

A Manu Haddad

List of Publications by Year in descending order

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120
papers

1,384
citations

471371

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h-index

395590

33
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121
all docs

121
docs citations

121
times ranked

846
citing authors

#	ARTICLE	IF	CITATIONS
1	A Power Decoupling Control for Wind Power Converter Based on Series-Connected MMC and Open-Winding PMSC. IEEE Transactions on Industrial Electronics, 2022, 69, 8091-8101.	5.2	9
2	Investigation Into Variation of Resistivity and Permittivity of Aqueous Solutions and Soils With Frequency and Current Density. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 443-455.	1.4	5
3	Triple Point Surface Discharge Photography in Atmospheric Gases Using Intensified High-Speed Camera System. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, , 1-1.	1.8	1
4	Capture Mechanism and Optimal Design of Micro-Particle Traps in HVAC/HVDC Gas Insulated Equipment. IEEE Transactions on Power Delivery, 2022, 37, 4700-4710.	2.9	4
5	Surface Flashover Induced by Metal Contaminants Adhered to Tri-Post Epoxy Insulators under Superimposed Direct and Lightning Impulse Voltages. Polymers, 2022, 14, 1374.	2.0	6
6	Experimental Study and Modeling of the Effect of ESDD/NSDD on AC Flashover of SiR Outdoor Insulators. Energies, 2022, 15, 3782.	1.6	3
7	A Chirp Spread Spectrum Modulation Scheme for Robust Power Line Communication. IEEE Transactions on Power Delivery, 2022, 37, 5299-5309.	2.9	2
8	Performance of Composite Outdoor Insulator Under Superimposed Direct and Switching Impulse Voltages. IEEE Transactions on Power Delivery, 2021, 36, 1193-1201.	2.9	8
9	Clarifications on the Behavior of Alternative Gases to SF6 in Divergent Electric Field Distributions under AC Voltage. Energies, 2021, 14, 1065.	1.6	2
10	The Correlation of Transformer Oil Electrical Properties with Water Content Using a Regression Approach. Energies, 2021, 14, 2089.	1.6	17
11	Development of ReaxFF SFOH Force Field for SF 6 $\text{H}_2\text{O}/\text{O}_2$ Hybrid System Based on Synergetic Optimization by CMA-ES and MC Methodology. ChemistrySelect, 2021, 6, 4622-4632.	0.7	2
12	Monitoring of Dry Bands and Discharge Activities at the Surface of Textured Insulators with AC Clean Fog Test Conditions. Energies, 2021, 14, 2914.	1.6	13
13	Lightning Current Performance of Conventional and Enhanced Rod Ground Electrodes. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 1179-1188.	1.4	12
14	Analysis of the Performance of G3 Power Line Communication Synchronisation. , 2021, , .		0
15	Inhibition Effect of Solid Products and DC Breakdown Characteristics of the $\text{HFO}_{1234}\text{Ze}(\text{E})\text{N}_2/\text{O}_2$ Ternary Gas Mixture. ACS Omega, 2021, 6, 23281-23292.	1.6	2
16	ReaxFF MD Investigation on the Damage Mechanism of Epoxy Polymer Exposed to DC Corona Discharge in SF_6 Gas. , 2021, , .		0
17	Partial Discharge Characteristics of Fluoronitriles/ CO_2 and Trifluoroiodomethane/ CO_2 Gas Mixtures under DC Voltage. , 2021, , .		0
18	Analysis of light emission and Schlieren from short gap high voltage streamers representing lightning impulses. Scientific Reports, 2021, 11, 24324.	1.6	2

