

# Sarath Perera

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

869  
citations

933447

10  
h-index

888059

17  
g-index

52  
all docs

52  
docs citations

52  
times ranked

855  
citing authors

#	ARTICLE	IF	CITATIONS
1	Distribution System Planning With Incorporating DG Reactive Capability and System Uncertainties. IEEE Transactions on Sustainable Energy, 2012, 3, 112-123.	8.8	307
2	Standalone Operation of Wind Turbine-Based Variable Speed Generators With Maximum Power Extraction Capability. IEEE Transactions on Energy Conversion, 2012, 27, 822-834.	5.2	99
3	An Analytical Approach for Reliability Evaluation of Distribution Systems Containing Dispatchable and Nondispatchable Renewable DG Units. IEEE Transactions on Smart Grid, 2014, 5, 2657-2665.	9.0	69
4	Distribution System Restoration With Renewable Resources for Reliability Improvement Under System Uncertainties. IEEE Transactions on Industrial Electronics, 2020, 67, 8438-8449.	7.9	36
5	Remote Area Power Supply System: An Integrated Control Approach Based on Active Power Balance. IEEE Industry Applications Magazine, 2015, 21, 63-76.	0.4	26
6	Deterministic methodologies for the quantification of voltage unbalance propagation in radial and interconnected networks. IET Generation, Transmission and Distribution, 2015, 9, 1069-1076.	2.5	26
7	Rectifier Capacitor Filter Stress Analysis When Subject to Regular Voltage Fluctuations. IEEE Transactions on Power Electronics, 2013, 28, 3627-3635.	7.9	23
8	Lifetime analysis of aluminum electrolytic capacitor subject to voltage fluctuations. , 2010, , .		21
9	Simulation model of a grid-connected single-phase photovoltaic system in PSCAD/EMTDC. , 2012, , .		19
10	Control coordination of a wind turbine generator and a battery storage unit in a Remote Area Power Supply system. , 2010, , .		16
11	A control approach for voltage and frequency regulation of a Wind-Diesel-battery based hybrid remote area power supply system. , 2010, , .		16
12	Application of a hybrid energy storage in a remote area power supply system. , 2010, , .		15
13	Characteristics of power quality disturbances in Australia: voltage dips at low-voltage sites. IET Generation, Transmission and Distribution, 2015, 9, 2382-2388.	2.5	15
14	Voltage sag susceptibility of 230 V equipment. IET Generation, Transmission and Distribution, 2013, 7, 576-583.	2.5	13
15	Graph Theory Based Voltage Sag Mitigation Cluster Formation Utilizing Dynamic Voltage Restorers in Radial Distribution Networks. IEEE Transactions on Power Delivery, 2022, 37, 18-28.	4.3	13
16	A systematic approach towards evaluating voltage unbalance problem in interconnected sub-transmission networks: Separation of contribution by lines, loads and mitigation. , 2008, , .		11
17	An improved methodology for determining MV to LV voltage unbalance transfer coefficient. , 2008, , .		10
18	Attenuation and propagation of voltage unbalance in radial distribution networks. International Transactions on Electrical Energy Systems, 2015, 25, 3738-3752.	1.9	9

#	ARTICLE	IF	CITATIONS
19	Analysis of Network Asymmetry of Interconnected 66kV Sub-transmission Systems in relation to Voltage Unbalance. , 2007, , .		8
20	Network-Wide Influence of a STATCOM Configured for Voltage Unbalance Mitigation. IEEE Transactions on Power Delivery, 2020, 35, 1602-1605.	4.3	8
21	The effect of data aggregation interval on voltage results. , 2007, , .		6
22	Response analysis of saturable reactors and tap changer in an aluminium smelting plant. , 2009, , .		6
23	Impact of wind generator control strategies on flicker emission in distribution networks. , 2012, , .		6
24	A combined MV and LV network voltage regulation strategy for the reduction of voltage unbalance. , 2016, , .		6
25	A Digital Zero-Phase Filter for Measuring High Frequency Emissions (Supraharmonics) in Electrical Distribution Networks. , 2018, , .		6
26	Estimation of Voltage Unbalance Attenuation Caused by Three-Phase Induction Motors: An Extension to Distribution System State Estimation. IEEE Transactions on Power Delivery, 2019, 34, 1853-1864.	4.3	6
27	Integrated Volt/Var Control Method for Voltage Regulation and Voltage Unbalance Reduction in Active Distribution Networks. Energies, 2022, 15, 2225.	3.1	6
28	Hydrogen energy storage for a permanent magnet wind turbine generator based autonomous hybrid power system. , 2011, , .		5
29	Allocation of Common-Pool Resources in an Unmonitored Open System. IEEE Transactions on Power Systems, 2019, 34, 3912-3920.	6.5	5
30	Allowable Delay Heuristic in Provision of Primary Frequency Reserve in Future Power Systems. IEEE Transactions on Power Systems, 2020, 35, 1231-1241.	6.5	5
31	Voltage unbalance emission limits for installations - general guidelines and system specific considerations. , 2008, , .		4
32	Laboratory investigation of the input current characteristics of modern domestic appliances for varying supply voltage conditions. , 2010, , .		4
33	Hybrid operation of wind-diesel-fuel cell Remote Area Power Supply system. , 2010, , .		4
34	A review of recent investigations with reference to IEC/TR 61000-3-13 on voltage unbalance emission allocation. , 2010, , .		4
35	Induction motors subject to regular voltage fluctuations: Stator and rotor current analysis from a heating perspective. , 2012, , .		4
36	Analysis of High Frequency (Supraharmonics) Emissions Caused by Electric Vehicle Charging. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
37	Flicker Propagation in Interconnected Power Systems. , 2007, , .		3
38	Autonomous operation of wind-battery hybrid power system with maximum power extraction capability. , 2010, , .		3
39	Universal volt/var control strategy for different distribution networks in Australia. , 2018, , .		3
40	Important Considerations in Development of PV Inverter Models for High Frequency Emission (Supraharmonic) Studies. , 2020, , .		3
41	Operation of a wind-diesel-battery based hybrid Remote Area Power Supply system. , 2010, , .		2
42	Power sharing among multiple solar photovoltaic (PV) systems in a radial distribution feeder. , 2013, , .		2
43	Towards the Development of High Fidelity Harmonic Models for Solar Farms: Existing Knowledge. , 2018, , .		2
44	Revisiting the Effects of Supply Voltage Unbalance on the Losses of Three Phase Induction Motors. , 2018, , .		2
45	DFT-based sizing of battery storage devices to determine day-ahead minimum variability injection dispatch with renewable energy resources. , 2018, , .		2
46	Laboratory investigation of the impact of PQ on induction motor performance. , 2018, , .		2
47	Benchmarking the Sri Lankan Power System by a Power Quality Monitoring Program.. , 2006, , .		1
48	Voltage unbalance emission assessment in interconnected power systems. , 2014, , .		1
49	Market Structure for Enabling Volt/Var Control in Australian Distribution Networks: A Practical Perspective. , 2020, , .		1
50	Dependency of Three Phase Induction Motor Derating Aspects on Complex Voltage Unbalance Factor: A Calorimetric and Finite Element Simulation Study. IEEE Access, 2021, 9, 147063-147071.	4.2	1
51	Rediscovering the Derating Mechanisms for Three-Phase Induction Motors Operating under Supply Voltage Unbalance. , 2020, , .		0
52	Optimal Voltage Sag Mitigation Solution Provision using Customers Approximate Marginal Willingness-to-Pay Function. , 2021, , .		0