Athula D Rajapakse

List of Publications by Year
in descending order

39 papers	1,497 citations	567281 15 h-index	610901 24 g-index
39 all docs	39 docs citations	39 times ranked	1289 citing authors

#	Article	IF	Citations
1	Fault Detection and Interruption in an Earthed HVDC Grid Using ROCOV and Hybrid DC Breakers. IEEE Transactions on Power Delivery, 2016, 31, 973-981.	4.3	386
2	Online Monitoring of Voltage Stability Margin Using an Artificial Neural Network. IEEE Transactions on Power Systems, 2010, 25, 1566-1574.	6.5	217
3	Traveling-Wave-Based Line Fault Location in Star-Connected Multiterminal HVDC Systems. IEEE Transactions on Power Delivery, 2012, 27, 2286-2294.	4.3	159
4	Micromachined Electric-Field Sensor to Measure AC and DC Fields in Power Systems. IEEE Transactions on Power Delivery, 2009, 24, 988-995.	4.3	102
5	Investigation of Fault Ride-Through Capability of Hybrid VSC-LCC Multi-Terminal HVDC Transmission Systems. IEEE Transactions on Power Delivery, 2019, 34, 241-250.	4.3	96
6	A Pattern-Recognition Approach for Detecting Power Islands Using Transient Signalsâ€"Part II: Performance Evaluation. IEEE Transactions on Power Delivery, 2012, 27, 1071-1080.	4.3	81
7	Wavelet-Multi Resolution Analysis Based ANN Architecture for Fault Detection and Localization in DC Microgrids. IEEE Access, 2019, 7, 145371-145384.	4.2	70
8	Analysis and Design of a Micromachined Electric-Field Sensor. Journal of Microelectromechanical Systems, 2008, 17, 31-36.	2.5	65
9	Series-Compensated Double-Circuit Transmission- Line Protection Using Directions of Current Transients. IEEE Transactions on Power Delivery, 2013, 28, 1566-1575.	4.3	41
10	Machine Learning Based Real-Time Monitoring of Long-Term Voltage Stability Using Voltage Stability Indices. IEEE Access, 2020, 8, 222544-222555.	4.2	36
11	Fault-Type Discrimination in HVDC Transmission Lines Using Rate of Change of Local Currents. IEEE Transactions on Power Delivery, 2020, 35, 117-129.	4.3	34
12	Local measurement based ultra-fast directional ROCOV scheme for protecting Bi-pole HVDC grids with a metallic return conductor. International Journal of Electrical Power and Energy Systems, 2018, 98, 323-330.	5.5	33
13	Optimal Sizing and Performance Evaluation of a Hybrid Renewable Energy System for an Off-Grid Power System in Northern Canada. Technology and Economics of Smart Grids and Sustainable Energy, 2019, 4, 1.	2.6	25
14	Investigation of Using IEC 61850-Sampled Values for Implementing a Transient-Based Protection Scheme for Series-Compensated Transmission Lines. IEEE Transactions on Power Delivery, 2018, 33, 93-101.	4.3	22
15	Development and Hardware Implementation of a Fault Transients Recognition System. IEEE Transactions on Power Delivery, 2012, 27, 40-52.	4.3	19
16	Fast and Reliable Method for Identifying Fault Type and Faulted Phases Using Band Limited Transient Currents. IEEE Transactions on Power Delivery, 2021, 36, 2839-2850.	4.3	14
17	Protection of active distribution networks incorporating microgrids with multi-technology distributed energy resources. Electric Power Systems Research, 2022, 202, 107575.	3.6	14
18	A Technique for Evaluating the Reliability Improvement Due to Energy Storage Systems. , 2007, , .		10

#	Article	IF	Citations
19	Measuring power system voltage remotely using micromachined electric field sensor. , 2008, , .		9
20	Efficient algorithms for realâ€time monitoring of transmission line parameters and their performance with practical synchrophasors. IET Generation, Transmission and Distribution, 2017, 11, 1134-1143.	2.5	9
21	Derivation of an equivalent circuit for realâ€time security assessment. IET Generation, Transmission and Distribution, 2016, 10, 1913-1920.	2.5	8
22	Development of an Equivalent Circuit of a Large Power System for Real-Time Security Assessment. IEEE Transactions on Power Systems, 2018, 33, 3490-3499.	6.5	8
23	Torsional Moving Electric Field Sensor with Modulated Sensitivity and without Reference Ground. Proceedings (mdpi), 2017, 1, .	0.2	7
24	Co-simulation of Power System and Synchrophasor Communication Network on a Single Simulation Platform. Technology and Economics of Smart Grids and Sustainable Energy, 2016, 1, 1.	2.6	6
25	Laboratory for teaching synchrophasor measurements and applications. , 2014, , .		5
26	Queuing-theoretic modeling of a PMU communication network. , 2013, , .		4
27	Operational Optimization of a Remote Off-Grid Hybrid Renewable Energy System in Northern Canada. , 2019, , .		3
28	Transient based faulted conductor selection method for double circuit lines. Electric Power Systems Research, 2021, 196, 107256.	3.6	3
29	Real-time implementation of discrete wavelet transform for transient type protection applications. , 2010, , .		2
30	Testing and enhancement of the dynamic performance of a Phasor measurement unit. , 2015, , .		2
31	Development of a test platform for synchrophasor applications with real-time digital simulator. , 2016, , .		2
32	Online Synchrophasor-Based Dynamic State Estimation Using Real-Time Digital Simulator. , 2018, , .		2
33	Teaching IEC 61850 based substation automation through hands-on experiences. , 2017, , .		1
34	Implementation and Testing of a Hybrid Protection Scheme for Active Distribution Network. , 2018, , .		1
35	A Selective Fault Clearing Scheme for a Hybrid VSC-LCC Multi-Terminal HVdc System. Energies, 2020, 13, 3554.	3.1	1
36	Post-disturbance transient stability status prediction using synchrophasor measurements. , 2016, , .		0

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37	Investigation of Using IEC 61850-Sampled Values for Implementing a Transient-Based Protection Scheme for Series-Compensated Transmission Lines. , 2019, , .		0
38	The heuristic model of energy propagation in free space, based on the detection of a current induced in a conductor inside a continuously covered conducting enclosure by an external radio frequency source. Open Physics, 2020, 18, 212-229.	1.7	0
39	Evaluation of a Stochastic Vehicle Travel Pattern Generation Model with Real-World Travel Data. , 2020, , .		0