José Roberto Sanches Mantovani

List of Publications by Year
in descending order

123	2,838	159585	197818
papers	citations	30	49
		h-index	g-index

123	123	123	2225
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimal Distributed Generation and Reactive Power Allocation in Electrical Distribution Systems. IEEE Transactions on Sustainable Energy, 2016, 7, 975-984.	8.8	160
2	Branch and bound algorithm for transmission system expansion planning using a transportation model. IET Generation, Transmission and Distribution, 2000, 147, 149.	1.1	137
3	Improved Fault Location on Distribution Feeders Based on Matching During-Fault Voltage Sags. IEEE Transactions on Power Delivery, 2009, 24, 852-862.	4.3	133
4	Detecting and Locating Non-Technical Losses in Modern Distribution Networks. IEEE Transactions on Smart Grid, 2018, 9, 1023-1032.	9.0	104
5	Volt-VAR Multiobjective Optimization to Peak-Load Relief and Energy Efficiency in Distribution Networks. IEEE Transactions on Power Delivery, 2015, 30, 618-626.	4.3	101
6	Constructive heuristic algorithm for the DC model in network transmission expansion planning. IET Generation, Transmission and Distribution, 2005, 152, 277.	1.1	100
7	Optimal location-allocation of storage devices and renewable-based DG in distribution systems. Electric Power Systems Research, 2019, 172, 11-21.	3.6	96
8	A decentralized approach for optimal reactive power dispatch using a Lagrangian decomposition method. Electric Power Systems Research, 2012, 89, 148-156.	3.6	94
9	Multiobjective multistage distribution system planning using tabu search. IET Generation, Transmission and Distribution, 2014, 8, 35-45.	2.5	88
10	Optimised placement of control and protective devices in electric distribution systems through reactive tabu search algorithm. Electric Power Systems Research, 2008, 78, 372-381.	3.6	70
11	A new approach for reliability-centered maintenance programs in electric power distribution systems based on a multiobjective genetic algorithm. Electric Power Systems Research, 2016, 137, 41-50.	3.6	64
12	A stochastic mixed-integer convex programming model for long-term distribution system expansion planning considering greenhouse gas emission mitigation. International Journal of Electrical Power and Energy Systems, 2019, 108, 86-95.	5.5	64
13	Integrated Fault Location and Power-Quality Analysis in Electric Power Distribution Systems. IEEE Transactions on Power Delivery, 2016, 31, 428-436.	4.3	61
14	Adaptive Robust Short-Term Planning of Electrical Distribution Systems Considering Siting and Sizing of Renewable Energy Based DG Units. IEEE Transactions on Sustainable Energy, 2019, 10, 158-169.	8.8	60
15	A heuristic method for reactive power planning. IEEE Transactions on Power Systems, 1996, 11, 68-74.	6.5	59
16	Analysis of heuristic algorithms for the transportation model in static and multistage planning in network expansion systems. IET Generation, Transmission and Distribution, 2003, 150, 521.	1.1	56
17	Primary power distribution systems planning taking into account reliability, operation and expansion costs. IET Generation, Transmission and Distribution, 2012, 6, 274.	2.5	56
18	Allocation of protective devices in distribution circuits using nonlinear programming models and genetic algorithms. Electric Power Systems Research, 2004, 69, 77-84.	3.6	55

