

LuÃ-s Rouco RodrÃ-guez

List of Publications by Year in descending order

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38
papers

976
citations

471509

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g-index

38
all docs

38
docs citations

38
times ranked

984
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy storage systems providing primary reserve and peak shaving in small isolated power systems: An economic assessment. International Journal of Electrical Power and Energy Systems, 2013, 53, 675-683.	5.5	104
2	Active Power Control Strategies for Transient Stability Enhancement of AC/DC Grids With VSC-HVDC Multi-Terminal Systems. IEEE Transactions on Power Systems, 2016, 31, 4595-4604.	6.5	85
3	An overview of ancillary services in Spain. Electric Power Systems Research, 2008, 78, 515-523.	3.6	82
4	A Method for the Design of UFLS Schemes of Small Isolated Power Systems. IEEE Transactions on Power Systems, 2012, 27, 951-958.	6.5	71
5	Reactive-Power Coordination in VSC-HVDC Multi-Terminal Systems for Transient Stability Improvement. IEEE Transactions on Power Systems, 2017, 32, 3758-3767.	6.5	71
6	A review of the state of the art of UFLS schemes for isolated power systems. International Journal of Electrical Power and Energy Systems, 2018, 99, 525-539.	5.5	50
7	Large-Scale Power System Dynamic Equivalents Based on Standard and Border Synchrony. IEEE Transactions on Power Systems, 2010, 25, 1873-1882.	6.5	43
8	Sizing and Controller Setting of Ultracapacitors for Frequency Stability Enhancement of Small Isolated Power Systems. IEEE Transactions on Power Systems, 2015, 30, 2130-2138.	6.5	43
9	Principles of a Centralized UFLS Scheme for Small Isolated Power Systems. IEEE Transactions on Power Systems, 2013, 28, 1779-1786.	6.5	40
10	A Sensitivities Computation Method for Reconfiguration of Radial Networks. IEEE Transactions on Power Systems, 2012, 27, 1294-1301.	6.5	38
11	Representative Operating and Contingency Scenarios for the Design of UFLS Schemes. IEEE Transactions on Power Systems, 2010, 25, 906-913.	6.5	32
12	On the Convergence of the Sequential Power Flow for Multiterminal VSC AC/DC Systems. IEEE Transactions on Power Systems, 2018, 33, 1768-1776.	6.5	28
13	European balancing markets. , 2011, , .		25
14	On Scalability and Replicability of Smart Grid Projects—A Case Study. Energies, 2016, 9, 195.	3.1	24
15	On the Assignment of Voltage Control Ancillary Service of Generators in Spain. IEEE Transactions on Power Systems, 2007, 22, 367-375.	6.5	23
16	Performance Analysis of UFLS Schemes of Small Isolated Power Systems. IEEE Transactions on Power Systems, 2012, 27, 1673-1680.	6.5	23
17	The Spanish AGC System: Description and Analysis. IEEE Transactions on Power Systems, 2009, 24, 271-278.	6.5	21
18	A Monovoltage Equivalent Model of Bi-Voltage Autotransformer-Based Electrical Systems in Railways. IEEE Transactions on Power Delivery, 2012, 27, 699-708.	4.3	19

#	ARTICLE	IF	CITATIONS
19	Coordinated Design of Supplementary Controllers in VSC-HVDC Multi-Terminal Systems to Damp Electromechanical Oscillations. IEEE Transactions on Power Systems, 2021, 36, 712-721.	6.5	17
20	Use of energy storage systems for peak shaving in the Spanish Canary Islands. , 2013, , .		15
21	A fundamental study on the impact of HVDC lines on transient stability of power systems. , 2015, , .		15
22	Coordinated Control in VSC-HVDC Multi-Terminal Systems to Improve Transient Stability: The Impact of Communication Latency. Energies, 2019, 12, 3638.	3.1	15
23	Modeling, Sizing, and Control of an Excitation Booster for Enhancement of Synchronous Generators Fault Ride-Through Capability: Experimental Validation. IEEE Transactions on Energy Conversion, 2016, 31, 1304-1314.	5.2	13
24	An induction motor model for system frequency response models. International Transactions on Electrical Energy Systems, 2017, 27, e2413.	1.9	11
25	Frequency stability boundary of small isolated power systems. , 2010, , .		9
26	Active and reactive power control of battery energy storage systems in weak grids. , 2013, , .		9
27	Elimination of voltage violations in the Spanish electricity market. Electric Power Systems Research, 2005, 75, 110-115.	3.6	7
28	Robust coordinated tuning of parameters of standard Power System Stabilizers for local and global grid objectives. , 2009, , .		7
29	Start-Up Decision of a Rapid-Start Unit for AGC Based on Machine Learning. IEEE Transactions on Power Systems, 2013, 28, 3834-3841.	6.5	7
30	Linear Power Flow Algorithm With Losses for Multi-Terminal VSC AC/DC Power Systems. IEEE Transactions on Power Systems, 2022, 37, 1739-1749.	6.5	7
31	Optimal Participation of Heterogeneous, RES-Based Virtual Power Plants in Energy Markets. Energies, 2022, 15, 3207.	3.1	7
32	Design of UFLS schemes taking into account load variation. , 2014, , .		6
33	Design of damping controllers for doubly fed induction generators using eigenvalue sensitivities. , 2009, , .		5
34	Dynamic Patterns in Small-signal Models of Multipole Synchronous Generators for Wind Power Applications. , 2007, , .		2
35	Representative contingency identification using data mining. , 2008, , .		1
36	A simplified approach to detect undervoltage tripping of wind generators. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
37	Damping Electromechanical Oscillations with Both Ratio and Phase Modulation of Static Synchronous Series Sources: Controller Design. , 2007, , .		0
38	Enhanced pan-European transmission planning methodology. , 2015, , .		0