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19	Development of Future Compact and Eco-Friendly HVDC Gas-Insulated Systems: Shape Optimization of a DC Spacer Model and Novel Materials Investigation. <i>Energies</i> , 2020, 13, 3288.	1.6	8
20	Development of an FPGA based Time of Arrival Estimator for PLC Applications. , 2020, , .		1
21	A Review on Real-Size Epoxy Cast Resin Insulators for Compact High Voltage Direct Current Gas Insulated Switchgears (GIS) and Gas Insulated Transmission Lines (GIL)â€™ Current Achievements and Envisaged Research and Development. <i>Energies</i> , 2020, 13, 6416.	1.6	9
22	Distribution of Impulse Current in Earth Grid Electrodes. , 2020, , .		2
23	Partial Discharge Measurements in a High Voltage Gas Insulated Transmission Line Insulated with CO ₂ . <i>Energies</i> , 2020, 13, 2891.	1.6	3
24	Shape and electric performance improvement of an insulator string using particles swarm algorithm. <i>IET Science, Measurement and Technology</i> , 2020, 14, 198-205.	0.9	10
25	Non-Contact Measurement and Analysis of Trapped Charge Decay Rates for Cable Line Switching Transients. <i>Energies</i> , 2020, 13, 1142.	1.6	1
26	AC Volume Breakdown and Surface Flashover of a 4% Novec™ 4710/96% CO ₂ Gas Mixture Compared to CO ₂ in Highly Nonhomogeneous Fields. <i>Energies</i> , 2020, 13, 1710.	1.6	7
27	Theoretical and Practical Investigations of Spacer Models for Future HVDC GIL/GIS Applications. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 1538-1549.	0.3	2
28	Comparative characterisation of conventional and textured 11kV insulators using the rotating wheel dip test. <i>High Voltage</i> , 2020, 5, 739-746.	2.7	3
29	Surface Discharges and Flashover Modelling of Solid Insulators in Gases. <i>Energies</i> , 2020, 13, 591.	1.6	6
30	Analysis of Very Fast Transients Using Black Box Macromodels in ATP-EMTP. <i>Energies</i> , 2020, 13, 698.	1.6	2
31	Research on Torque Characteristics of a Modular Arc-Linear Flux Switching Permanent-Magnet Motor. <i>IEEE Access</i> , 2019, 7, 57312-57320.	2.6	7
32	Is the Dry-Band Characteristic a Function of Pollution and Insulator Design?. <i>Energies</i> , 2019, 12, 3607.	1.6	7
33	Electrical Detection of Creeping Discharges over Insulator Surfaces in Atmospheric Gases under AC Voltage Application. <i>Energies</i> , 2019, 12, 2970.	1.6	12
34	Method for Recording Broadband High Resolution Emission Spectra of Laboratory Lightning Arcs. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	1
35	Traveling Wave Fault Location Using Layer Peeling. <i>Energies</i> , 2019, 12, 126.	1.6	5
36	Optimised performance of cap and pin insulator under wet pollution conditions using a mono-objective genetic algorithm. <i>Australian Journal of Electrical and Electronics Engineering</i> , 2019, 16, 149-162.	0.7	7

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37	Optical emission spectra of high current and high voltage generated arcs representing lightning. Applied Physics Letters, 2019, 114, .	1.5	6
38	Analysis of Gaseous By-Products of CF ₃ I and CF ₃ I-CO ₂ after High Voltage Arcing Using a GCMS. Molecules, 2019, 24, 1599.	1.7	7
39	Low-Cost Monitoring of Synchrophasors Using Frequency Modulation. Energies, 2019, 12, 611.	1.6	4
40	Analysis of textured silicone rubber performance under contaminated conditions. IET Science, Measurement and Technology, 2019, 13, 461-468.	0.9	6
41	On the use of LoRa for Power Line Communication. , 2019, , .		3
42	Effects of Manufacturing Imperfections on the Circulating Current in Ironless Brushless DC Motors. IEEE Transactions on Industrial Electronics, 2019, 66, 338-348.	5.2	13
43	Insulation strength of CF ₃ I-CO ₂ gas mixtures as an alternative to SF ₆ in MV switch disconnectors. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 330-338.	1.8	14
44	275 kV cable discharge field measurement and analysis of SVLs chain failure using ATP. Electric Power Systems Research, 2018, 161, 95-102.	2.1	3
45	A New Methodology for Network Scale Simulation of Emerging Power Line Communication Standards. IEEE Transactions on Power Delivery, 2018, 33, 1025-1034.	2.9	12
46	Is the dry-band characteristic a function of pollution and insulator design?. , 2018, , .		1
47	A Predictive Dynamic Model of Creeping Discharge along Solid Insulator in Air at Atmospheric Pressure. , 2018, , .		1
48	Creeping Discharge Development Over Insulator Surfaces in Natural Gases: Design and Implementation of Test Procedure. , 2018, , .		0
49	Optical Techniques For the Analysis of Outgassing of Composite Aircraft Joints Under Lightning. , 2018, , .		3
50	Application of Multiple Modelling Techniques for Analysis of Very Fast Transient Overvoltages in GIS. , 2018, , .		2
51	Implementation of the Prime and G3-PLC Physical Layers in the EMTP-ATP. , 2018, , .		2
52	Comparative Study of Three Different Radial Flux Ironless BLDC Motors. IEEE Access, 2018, 6, 64970-64980.	2.6	6
53	Modelling of a 400-kV MSCDN Reactor for Computation of Voltage and Field Distributions During Switching Transients. IEEE Access, 2018, 6, 36247-36255.	2.6	1
54	Evaluation of SF ₆ Leakage from Gas Insulated Equipment on Electricity Networks in Great Britain. Energies, 2018, 11, 2037.	1.6	30

