Cristina GonzÃ¡lez-MorÃ¡n

List of Publications by Year
in descending order

43 papers	820 citations	687363 13 h-index	501196 28 g-index
43 all docs	43 docs citations	43 times ranked	938 citing authors

#	Article	IF	Citations
1	Scheduling of Droop Coefficients for Frequency and Voltage Regulation in Isolated Microgrids. IEEE Transactions on Power Systems, 2010, 25, 489-496.	6.5	184
2	An improved control scheme based in droop characteristic for microgrid converters. Electric Power Systems Research, 2010, 80, 1215-1221.	3.6	101
3	Complex-Valued State Matrices for Simple Representation of Large Autonomous Microgrids Supplied by PQ and Vf Generation. IEEE Transactions on Power Systems, 2009, 24, 1720-1730.	6.5	69
4	Efficient Energy Management in Smart Micro-Grids: ZERO Grid Impact Buildings. IEEE Transactions on Smart Grid, 2015, 6, 1055-1063.	9.0	62
5	Composite Loads in Stand-Alone Inverter-Based Microgridsâ€"Modeling Procedure and Effects on Load Margin. IEEE Transactions on Power Systems, 2010, 25, 894-905.	6.5	38
6	Fischer-Burmeister-Based Method for Calculating Equilibrium Points of Droop-Regulated Microgrids. IEEE Transactions on Power Systems, 2012, 27, 959-967.	6.5	38
7	BFS Algorithm for Voltage-Constrained Meshed DC Traction Networks With Nonsmooth Voltage-Dependent Loads and Generators. IEEE Transactions on Power Systems, 2016, 31, 1526-1536.	6.5	38
8	Unbalanced Power Flow in Distribution Systems With Embedded Transformers Using the Complex Theory in <formula formulatype="inline"> <tex Notation="TeX">$alpha eta 0;$</tex></formula> Stationary Reference Frame. IEEE Transactions on Power Systems, 2014, 29, 1012-1022.	6.5	36
9	Modified Current Injection Method for Power Flow Analysis in Heavy-Meshed DC Railway Networks With Nonreversible Substations. IEEE Transactions on Vehicular Technology, 2017, 66, 7688-7696.	6.3	28
10	Optimization approach to unified AC/DC power flow applied to traction systems with catenary voltage constraints. International Journal of Electrical Power and Energy Systems, 2013, 53, 434-441.	5.5	19
11	On board accumulator model for power flow studies in DC traction networks. Electric Power Systems Research, 2014, 116, 266-275.	3.6	18
12	Revision of the hysteresis and excess loss computation method as a means of improving the rotational loss estimate in induction motors. IET Electric Power Applications, 2007, 1, 75.	1.8	16
13	Matrix Backward Forward Sweep for Unbalanced Power Flow in Î±Î² 0 frame. Electric Power Systems Research, 2017, 148, 273-281.	3.6	15
14	A Solution to the Dilemma Inrush/Fault in Transformer Differential Relaying Using MRA and Wavelets. Electric Power Components and Systems, 2006, 34, 285-301.	1.8	13
15	Analytical Interpretation and Quantification of Rotational Losses in Stator Cores of Induction Motors. IEEE Transactions on Magnetics, 2007, 43, 3861-3867.	2.1	13
16	Operating point of islanded microgrids consisting of conventional doubly fed induction generators and distributed supporting units. IET Renewable Power Generation, 2012, 6, 303-314.	3.1	13
17	High-Speed 2 Ã— 25 kV Traction System Model and Solver for Extensive Network Simulations. IEEE Transactions on Power Systems, 2019, 34, 3837-3847.	6.5	13
18	An improved control scheme based in droop characteristic control for microgrid converters. , 2009, , .		12

#	Article	IF	Citations
19	Impact Evaluation of the New Self-Consumption Spanish Scenario on the Low-Voltage Terminal Distribution Network. IEEE Transactions on Industry Applications, 2019, 55, 7230-7239.	4.9	11
20	Stateâ€space representation of DFIGâ€based wind power plants. IET Renewable Power Generation, 2013, 7, 254-264.	3.1	10
21	Hierarchical coordination of a hybrid AC/DC smartgrid with central/distributed energy storage. , 2016, , .		10
22	Modeling FACTS for power flow purposes: A common framework. International Journal of Electrical Power and Energy Systems, 2014, 63, 293-301.	5.5	9
23	Characterization of Flux Rotation and of the Ensuing Core Losses in the Stator of Induction Motors. IEEE Transactions on Energy Conversion, 2008, 23, 34-41.	5.2	8
24	A hybrid central-distributed control applied to microgrids with droop characteristic based generators. , 2012, , .		8
25	Distributed resources coordination inside nearly-zero energy buildings providing grid voltage support from a symmetrical component perspective. Electric Power Systems Research, 2017, 144, 208-214.	3.6	8
26	4-Node Test Feeder with Step Voltage Regulators. International Journal of Electrical Power and Energy Systems, 2018, 94, 245-255.	5.5	6
27	Fuzzy-clustering as a tool for magnetic losses analysis in induction machines. , 2008, , .		3
28	An inrush current limiter as a solution of injection transformer oversizing in dynamic voltage restores. , 2009, , .		3
29	Step-Voltage Regulator Model Test System. , 2015, , .		3
30	Classification of rotational losses zones in stator cores of induction motors using fuzzy-clustering. , 2008, , .		2
31	A semiconductor H-bridge connection to avoid saturation in current transformers for differential protection. Electric Power Systems Research, 2012, 84, 120-127.	3.6	2
32	ZERO network-impact buildings and smart storage systems in micro-grids. , 2013, , .		2
33	Stepped Leader Progression and Speed Evolution in a Thunderstorm: Theoretical Model. Energies, 2019, 12, 2507.	3.1	2
34	Decomposition of fault currents in power transformers into suitable sets of components for application to fault characterization and modelling. Electric Power Systems Research, 2007, 77, 328-338.	3.6	1
35	On the Use of Graph Theory for Railway Power Supply Systems Characterization. Intelligent Industrial Systems, 2015, 1, 127-139.	1.0	1
36	Efficiency Comparison in Power Converters Under Transient Operation Conditions: Application to Hybrid Energy Storage Systems. , 2018, , .		1

#	Article	IF	Citations
37	Theoretical Model for the Progression of Leader Steppers in a Thundercloud. , 2018, , .		1
38	Empowering International, Intersectoral and Interdisciplinary Dimensions in Higher Education: The STEPS and EECPS Master Courses Experience. , 2019, , .		1
39	Photovoltaic self consumption analysis in a European low voltage feeder. Electric Power Systems Research, 2021, 194, 107087.	3.6	1
40	High-Speed 2 Ã— 25 kV Traction System Model and Solver for Extensive Network Simulations. , 2020, , .		1
41	Self-supply and net balance: The Spanish scenario. , 2013, , .		0
42	Assessing the effect of nearly-zero energy buildings on distribution systems by means of quasi-static time series power flow simulations. , 2017, , .		0
43	Optimal Tap Configuration for Step-Voltage Regulators Applied to Residential Feeders. , 2018, , .		0