve the accuracy of estimating the total generated power by neighbouring photovoltaic systems. <i>IET Renewable Power Generation</i> , 2020 , 14, 3715-3723	2.9	
155	Voltage-current technique to identify fault location within long transmission lines. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 5588-5596	2.5	6
154	Estimating Power Transformer High Frequency Model Parameters Using Frequency Response Analysis. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 1267-1277	4.3	25
153	Fault Location on Radial Distribution Networks via Distributed Synchronized Traveling Wave Detectors. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 1553-1562	4.3	16
152	An improved digital integral algorithm to enhance the measurement accuracy of Rogowski coil-based electronic transformers. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 118, 105806	5.1	19

151	Electromagnetic Force Distribution and Forming Performance in Electromagnetic Tube Expansion with Axial Compression. <i>IEEE Access</i> , 2020 , 8, 134514-134523	3.5	2
150	A comprehensive analyses of aging characteristics of oil-paper insulation system in HVDC converter transformers. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020 , 27, 1707-1714	2.3	7
149	Active Charge Balancing Strategy Using the State of Charge Estimation Technique for a PV-Battery Hybrid System. <i>Energies</i> , 2020 , 13, 3434	3.1	3
148	. <i>IEEE Access</i> , 2020 , 8, 170271-170280	3.5	0
147	Electromagnetic Force Distribution and Axial Deformation Uniformity Analysis of Dual-Coil Electromagnetic Tube Compression Method. <i>IEEE Access</i> , 2020 , 8, 143502-143508	3.5	3
146	. <i>IEEE Access</i> , 2020 , 8, 159979-159989	3.5	5
145	. <i>IEEE Access</i> , 2020 , 8, 196253-196263	3.5	4
144	Study of a Topology for Plate Electromagnetic Forming Based on Inner Reverse and Outer Positive Double Coil Loading. <i>IEEE Access</i> , 2020 , 8, 196920-196930	3.5	3
143	Tube Electromagnetic Free Bulging Based on Internal Negative-External Positive Three-Coil System. <i>IEEE Access</i> , 2020 , 8, 209939-209948	3.5	3
142	An Intelligent Controlling Method for Battery Lifetime Increment Using State of Charge Estimation in PV-Battery Hybrid System. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8799	2.6	4
141	Experimental Evaluation of Transformer Internal Fault Detection Based on V _{II} Characteristics. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 4108-4119	8.9	10
140	Impact of Load Ramping on Power Transformer Dissolved Gas Analysis. <i>IEEE Access</i> , 2019 , 7, 170343-170351	3.5	6
139	A Novel Unbalance Compensation Method for Distribution Solid-State Transformer Based on Reduced Order Generalized Integrator. <i>IEEE Access</i> , 2019 , 7, 108593-108603	3.5	10
138	Sag and Flicker Reduction Using Hysteresis-Fuzzy Control-Based SMES Unit. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2019 , 42, 52-57	1.4	3
137	High frequency electric circuit modeling for transformer frequency response analysis studies. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 111, 351-368	5.1	17
136	Adaptive RCMAC Neural Network Dynamic Surface Control for Permanent-Magnet Synchronous Motors Driven Two-Axis X-Y Table. <i>IEEE Access</i> , 2019 , 7, 38068-38084	3.5	10
135	Improved Consistent Interpretation Approach of Fault Type within Power Transformers Using Dissolved Gas Analysis and Gene Expression Programming. <i>Energies</i> , 2019 , 12, 730	3.1	15
134	A New Vibration Testing Platform for Electronic Current Transformers. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 704-712	5.2	33