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19	Transmission-expansion planning using the DC model and nonlinear-programming technique. IET Generation, Transmission and Distribution, 2005, 152, 763.	1.1	50
20	Development of a Self-Healing Strategy With Multiagent Systems for Distribution Networks. IEEE Transactions on Smart Grid, 2017, 8, 2198-2206.	9.0	49
21	Planning and Projects of Secondary Electric Power Distribution Systems. IEEE Transactions on Power Systems, 2009, 24, 1599-1608.	6.5	47
22	Planning of Secondary Distribution Circuits Through Evolutionary Algorithms. IEEE Transactions on Power Delivery, 2005, 20, 205-213.	4.3	43
23	A Multi-Stage Stochastic Non-Linear Model for Reactive Power Planning Under Contingencies. IEEE Transactions on Power Systems, 2013, 28, 1503-1514.	6.5	41
24	A Multiobjective Optimization Technique to Develop Protection Systems of Distribution Networks With Distributed Generation. IEEE Transactions on Power Systems, 2018, 33, 7064-7075.	6.5	41
25	Improving the Grid Operation and Reliability Cost of Distribution Systems With Dispersed Generation. IEEE Transactions on Power Systems, 2013, 28, 2485-2496.	6.5	39
26	Carbon Footprint Management: A Pathway Toward Smart Emission Abatement. IEEE Transactions on Industrial Informatics, 2020, 16, 935-948.	11.3	39
27	Optimal power flow problem considering multiple-fuel options and disjoint operating zones: A solver-friendly MINLP model. International Journal of Electrical Power and Energy Systems, 2019, 113, 45-55.	5.5	38
28	Resiliency Assessment in Distribution Networks Using GIS-Based Predictive Risk Analytics. IEEE Transactions on Power Systems, 2019, 34, 4249-4257.	6.5	38
29	Logically constrained optimal power flow: Solver-based mixed-integer nonlinear programming model. International Journal of Electrical Power and Energy Systems, 2018, 97, 240-249.	5.5	35
30	Efficient linear programming algorithm for the transmission network expansion planning problem. IET Generation, Transmission and Distribution, 2003, 150, 536.	1.1	33
31	Optimal Coordination of Overcurrent Directional and Distance Relays in Meshed Networks Using Genetic Algorithm. IEEE Latin America Transactions, 2015, 13, 2975-2982.	1.6	29
32	VAr planning using genetic algorithm and linear programming. IET Generation, Transmission and Distribution, 2001, 148, 257.	1.1	28
33	Distribution System State Estimation Using the Hamiltonian Cycle Theory. IEEE Transactions on Smart Grid, 2016, 7, 366-375.	9.0	26
34	A Mixed Integer Conic Model for Distribution Expansion Planning: Matheuristic Approach. IEEE Transactions on Smart Grid, 2020, 11, 3932-3943.	9.0	26
35	Reactive power planning under conditionalâ€value â€at â€risk assessment using chanceâ€constrained optimisation. IET Generation, Transmission and Distribution, 2015, 9, 231-240.	2.5	24
36	Optimal Restoration of Active Distribution Systems With Voltage Control and Closed-Loop Operation. IEEE Transactions on Smart Grid, 2021, 12, 2295-2306.	9.0	24

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37	Multiobjective Short-Term Planning of Electric Power Distribution Systems Using NSGA-II. Journal of Control, Automation and Electrical Systems, 2013, 24, 286-299.	2.0	22
38	Planning of Distribution Systems Using Mixed-Integer Linear Programming Models Considering Network Reliability. Journal of Control, Automation and Electrical Systems, 2015, 26, 170-179.	2.0	22
39	A stochastic mixed-integer conic programming model for distribution system expansion planning considering wind generation. Energy Systems, 2018, 9, 551-571.	3.0	22
40	A decomposition approach for integrated planning of primary and secondary distribution networks considering distributed generation. International Journal of Electrical Power and Energy Systems, 2019, 106, 146-157.	5.5	22
41	Reactive power dispatch and planning using a non-linear branch-and-bound algorithm. IET Generation, Transmission and Distribution, 2010, 4, 963.	2.5	21
42	Fault section estimation in electric power systems using an optimization immune algorithm. Electric Power Systems Research, 2010, 80, 1341-1352.	3.6	20
43	An unequivocal normalization-based paradigm to solve dynamic economic and emission active-reactive OPF (optimal power flow). Energy, 2014, 73, 554-566.	8.8	20
44	A convex chance-constrained model for reactive power planning. International Journal of Electrical Power and Energy Systems, 2015, 71, 403-411.	5.5	20
45	Mediumâ€•and lowâ€voltage planning of radial electric power distribution systems considering reliability. IET Generation, Transmission and Distribution, 2017, 11, 2212-2221.	2.5	20
46	Increasing RES Hosting Capacity in Distribution Networks Through Closed-Loop Reconfiguration and Volt/VAr Control. IEEE Transactions on Industry Applications, 2022, 58, 4424-4435.	4.9	20
47	Multiâ€area environmentally constrained activeâ€"reactive optimal power flow: a shortâ€term tie line planning study. IET Generation, Transmission and Distribution, 2016, 10, 299-309.	2.5	19
48	An Unambiguous Distance-Based MIQP Model to Solve Economic Dispatch Problems with Disjoint Operating Zones. IEEE Transactions on Power Systems, 2016, 31, 825-826.	6.5	18
49	Reliability-Centered Maintenance Task Planning for Overhead Electric Power Distribution Networks. Journal of Control, Automation and Electrical Systems, 2020, 31, 1278-1287.	2.0	16
50	Voltageâ€dependent load modelâ€based shortâ€term distribution network planning considering carbon tax surplus. IET Generation, Transmission and Distribution, 2019, 13, 3760-3770.	2.5	15
51	Optimal reactive power dispatch using stochastic chance-constrained programming. , 2012, , .		14
52	Development of a Smart Grid Simulation Environment, Part I: Project of the Electrical Devices Simulator. Journal of Control, Automation and Electrical Systems, 2015, 26, 80-95.	2.0	14
53	Incorporating a Nodal Reactive Power Pricing Scheme Into the DisCoâ€™s Short-Term Operation. IEEE Transactions on Smart Grid, 2019, 10, 3720-3731.	9.0	14
54	Interior point algorithm for linear programming used in transmission network synthesis. Electric Power Systems Research, 2005, 76, 9-16.	3.6	13

