

Carlos Castro

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.

68
papers

718
citations

14
h-index

24
g-index

80
ext. papers

902
ext. citations

3.9
avg, IF

4.32
L-index

#	Paper	IF	Citations
68	Current Status and Perspectives of the Electric Sector in Brazil. <i>IEEE Latin America Transactions</i> , 2021 , 19, 660-668	0.7	
67	Optimal Maintenance Scheduling of Transmission Assets in the Brazilian Electric System. <i>Journal of Control, Automation and Electrical Systems</i> , 2021 , 32, 482-491	1.5	0
66	An efficient hybrid metaheuristics optimization technique applied to the AC electric transmission network expansion planning. <i>Swarm and Evolutionary Computation</i> , 2021 , 61, 100830	9.8	5
65	Allocation of PMU channels at substations for topology processing and state estimation. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 2034-2045	2.5	3
64	Optimal Energy Management of Unbalanced Three-Phase Grid-Connected Microgrids 2019 ,		2
63	Probabilistic OPF Model for Unbalanced Three-Phase Electrical Distribution Systems Considering Robust Constraints. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 3443-3454	7	8
62	Microgrids Energy Management Using Robust Convex Programming. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 4520-4530	10.7	56
61	Transmission Expansion Planning Considering the Impact of Distributed Generation 2019 ,		1
60	AC Transmission Expansion Planning Considering Uncertainty 2019 ,		2
59	Optimal Conductor Size Selection in Radial Distribution Networks Using a Mixed-Integer Non-Linear Programming Formulation. <i>IEEE Latin America Transactions</i> , 2018 , 16, 2213-2220	0.7	8
58	New representation of PV buses in the current injection Newton power flow. <i>International Journal of Electrical Power and Energy Systems</i> , 2017 , 90, 237-244	5.1	7
57	Distribution Systems Operation Considering Energy Storage Devices and Distributed Generation. <i>IEEE Latin America Transactions</i> , 2017 , 15, 890-900	0.7	27
56	Optimal location, sizing and operation of energy storage in distribution systems using multi-objective approach. <i>IEEE Latin America Transactions</i> , 2017 , 15, 1084-1090	0.7	14
55	Optimal probabilistic charging of electric vehicles in distribution systems. <i>IET Electrical Systems in Transportation</i> , 2017 , 7, 246-251	2.1	31
54	Comparison of the dynamic response of wind turbine primary frequency controllers 2017 ,		16
53	Energy management of isolated microgrids using mixed-integer second-order cone programming 2017 ,		2
52	Biogeography based optimization algorithms applied to AC transmission expansion planning 2017 ,		1

51	Mixed integer linear programming formulation for optimal reactive compensation and voltage control of distribution power systems 2017 ,		1
50	Integrated AC/DC transmission expansion planning model considering VSC-MTDC systems 2017 ,		2
49	Genetic algorithm-based phasor measurement unit placement method considering observability and security criteria. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 270-280	2.5	50
48	Optimal allocation of energy storage devices in distribution systems considering lifetime characteristics of batteries 2016 ,		3
47	Voltage stability margin determination using the channel components transform 2015 ,		1
46	Transmission asset maintenance programming optimization - the Brazilian Electric System case. <i>IEEE Latin America Transactions</i> , 2015 , 13, 1414-1420	0.7	1
45	Specialized differential evolution technique to solve the alternating current model based transmission expansion planning problem. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 68, 243-251	5.1	11
44	Expansion planning for smart transmission grids using AC model and shunt compensation. <i>IET Generation, Transmission and Distribution</i> , 2014 , 8, 966-975	2.5	35
43	Practical heuristic approach to solve the Optimal Transmission Switching problem for Smart Grids 2014 ,		1
42	Security constrained transmission expansion planning for smart transmission grids based on the AC network model 2014 ,		3
41	Efficient probabilistic power flow for weakly-meshed distribution networks 2014 ,		2
40	Optimal substation PMU placement method for the two-level state estimator 2013 ,		2
39	A robust power flow approach using synthetic dynamics and optimal multiplier 2013 ,		1
38	Study of particle swarm optimization variations applied to transmission expansion planning 2013 ,		4
37	Robust computation of voltage stability margins for transmission and distribution grids 2013 ,		1
36	Comparison of particle swarm based meta-heuristics for the electric transmission network expansion planning problem 2011 ,		13
35	Practical method for computing the maximum loading point using a load flow with step size optimisation. <i>IET Generation, Transmission and Distribution</i> , 2011 , 5, 1250	2.5	4
34	An efficient method for distribution systems reconfiguration and capacitor placement using a Chu-Beasley based genetic algorithm 2011 ,		8