133	A New Online Temperature Compensation Technique for Electronic Instrument Transformers. <i>IEEE Access</i> , 2019 , 7, 97614-97623	3.5	13
132	Robust Adaptive Neural-Network Backstepping Control Design for High-Speed Permanent-Magnet Synchronous Motor Drives: Theory and Experiments. <i>IEEE Access</i> , 2019 , 7, 99327-99348	3.5	14
131	A Minimum Side-Lobe Optimization Window Function and Its Application in Harmonic Detection of an Electricity Grid. <i>Energies</i> , 2019 , 12, 2619	3.1	7
130	Improving voltage of remote connection using wind-solar farms equipped with new voltage control strategy based on virtual impedance monitoring enabled by IEC 61850 communication. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 2199-2207	2.5	3
129	A new on-line technique to identify fault location within long transmission lines. <i>Engineering Failure Analysis</i> , 2019 , 105, 52-64	3.2	17
128	Application of Superconductors to Improve the Performance of DFIG-Based WECS. <i>IEEE Access</i> , 2019 , 7, 103760-103769	3.5	20
127	3D approach for fault identification within power transformers using frequency response analysis. <i>IET Science, Measurement and Technology</i> , 2019 , 13, 903-911	1.5	11
126	Electromagnetic Force Distribution and Deformation Homogeneity of Electromagnetic Tube Expansion With a New Concave Coil Structure. <i>IEEE Access</i> , 2019 , 7, 117107-117114	3.5	32
125	. <i>IEEE Access</i> , 2019 , 7, 157471-157479	3.5	18
124	Verification of Latency and Delays Related to a Digital Topology based on IEC 61850 2019 ,		2
123	Power Transformer Degradation Condition and Insulation Index Estimation Based on Historical Oil Data 2019 ,		2
122	Correction to "A Novel Unbalance Compensation Method for Distribution Solid-State Transformer Based on Reduced Order Generalized Integrator" <i>IEEE Access</i> , 2019 , 7, 169656-169656	3.5	
121	A New Control Strategy for Active Power Filter. <i>Energies</i> , 2019 , 12, 4099	3.1	1
120	Experimental evaluation of detecting power transformer internal faults using FRA polar plot and texture analysis. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 108, 1-8	5.1	15
119	Application of FRA to Improve the Design and Maintenance of Wireless Power Transfer Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 4313-4325	5.2	4
118	A testing platform for subsea power cable deployment. <i>Engineering Failure Analysis</i> , 2019 , 96, 142-157	3.2	6
117	Toward reliable interpretation of power transformer sweep frequency impedance signatures: experimental analysis. <i>IEEE Electrical Insulation Magazine</i> , 2018 , 34, 40-51	2.1	12
116	A New Technique for Simultaneous Load Current Sharing and Voltage Regulation in DC Microgrids. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 1403-1414	11.9	27

115	A Three-Phase Symmetrical DC-Link Multilevel Inverter With Reduced Number of DC Sources. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 8331-8340	7.2	38
114	. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 3463-3472	4.3	32
113	State-of-the-art literature review of WPT: Current limitations and solutions on IPT. <i>Electric Power Systems Research</i> , 2018 , 154, 493-502	3.5	27
112	Detecting incipient radial deformations of power transformer windings using polar plot and digital image processing. <i>IET Science, Measurement and Technology</i> , 2018 , 12, 492-499	1.5	28
111	Application of adaptive neuro fuzzy inference system to support power transformer life estimation and asset management decision. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 845-852	2.3	20
110	A Novel Concept for Three-Phase Cascaded Multilevel Inverter Topologies. <i>Energies</i> , 2018 , 11, 268	3.1	8
109	Methods for Advanced Wind Turbine Condition Monitoring and Early Diagnosis: A Literature Review. <i>Energies</i> , 2018 , 11, 1309	3.1	51
108	Study of Current Measurement Method Based on Circular Magnetic Field Sensing Array. <i>Sensors</i> , 2018 , 18,	3.8	12
107	Enhancing the Estimation of the Overall Produced Power by Several Adjacent Photovoltaic Systems Using Existing Correlational Factors 2018 ,		2
106	A Cloud Associated Smart Grid Admin Dashboard. <i>Engineering, Technology & Applied Science Research</i> , 2018 , 8, 2499-2507	1	1
105	An Effective Dual Closed-Loop Scheme Based on Lead Compensator and Proportional Controller for Quasi Z-Source Inverter 2018 ,		1
104	Review of Transmission Line Fault Location using Travelling Wave Method 2018 ,		1
103	Mitigation of Torsional Oscillations Hazard in Cascaded Induction Motors Driving a Large Mechanical Load 2018 ,		1
102	An Online Calibration System for Digital Input Electricity Meters Based on Improved Nuttall Window. <i>IEEE Access</i> , 2018 , 6, 71262-71270	3.5	6
101	A Hybrid Multilevel Power Electronic Inverter and Fault Location Identification of Switching Devices 2018 ,		1
100	Solid State Transformers Topologies, Controllers, and Applications: State-of-the-Art Literature Review. <i>Electronics (Switzerland)</i> , 2018 , 7, 298	2.6	31
99	Effect of Temperature and Pre-stressed Voltage on Breakdown of Oil-Impregnated Paper 2018 ,		2
98	Partial Discharge Analysis on-site in Various High Voltage Apparatus 2018 ,		1