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55	Integrated planning of electric power distribution networks. IEEE Latin America Transactions, 2009, 7, 203-210.	1.6	12
56	Fast fault section estimation in distribution control centers using adaptive genetic algorithm. International Journal of Electrical Power and Energy Systems, 2014, 63, 787-805.	5.5	12
57	Development of a Smart Grid Simulation Environment, Part II: Implementation of the Advanced Distribution Management System. Journal of Control, Automation and Electrical Systems, 2015, 26, 96-104.	2.0	12
58	Automatic restoration of large-scale distribution networks with distributed generators, voltage control devices and heating loads. Electric Power Systems Research, 2019, 176, 105925.	3.6	11
59	A Multiobjective Minimax Regret Robust VAr Planning Model. IEEE Transactions on Power Systems, 2017, 32, 1761-1771.	6.5	10
60	Multi-areas optimal reactive power flow. , 2008, , .		9
61	State estimation of distribution networks through the real-time measurements of the smart meters. , 2013, , .		9
62	A nodal pricing approach for reactive power in distribution networks. , 2017, , .		9
63	Reconfiguration of Radial Electric Power Distribution System via a Scatter Search Algorithm. IEEE Latin America Transactions, 2015, 13, 1022-1028.	1.6	8
64	A Node-Depth Encoding-Based Tabu Search Algorithm for Power Distribution System Restoration. Journal of Control, Automation and Electrical Systems, 2016, 27, 317-327.	2.0	8
65	Environmentally committed short-term planning of electrical distribution systems considering renewable based DG siting and sizing. , 2017, , .		8
66	Optimized Allocation of Control and Protective Devices in Electric Distribution Systems. Electric Power Components and Systems, 2009, 38, 1-21.	1.8	7
67	Optimal Phasor Measurement Units Placement for fault location on overhead electric power distribution feeders. , 2010, , .		7
68	Probabilistic analysis of the distributed power generation in weakly meshed distribution systems. , 2010, , .		7
69	The impact of time series-based interruption cost on online risk assessment in distribution networks. , 2016, , .		7
70	Short-Term Electrical Distribution Systems Planning Considering Distributed Generation and Reliability. Journal of Control, Automation and Electrical Systems, 2017, 28, 552-566.	2.0	7
71	Shortâ€term operation of a distribution company: A pseudoâ€dynamic tabu searchâ€based optimisation. IET Generation, Transmission and Distribution, 2018, 12, 2995-3004.	2.5	7
72	Restoration switching analysis in the integrated architecture for distribution network operation. Electric Power Systems Research, 2021, 194, 107069.	3.6	7

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73	PV hosting capacity assessment in distribution systems considering resilience enhancement. Sustainable Energy, Grids and Networks, 2022, 32, 100829.	3.9	7
74	Decentralized AC power flow for real-time multi-TSO power system operation. , 2010, , .		6
75	Multi Objective Evolutionary Algorithm Applied to the Optimal Power Flow Problem. IEEE Latin America Transactions, 2010, 8, 236-244.	1.6	6
76	Planning Medium-Voltage Electric Power Distribution Systems through a Scatter Search Algorithm. IEEE Latin America Transactions, 2015, 13, 2637-2645.	1.6	6
77	Evaluation of hybrid models for static and multistage transmission system planning. Controle and Automacao, 2007, 18, 106-114.	0.2	6
78	Location of Single Line-to-Ground Faults on Distribution Feeders Using Voltage Measurements. , 2006, , .		5
79	Distribution system restoration in a DG environment using a heuristic constructive multi-start algorithm. , 2010, , .		5
80	Multi-area decentralized optimal VAr planning using the Dantzig-Wolfe decomposition principle. , 2010, , .		5
81	Optimal reactive power planning using two-stage stochastic chance-constrained programming. , 2013, , .		5
82	Active power reserve for frequency control provided by distributed generators in distribution networks. , 2014, , .		5
83	Planning And Project Of Medium Voltage Electric Power Distribution Systems. IEEE Latin America Transactions, 2016, 14, 2298-2308.	1.6	5
84	A demand power factor-based approach for finding the maximum loading point. Electric Power Systems Research, 2017, 151, 283-295.	3.6	5
85	Optimal Power Flow with Renewable Generation: A Modified NSGA-II-based Probabilistic Solution Approach. Journal of Control, Automation and Electrical Systems, 2020, 31, 979-989.	2.0	5
86	A new parallel and decomposition approach to solve the medium- and low-voltage planning of large-scale power distribution systems. International Journal of Electrical Power and Energy Systems, 2021, 132, 107191.	5.5	5
87	Optimal switch allocation for automatic load transfer in distribution substations. , 2011, , .		4
88	Optimal Power Flow with Voltage-Sensitive Loads in Distribution Networks. , 2016, , .		4
89	Control and protection of active distribution systems using a new multiobjective mathematical model. , 2017, , .		4
90	Medium-and Low-voltage Planning of Electric Power Distribution Systems with Distributed Generation, Energy Storage Sources, and Electric Vehicles. , 2019, , .		4

