

Cristina González-Morán

List of Publications by Year in descending order

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43
papers

820
citations

687363

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501196

28
g-index

43
all docs

43
docs citations

43
times ranked

938
citing authors

#	ARTICLE	IF	CITATIONS
1	Photovoltaic self consumption analysis in a European low voltage feeder. Electric Power Systems Research, 2021, 194, 107087.	3.6	1
2	High-Speed 2 Å– 25 kV Traction System Model and Solver for Extensive Network Simulations. , 2020, , .		1
3	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
4	Stepped Leader Progression and Speed Evolution in a Thunderstorm: Theoretical Model. Energies, 2019, 12, 2507.	3.1	2
5	High-Speed 2 Å– 25 kV Traction System Model and Solver for Extensive Network Simulations. IEEE Transactions on Power Systems, 2019, 34, 3837-3847.	6.5	13
6	Empowering International, Intersectoral and Interdisciplinary Dimensions in Higher Education: The STEPS and EECPS Master Courses Experience. , 2019, , .		1
7	4-Node Test Feeder with Step Voltage Regulators. International Journal of Electrical Power and Energy Systems, 2018, 94, 245-255.	5.5	6
8	Optimal Tap Configuration for Step-Voltage Regulators Applied to Residential Feeders. , 2018, , .		0
9	Efficiency Comparison in Power Converters Under Transient Operation Conditions: Application to Hybrid Energy Storage Systems. , 2018, , .		1
10	Theoretical Model for the Progression of Leader Steppers in a Thundercloud. , 2018, , .		1
11	Matrix Backward Forward Sweep for Unbalanced Power Flow in $\hat{1}\pm\hat{1}^2$ 0 frame. Electric Power Systems Research, 2017, 148, 273-281.	3.6	15
12	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
13	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
14	Assessing the effect of nearly-zero energy buildings on distribution systems by means of quasi-static time series power flow simulations. , 2017, , .		0
15	Hierarchical coordination of a hybrid AC/DC smartgrid with central/distributed energy storage. , 2016, , .		10
16	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
17	Efficient Energy Management in Smart Micro-Grids: ZERO Grid Impact Buildings. IEEE Transactions on Smart Grid, 2015, 6, 1055-1063.	9.0	62
18	On the Use of Graph Theory for Railway Power Supply Systems Characterization. Intelligent Industrial Systems, 2015, 1, 127-139.	1.0	1

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19	Step-Voltage Regulator Model Test System. , 2015, , .		3
20	Unbalanced Power Flow in Distribution Systems With Embedded Transformers Using the Complex Theory in α Notation; Stationary Reference Frame. IEEE Transactions on Power Systems, 2014, 29, 1012-1022.	6.5	36
21	Modeling FACTS for power flow purposes: A common framework. International Journal of Electrical Power and Energy Systems, 2014, 63, 293-301.	5.5	9
22	On board accumulator model for power flow studies in DC traction networks. Electric Power Systems Research, 2014, 116, 266-275.	3.6	18
23	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
24	State-space representation of DFIG-based wind power plants. IET Renewable Power Generation, 2013, 7, 254-264.	3.1	10
25	Self-supply and net balance: The Spanish scenario. , 2013, , .		0
26	ZERO network-impact buildings and smart storage systems in micro-grids. , 2013, , .		2
27	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
28	Fischer-Burmeister-Based Method for Calculating Equilibrium Points of Droop-Regulated Microgrids. IEEE Transactions on Power Systems, 2012, 27, 959-967.	6.5	38
29	A hybrid central-distributed control applied to microgrids with droop characteristic based generators. , 2012, , .		8
30	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
31	An improved control scheme based in droop characteristic for microgrid converters. Electric Power Systems Research, 2010, 80, 1215-1221.	3.6	101
32	Scheduling of Droop Coefficients for Frequency and Voltage Regulation in Isolated Microgrids. IEEE Transactions on Power Systems, 2010, 25, 489-496.	6.5	184
33	Composite Loads in Stand-Alone Inverter-Based Microgrids Modeling Procedure and Effects on Load Margin. IEEE Transactions on Power Systems, 2010, 25, 894-905.	6.5	38
34	Complex-Valued State Matrices for Simple Representation of Large Autonomous Microgrids Supplied by PQ and V _f Generation. IEEE Transactions on Power Systems, 2009, 24, 1720-1730.	6.5	69
35	An inrush current limiter as a solution of injection transformer oversizing in dynamic voltage restores. , 2009, , .		3
36	An improved control scheme based in droop characteristic control for microgrid converters. , 2009, , .		12

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37	Fuzzy-clustering as a tool for magnetic losses analysis in induction machines. , 2008, , .		3
38	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
39	Classification of rotational losses zones in stator cores of induction motors using fuzzy-clustering. , 2008, , .		2
40	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
41	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
42	Analytical Interpretation and Quantification of Rotational Losses in Stator Cores of Induction Motors. IEEE Transactions on Magnetics, 2007, 43, 3861-3867.	2.1	13
43	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