97	A new method to detect dissolved gases in transformer oil using NIR-IR spectroscopy. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 409-419	2.3	32
96	Application of digital image processing to detect transformer bushing faults and oil degradation using FRA polar plot signature. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 428-436 ^{2,3}		32
95	Application of Order Analysis to Diagnose Fatigue within Wind Turbine Gearbox. <i>Technology and Economics of Smart Grids and Sustainable Energy</i> , 2017 , 2, 1	2.1	2
94	High frequency transformer modelling using state space representation for FRA studies 2017 ,		5
93	Correlation between dissolved gases and oil spectral response 2017 ,		7
92	2017 ,		2
91	Improved condition monitoring technique for wind turbine gearbox and shaft stress detection. <i>IET Science, Measurement and Technology</i> , 2017 , 11, 431-437	1.5	8
90	Application of DIP to Detect Power Transformers Axial Displacement and Disk Space Variation Using FRA Polar Plot Signature. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 1794-1805	11.9	36
89	A novel application of frequency response analysis for wireless power transfer system 2017 ,		1
88	2017 ,		1
87	Performance evaluation of online transformer internal fault detection based on transient overvoltage signals. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 3906-3915	2.3	8
86	Online Transformer Internal Fault Detection Based on Instantaneous Voltage and Current Measurements Considering Impact of Harmonics. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 587-598 ^{4,3}		32
85	Preventing transformer internal resonance under very fast transient overvoltage using RC surge suppressor. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 1263-1272	2.3	2
84	Superconducting Magnetic Energy Storage, a Promising FACTS Device for Wind Energy Conversion Systems 2017 , 49-86		
83	Applications of Unified Power Flow Controller in Wind Energy Conversion System 2017 , 17-48		
82	Combined Online and Delayed Coordinated Charging of Plug-In Electric Vehicles Considering Wind and Rooftop PV Generations. <i>Technology and Economics of Smart Grids and Sustainable Energy</i> , 2016 , 1, 1	2.1	1
81	Fuzzy logic approach for transformer remnant life prediction and asset management decision. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016 , 23, 3199-3208	2.3	41
80	2016 ,		1

79	A novel three phase cascaded multilevel inverter topology 2016,		2
78	Detection of power transformer bushing faults and oil degradation using frequency response analysis. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016 , 23, 222-229	2.3	42
77	A novel method of measuring transformer oil interfacial tension using UV-Vis spectroscopy. <i>IEEE Electrical Insulation Magazine</i> , 2016 , 32, 7-13	2.1	12
76	Comparison of different correlational techniques in estimating the total generated power of neighboring photovoltaic systems 2016,		3
75	Identification of the minimum detection of transformer bushing failure based on Frequency Response Analysis (FRA) 2016,		2
74	Voltage regulation in DC microgrids with various circuit configurations 2016,		1
73	Cloud computing for energy management in smart grid - an application survey. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 121, 012010	0.4	16
72	A review of spectroscopy technology applications in transformer condition monitoring 2016,		4
71	High frequency power transformer modelling for frequency response analysis studies 2016,		2
70	. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 2062-2073	11.9	50
69	Design and implementation of a novel three-phase cascaded half-bridge inverter. <i>IET Power Electronics</i> , 2016 , 9, 1741-1752	2.2	12
68	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015 , 22, 1275-1282	2.3	41
67	Impact of insulating oil degradation on the power transformer frequency response analysis 2015,		2
66	Minimum detection of power transformer short circuit fault using frequency response analysis 2015,		3
65	Application of UPFC to improve the low-voltage-ride-through capability of DFIG 2015,		3
64	Application of high temperature superconductor to improve the dynamic performance of WECS 2015,		3
63	A new fuzzy logic approach to identify power transformer criticality using dissolved gas-in-oil analysis. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 67, 401-408	5.1	56
62	Fuzzy Approach for Online Coordination of Plug-In Electric Vehicle Charging in Smart Grid. <i>IEEE Transactions on Sustainable Energy</i> , 2015 , 6, 1112-1121	8.2	46

61	Impact of VSC faults on dynamic performance and low voltage ride through of DFIG. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 65, 334-347	5.1	9
60	Impact of power transformer insulating mineral oil degradation on FRA polar plot 2015 ,		2
59	Remnant life estimation of power transformer based on IFT and acidity number of transformer oil 2015 ,		11
58	Improved power transformer winding fault detection using FRA diagnostics (part 1: axial displacement simulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015 , 22, 556-563	2.3	96
57	Improved power transformer winding fault detection using FRA diagnostics (part 2: radial deformation simulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015 , 22, 564-570	2.3	37
56	A new current-based technique for discriminating between internal faults and inrush current within power transformers 2015 , 195-200		
55	A review of dissolved gas analysis measurement and interpretation techniques. <i>IEEE Electrical Insulation Magazine</i> , 2014 , 30, 39-49	2.1	161
54	Online coordination of plug-in electric vehicle charging in smart grid with distributed wind power generation systems 2014 ,		11
53	2014 ,		1
52	Transformer Parameters Estimation From Nameplate Data Using Evolutionary Programming Techniques. <i>IEEE Transactions on Power Delivery</i> , 2014 , 29, 2118-2123	4.3	26
51	Performance evaluation of on-line transformer winding short circuit fault detection based on instantaneous voltage and current measurements 2014 ,		2
50	Effect of intermittent voltage source converter faults on the overall performance of wind energy conversion system. <i>International Journal of Sustainable Energy</i> , 2014 , 33, 606-618	2.7	5
49	Offline to online mechanical deformation diagnosis for power transformers 2014 ,		2
48	2014 ,		7
47	2014 ,		7
46	Finite element performance evaluation of online transformer internal fault detection based on instantaneous voltage and current measurements. <i>Australian Journal of Electrical and Electronics Engineering</i> , 2014 , 11,	0.6	2
45	Application of UPFC on stabilizing torsional oscillations and improving transient stability 2013 ,		3
44	Improvement of DFIG-based WECS performance using SMES unit 2013 ,		5