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55	A study of the behavior of water droplets under the influence of non-uniform electric field in silicon rubber. , 2017, , .		2
56	CF3I Gas Mixtures: Breakdown Characteristics and Potential for Electrical Insulation. IEEE Transactions on Power Delivery, 2017, 32, 1089-1097.	2.9	54
57	Polluted insulator optimization using neural network combined with genetic algorithms. , 2017, , .		5
58	Flashover influence of fog rate on the characteristics of polluted silicone-rubber insulators. , 2017, , .		8
59	Characterics of ZnO microvaristors-loaded grading polymeric materials. , 2017, , .		0
60	Recent Advances in the Quest for a New Insulation Gas with a Low Impact on the Environment to Replace Sulfur Hexafluoride (SF6) Gas in High-Voltage Power Network Applications. Energies, 2017, 10, 1216.	1.6	160
61	Technique for the comparison of light spectra from natural and laboratory generated lightning current arcs. Applied Physics Letters, 2016, 109, .	1.5	11
62	Application of an analysis technique to characterise impulse response of grounding systems. , 2016, , .		4
63	A comparative study between surge arrester monitoring through capacitive/resistive measurement bridge and digital decomposition. , 2016, , .		2
64	Water droplet initiated discharges on epoxy nanocomposites under DC voltages. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1743-1752.	1.8	13
65	Breakdown of CF ₃ I gas and its mixtures under lightning impulse in coaxial-gil geometry. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1959-1967.	1.8	14
66	A procedure for detailed assessment of ground fault-current distribution in transmission networks. , 2016, , .		0
67	Purpose-built test rig for gas insulation breakdown tests under lightning impulse. , 2016, , .		3
68	Infrared analysis of dry-band flashover of silicone rubber insulators. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 304-310.	1.8	36
69	Breakdown performance of vacuum circuit breakers using alternative CF ₃ I-CO ₂ insulation gas mixture. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 14-21.	1.8	42
70	CF3I Gas Mixtures: Breakdown Characteristics and Potential for Electrical Insulation. IEEE Transactions on Power Delivery, 2016, , 1-1.	2.9	0
71	Electrical characterisation of ZnO microvaristor materials and compounds. , 2015, , .		7
72	Potential of CF3I gas mixture as an insulation medium in gas-insulated equipment. , 2015, , .		9

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73	Comparative performance of 11kV silicone rubber insulators using artificial pollution tests. , 2015, , .		10
74	On the Analysis of Impulse Test Results on Grounding Systems. IEEE Transactions on Industry Applications, 2015, 51, 5324-5334.	3.3	54
75	Dry-band and discharge activity characterization using visual and IR data analysis. , 2014, , .		4
76	Impulse characterization of ground electrodes. , 2014, , .		4
77	High frequency and impulse earthing for surge arresters. , 2014, , .		1
78	Understanding water droplet initiated discharges on epoxy nanocomposites under harmonic AC voltages adopting uhf technique. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 918-925.	1.8	7
79	Controlled Large-Scale Tests of Practical Grounding Electrodes“Part I: Test Facility and Measurement of Site Parameters. IEEE Transactions on Power Delivery, 2014, 29, 1231-1239.	2.9	12
80	Visualization of electric discharge in porous materials. , 2014, , .		4
81	Controlled Large-Scale Tests of Practical Grounding Electrodes“Part II: Comparison of Analytical and Numerical Predictions With Experimental Results. IEEE Transactions on Power Delivery, 2014, 29, 1240-1248.	2.9	18
82	Silicone rubber insulators for polluted environments part 1: enhanced artificial pollution tests. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 740-748.	1.8	36
83	Silicone rubber insulators for polluted environments part 2: textured insulators. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 749-757.	1.8	17
84	An integrated device for optimised power line communication and measurement on smart grids. , 2014, , .		0
85	Comparative Assessment of Enhancements to Wind Turbine Earthing Systems. IEEJ Transactions on Power and Energy, 2014, 134, 562-567.	0.1	0
86	The development of a voltage transducer for faults monitoring on high voltage overhead lines using numerical methods. , 2013, , .		0
87	Wireless measurement system for a large-scale grounding electrode test facility. , 2013, , .		3
88	Proposal for Probabilistic Risk Assessment in Grounding Systems and Its Application to Transmission Substations. IEEE Transactions on Power Delivery, 2012, 27, 2219-2226.	2.9	20
89	Probability Surface Distributions for Application in Grounding Safety Assessment. IEEE Transactions on Power Delivery, 2012, 27, 1928-1936.	2.9	13
90	Effect of pollution distribution class on insulators flashover under AC voltage. , 2012, , .		4