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91	Multiobjective Approach for Medium- and Low-Voltage Planning of Power Distribution Systems Considering Renewable Energy and Robustness. Energies, 2020, 13, 2517.	3.1	4
92	Matheuristic Algorithm Based on Neighborhood Structure to Solve the Reconfiguration Problem of Active Distribution Systems. , 2021, , .		4
93	Convex Formulation for Optimal Active and Reactive Power Dispatch. IEEE Latin America Transactions, 2022, 20, 787-798.	1.6	4
94	Interactive System for Placement and Coordination of Overcurrent Protective Devices. , 2006, , .		3
95	Simulation environment of distance protection with ATP and foreign models. , 2011, , .		3
96	Optimal short-term operation of a DisCo including voltage-sensitive loads. , 2016, , .		3
97	Failure probability metric by machine learning for online risk assessment in distribution networks. , 2017, , .		3
98	Distribution Systems Resilience Improvement Utilizing Multiple Operational Resources. , 2021, , .		3
99	Multiarea optimal power flow using multiobjective evolutionary Algorithm. , 2009, , .		2
100	Fault section estimation in automated distribution substations. , 2009, , .		2
101	Probabilistic Algorithms for Power Load Flow and Short-Circuit Analysis in Distribution Networks with Dispersed Generation. Journal of Control, Automation and Electrical Systems, 2013, 24, 324-338.	2.0	2
102	A novel straightforward compromising method for dynamic economic and emission dispatch considering valve-point effect. , 2013, , .		2
103	Study of the IEC 61850 protocol on multiagent systems for power system applications. , 2015, , .		2
104	Carbon footprint allocation among consumers and transmission losses. , 2017, , .		2
105	Analysis of the Precision of a Second-Order Conic Model to Solve the Optimal Power Dispatch Problem in Electric Power Systems. Journal of Control, Automation and Electrical Systems, 2021, 32, 1356-1364.	2.0	2
106	A proposal for reliability evaluation of components on electric power distribution system integrating probabilistic models and fuzzy inference systems. , 2012, , .		1
107	Unbalanced Three-Phase Induction Motors Starting and Arc Welding Machines Short-Circuit Modeling. IEEE Latin America Transactions, 2012, 10, 2241-2248.	1.6	1
108	Capacity of active power reserve for frequency control enhanced by distributed generators. , 2013, , .		1

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109	Automatic restoration of active distribution networks based on tabu search specialized algorithm. , 2015, , .		1
110	Distribution system state estimation using the Hamiltonian cycle theory. , 2016, , .		1
111	Distribution System Self-Healing Implementation using Decentralized IED-based Multi-Agent System. , 2018, , .		1
112	Robust Short-Term Electrical Distribution Network Planning Considering Simultaneous Allocation of Renewable Energy Sources and Energy Storage Systems. , 2019, , 145-175.		1
113	Increasing the RES Hosting Capacity in Distribution Systems Through Reconfiguration with Closed-Loop Operation and Voltage Control. , 2021, , .		1
114	Mathematical decomposition technique applied to the probabilistic power flow problem. , 2010, , .		0
115	A multiobjective model for distribution system planning based on tabu search. , 2013, , .		0
116	Congestion effects on regional & system emission and consumers allocated cost. , 2013, , .		0
117	Optimal reactive power planning using risk analysis. , 2013, , .		0
118	Efficient forecast system for distributed generators with uncertainties in the primary energy source. , 2013, , .		0
119	Mixed-integer convex model for VAr expansion planning. , 2014, , .		0
120	Optimal Capacitor Placement in Unbalanced Electrical Power Distribution Systems through Differential Evolution Algorithm. , 2019, , .		0
121	Enhancement of the Resilience Through Microgrids Formation and DG Allocation with Master-Slave DG Operation. , 2020, , .		0
122	Short-Term Planning of Electric Power Distribution Networks using Multiobjective Genetic Algorithim. , 2011, , .		0
123	Resilience enhancement in the planning of medium-and low voltage power distribution systems with microgrid formation. , 2021, , .		0