33	Practical method for computing the maximum loading point based on load flow with step size optimization 2010 ,		1
32	Distribution systems operation optimisation through reconfiguration and capacitor allocation by a dedicated genetic algorithm. <i>IET Generation, Transmission and Distribution</i> , 2010 , 4, 1213	2.5	64
31	2009 ,		1
30	New method based on load flow with step size optimization for calculating the maximum loading point 2009 ,		1
29	Ill-conditioned Optimal Power Flow solutions and performance of non-linear programming solvers 2009 ,		2
28	Multi-criteria contingency ranking method for voltage stability. <i>Electric Power Systems Research</i> , 2009 , 79, 220-225	3.5	14
27	Security constrained optimal active power flow via network model and interior point method. <i>Controle and Automacao</i> , 2009 , 20, 206-216		3
26	Maximization of voltage stability margin by optimal reactive compensation 2008 ,		3
25	Maximum loading point computation based on load flow with step size optimization 2008 ,		4
24	Reconfiguration of distribution systems by a modified genetic algorithm 2007 ,		3
23	Power System Loading Margin Estimation Using a Neuro-Fuzzy Approach. <i>IEEE Transactions on Power Systems</i> , 2007 , 22, 1955-1964	7	17
22	An efficient geometric parameterization technique for the continuation power flow. <i>Electric Power Systems Research</i> , 2007 , 77, 71-82	3.5	17
21	Transient Stability using Energy Function Method in Power Systems Close to Voltage Collapse 2007 ,		2
20	Fast computation of voltage stability security margins using nonlinear programming techniques. <i>IEEE Transactions on Power Systems</i> , 2006 , 21, 19-27	7	38
19	Voltage stability security margin assessment via artificial neural networks 2005 ,		2
18	Power flow model based on artificial neural networks 2005 ,		3
17	Parameterized fast decoupled power flow methods for obtaining the maximum loading point of power systems: Part I. Mathematical modeling. <i>Electric Power Systems Research</i> , 2004 , 69, 93-104	3.5	10
16	Parameterized fast decoupled power flow methods for obtaining the maximum loading point of power systems. <i>Electric Power Systems Research</i> , 2004 , 69, 85-92	3.5	2

15	A critical evaluation of a maximum loading point estimation method for voltage stability analysis. <i>Electric Power Systems Research</i> , 2004 , 70, 195-202	3.5	5
14	Real power losses reduction and loading margin improvement via continuation method. <i>IEEE Transactions on Power Systems</i> , 2004 , 19, 1690-1692	7	10
13	A lecture on autotransformers for power engineering students. <i>IEEE Transactions on Education</i> , 2003 , 46, 373-378	2.1	0
12	Alternative parameters for the continuation power flow method. <i>Electric Power Systems Research</i> , 2003 , 66, 105-113	3.5	8
11	Continuation fast decoupled power flow with secant predictor. <i>IEEE Transactions on Power Systems</i> , 2003 , 18, 1078-1085	7	40
10	A new efficient nonlinear programming based method for branch overload elimination. <i>Controle and Automacao</i> , 2003 , 14, 76-82		1
9	Improved method for the calculation of power systems low voltage solutions. <i>International Journal of Electrical Power and Energy Systems</i> , 2002 , 24, 503-513	5.1	5
8	A New Efficient Nonlinear Programming-Based Method for Branch Overload Elimination. <i>Electric Power Components and Systems</i> , 2002 , 30, 525-537	1	
7	A critical evaluation of step size optimization based load flow methods. <i>IEEE Transactions on Power Systems</i> , 2000 , 15, 202-207	7	77
6	Comparison of compensation methods applied to the analysis of topological changes in electrical networks. <i>International Journal of Electrical Power and Energy Systems</i> , 1997 , 19, 511-518	5.1	1
5	Comparison of different screening techniques for the contingency selection function. <i>International Journal of Electrical Power and Energy Systems</i> , 1996 , 18, 425-430	5.1	5
4	. <i>IEEE Transactions on Power Systems</i> , 1994 , 9, 1651-1657	7	12
3	. <i>IEEE Transactions on Power Systems</i> , 1993 , 8, 807-814	7	12
2	An efficient reconfiguration algorithm for loss reduction of distribution systems. <i>Electric Power Systems Research</i> , 1990 , 19, 137-144	3.5	25
1	Transmission Expansion Planning by using DC and AC Models and Particle Swarm Optimization	260-284	2