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91	Experimental investigation of high frequency and transient performance of earth rod systems. , 2012, , .		2
92	Steady-state security assessment for transmission systems and its application to the Dubai network. , 2012, , .		0
93	Dry-band discharges on polluted silicone rubber insulation: control and characterization. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1995-2003.	1.8	31
94	A technique to increase the effective length of horizontal earth electrodes and its application to a practical earth electrode system. , 2011, , .		8
95	Influence of Artificial Thermal Aging on Transformer Oil Properties. Electric Power Components and Systems, 2011, 39, 1701-1711.	1.0	34
96	Rate of energy absorption as indicator for the tracking/erosion test of silicone rubber. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 1772-1780.	1.8	9
97	Inclined-plane tests of textured silicone rubber Samples. , 2010, , .		3
98	A new approach to anti-fog design for polymeric insulators. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 343-350.	1.8	22
99	Experimental investigation of the impulse characteristics of practical ground electrode systems. , 2010, , .		8
100	Partial-arc and spark models of the flashover of lightly polluted insulators. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 417-424.	1.8	33
101	Experimental investigation into the performance of large-scale earthing electrodes. , 2010, , .		3
102	Analysis of switching transients in domestic installations with grid-tied microgeneration. , 2009, , .		1
103	International sabbaticals: Experiences and opportunities. , 2009, , .		0
104	Investigation on transformer oil impedance during breakdown under AC voltage. , 2009, , .		1
105	Reducing air clearance requirements for voltage uprating of overhead line by use of line surge arresters. , 2009, , .		2
106	Simulation of narrowband power line communication using ATP-EMTP. , 2009, , .		0
107	Recent Developments in High Voltage Research in the United Kingdom. IEEE Transactions on Power and Energy, 2009, 129, 1166-1169.	0.1	0
108	Lightning performance of 275 kV transmission lines. , 2008, , .		5

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109	Large-scale earthing test facilities at Dinorwig power station. , 2008, , .		3
110	Impulse breakdown voltages of air gaps: a new approach to atmospheric correction factors applicable to international standards. IEEE Transactions on Dielectrics and Electrical Insulation, 2007, 14, 1498-1508.	1.8	10
111	Principles of Anti-Fog Design for Polymeric Insulators. , 2007, , .		1
112	Computation model for ground potential and current distribution in ground impedance measurements at high-voltage towers. , 2007, , .		2
113	A New Frequency-Dependent Surge Impedance Calculation Method for High-Voltage Towers. IEEE Transactions on Power Delivery, 2006, 21, 1430-1437.	2.9	9
114	Hydrophobicity transfer from silicone rubber to adhering pollutants and its effect on insulator performance. IEEE Transactions on Dielectrics and Electrical Insulation, 2006, 13, 820-829.	1.8	84
115	Performance of Earthing Systems of Low Resistivity Soils. IEEE Transactions on Power Delivery, 2006, 21, 2039-2047.	2.9	50
116	Characterization of Ionization Phenomena in Soils Under Fast Impulses. IEEE Transactions on Power Delivery, 2006, 21, 353-361.	2.9	82
117	Effect of insulator shape on surface discharges and flashover under polluted conditions. IEEE Transactions on Dielectrics and Electrical Insulation, 2005, 12, 429-437.	1.8	39
118	Determination of Threshold Electric Field E_{rm} of Soil Under High Impulse Currents. IEEE Transactions on Power Delivery, 2005, 20, 2108-2113.	2.9	57
119	A new rotating spark gap design. Review of Scientific Instruments, 1997, 68, 4604-4608.	0.6	8
120	A note on detectors for joint minimax detection-estimation schemes. IEEE Transactions on Automatic Control, 1973, 18, 558-559.	3.6	5