43	A new fuzzy logic approach for consistent interpretation of dissolved gas-in-oil analysis. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2013 , 20, 2343-2349	2.3	77
42	Application of SMES Unit to Improve DFIG Power Dispatch and Dynamic Performance During Intermittent Misfire and Fire-Through Faults. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 5701712-5701712	1.8	25
41	Impact of conducting materials on furan-spectral correlation of transformer oil 2013 ,		5
40	Power transformer winding fault analysis using transfer function 2013 ,		5
39	Image processing-based on-line technique to detect power transformer winding faults 2013 ,		6
38	2013 ,		2
37	Understanding power transformer frequency response analysis signatures. <i>IEEE Electrical Insulation Magazine</i> , 2013 , 29, 48-56	2.1	107
36	A review on chemical diagnosis techniques for transformer paper insulation degradation 2013 ,		7
35	Impact of axial displacement on power transformer FRA signature 2013 ,		7
34	Improving the low voltage ride through of doubly fed induction generator during intermittent voltage source converter faults. <i>Journal of Renewable and Sustainable Energy</i> , 2013 , 5, 043110	2.5	15
33	Improving dynamic performance of wind energy conversion systems using fuzzy-based hysteresis current-controlled superconducting magnetic energy storage. <i>IET Power Electronics</i> , 2012 , 5, 1305	2.2	28
32	A new approach to identify power transformer criticality and asset management decision based on dissolved gas-in-oil analysis. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2012 , 19, 1007-1012 ^{2,3}	2.3	110
31	Characterization of transformer FRA signature under various winding faults 2012 ,		19
30	A Novel Online Technique to Detect Power Transformer Winding Faults. <i>IEEE Transactions on Power Delivery</i> , 2012 , 27, 849-857	4.3	108
29	Application of SMES to Enhance the Dynamic Performance of DFIG During Voltage Sag and Swell. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 5702009-5702009	1.8	88
28	. <i>IEEE Transactions on Power Delivery</i> , 2012 , 27, 469-474	4.3	47
27	2012 ,		4
26	Impact of rooftop PV generation on distribution transformer and voltage profile of residential and commercial networks 2012 ,		18

25	Standardization of DGA interpretation techniques using fuzzy logic approach 2012 ,		4
24	Transmission Line Power Transfer Capability Improvement, Case Study. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 495-499		2
23	2011 ,		21
22	Effect of SMES unit on the performance of type 4 wind turbine generator during voltage sag 2011 ,		3
21	Impact of uncoordinated and coordinated charging of plug-in electric vehicles on substation transformer in smart grid with charging stations 2011 ,		8
20	Application of SMES unit to improve the high-voltage-ride-through capability of DFIG-grid connected during voltage swell 2011 ,		12
19	Improving the performance of smart grid over-current protection relays 2011 ,		3
18	Smart load management of plug-in electric vehicles in distribution and residential networks with charging stations for peak shaving and loss minimisation considering voltage regulation. <i>IET Generation, Transmission and Distribution</i> , 2011 , 5, 877	2.5	268
17	Correlation of furan concentration and spectral response of transformer oil-using expert systems. <i>IET Science, Measurement and Technology</i> , 2011 , 5, 183-188	1.5	34
16	Application of SMES Unit in Improving the Performance of an AC/DC Power System. <i>IEEE Transactions on Sustainable Energy</i> , 2011 , 2, 109-121	8.2	48
15	Improvement of LVRT capability of variable speed wind turbine generators using SMES unit 2011 ,		4
14	Effects of SMES on dynamic behaviors of type D-Wind Turbine Generator-Grid connected during short circuit 2011 ,		3
13	Application of STATCOM to improve the high-voltage-ride-through capability of wind turbine generator 2011 ,		14
12	A new method for analysing transformer condition using frequency response analysis 2011 ,		7
11	A novel algorithm to detect internal transformer faults 2011 ,		8
10	Application of artificial neural networks to improve power transfer capability through OLTC. <i>International Journal of Engineering, Science and Technology</i> , 2010 , 2,	1.4	2
9	Fuzzy logic approach to identify transformer criticality using dissolved gas analysis 2010 ,		20
8	Impacts of battery charging rates of Plug-in Electric Vehicle on smart grid distribution systems 2010 ,		45

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