

JosÃ© L Rueda

List of Publications by Year in descending order

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72
papers

1,224
citations

567281

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434195

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74
all docs

74
docs citations

74
times ranked

1158
citing authors

#	ARTICLE	IF	CITATIONS
1	Wavelet-Based Analysis of Power System Low-Frequency Electromechanical Oscillations. IEEE Transactions on Power Systems, 2011, 26, 1733-1743.	6.5	119
2	Assessment and Enhancement of Small Signal Stability Considering Uncertainties. IEEE Transactions on Power Systems, 2009, 24, 198-207.	6.5	115
3	Forecasting the load of electrical power systems in mid- and long-term horizons: a review. IET Generation, Transmission and Distribution, 2016, 10, 3971-3977.	2.5	105
4	Daily-seasonal operation in net-zero energy building powered by hybrid renewable energies and hydrogen storage systems. Energy Conversion and Management, 2019, 201, 112156.	9.2	83
5	Optimal Allocation and Sizing of Dynamic Var Sources Using Heuristic Optimization. IEEE Transactions on Power Systems, 2015, 30, 2538-2546.	6.5	62
6	Modelling and evaluation of PEM hydrogen technologies for frequency ancillary services in future multi-energy sustainable power systems. Heliyon, 2019, 5, e01396.	3.2	53
7	Modelling of large-sized electrolyzers for real-time simulation and study of the possibility of frequency support by electrolyzers. IET Generation, Transmission and Distribution, 2020, 14, 1985-1992.	2.5	50
8	Evaluating the Mean-Variance Mapping Optimization on the IEEE-CEC 2014 test suite. , 2014, , .		42
9	Time horizons in the planning and operation of transmission networks: an overview. IET Generation, Transmission and Distribution, 2016, 10, 841-848.	2.5	40
10	A Key Performance Indicator to Assess the Frequency Stability of Wind Generation Dominated Power System. IEEE Access, 2019, 7, 130957-130969.	4.2	40
11	Online Optimal Control of Reactive Sources in Wind Power Plants. IEEE Transactions on Sustainable Energy, 2014, 5, 608-616.	8.8	32
12	Testing MVMO on learning-based real-parameter single objective benchmark optimization problems. , 2015, , .		30
13	Impact of large offshore wind farms on power system transient stability. , 2009, , .		28
14	Impacts of large scale integration of wind power on power system small-signal stability. , 2011, , .		24
15	Hybrid Approach for Power System Operational Planning With Smart Grid and Small-Signal Stability Enhancement Considerations. IEEE Transactions on Smart Grid, 2013, 4, 530-539.	9.0	20
16	Heuristic optimization based approach for identification of power system dynamic equivalents. International Journal of Electrical Power and Energy Systems, 2015, 64, 185-193.	5.5	20
17	Fundamental study on the influence of dynamic load and distributed energy resources on power system short-term voltage stability. International Journal of Electrical Power and Energy Systems, 2021, 131, 107141.	5.5	19
18	Long-Term Electricity Load Forecasting Considering Volatility Using Multiplicative Error Model. Energies, 2018, 11, 3308.	3.1	18

#	ARTICLE	IF	CITATIONS
19	Solving the IEEE-CEC 2014 expensive optimization test problems by using single-particle MVMO. , 2014, , .		15
20	Data-mining-based approach for predicting the power system post-contingency dynamic vulnerability status. International Transactions on Electrical Energy Systems, 2015, 25, 2515-2546.	1.9	15
21	Critical Review of Mitigation Solutions for SSO in Modern Transmission Grids. Energies, 2020, 13, 3449.	3.1	15
22	Validation of EMT Digital Twin Models for Dynamic Voltage Performance Assessment of 66 kV Offshore Transmission Network. Applied Sciences (Switzerland), 2021, 11, 244.	2.5	15
23	Reliability of Transmission Links Consisting of Overhead Lines and Underground Cables. IEEE Transactions on Power Delivery, 2016, 31, 1251-1260.	4.3	14
24	Optimal Under-Frequency Load Shedding Setting at Altai-Uliastai Regional Power System, Mongolia. Energies, 2020, 13, 5390.	3.1	14
25	FAPF Controller for Frequency Support in Low-Inertia Power Systems. IEEE Open Access Journal of Power and Energy, 2020, 7, 276-286.	3.4	13
26	Fast Active Power-Frequency Support Methods by Large Scale Electrolyzers for Multi-Energy Systems. , 2020, , .		13
27	Determination of Maximum Wind Power Penetration Considering Wind Turbine Fast Frequency Response. , 2019, , .		12
28	Transient Stability Performance of Power Systems with High Share of Wind Generators Equipped with Power-Angle Modulation Controllers or Fast Local Voltage Controllers. Energies, 2020, 13, 4205.	3.1	12
29	Optimal transmission expansion planning using Mean-Variance Mapping Optimization. , 2012, , .		11
30	Optimal fault ride through compliance of offshore wind power plants with VSC-HVDC connection by meta-heuristic based tuning. Electric Power Systems Research, 2017, 145, 99-111.	3.6	11
31	Risk-based security assessment of transmission line overloading considering spatio-temporal dependence of load and wind power using vine copula. IET Renewable Power Generation, 2019, 13, 1770-1779.	3.1	11
32	Probabilistic Reliability Analysis of Power Systems. , 2020, , .		11
33	Modeling and Optimal Tuning of Hybrid ESS Supporting Fast Active Power Regulation of Fully Decoupled Wind Power Generators. IEEE Access, 2021, 9, 46409-46421.	4.2	11
34	A Power Hardware-in-the-Loop Based Method for FAPR Compliance Testing of the Wind Turbine Converters Control. Energies, 2020, 13, 5203.	3.1	10
35	Microsecond Enhanced Indirect Model Predictive Control for Dynamic Power Management in MMC Units. Energies, 2021, 14, 3318.	3.1	10
36	Comprehensive Review of Short-Term Voltage Stability Evaluation Methods in Modern Power Systems. Energies, 2021, 14, 4076.	3.1	10

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37	Classification, domains and risk assessment in asset management: A literature study. , 2015, , .		9
38	MPC Based Centralized Voltage and Reactive Power Control for Active Distribution Networks. IEEE Transactions on Energy Conversion, 2021, 36, 1537-1547.	5.2	9
39	Hybrid Single Parent-Offspring MVMO for Solving CEC2018 Computationally Expensive Problems. , 2018, , .		8
40	A Fundamental Study on the Transient Stability of Power Systems with High Shares of Solar PV Plants. Electricity, 2020, 1, 62-86.	2.8	7
41	Assessment of Daily Cost of Reactive Power Procurement by Smart Inverters. Energies, 2021, 14, 4834.	3.1	7
42	MVMO-Based Identification of Key Input Variables and Design of Decision Trees for Transient Stability Assessment in Power Systems With High Penetration Levels of Wind Power. Frontiers in Energy Research, 2020, 8, .	2.3	5
43	Enhanced wavelet-based method for modal identification from power system ringdowns. , 2011, , .		4
44	Application of Swarm Mean-Variance Mapping Optimization on location and tuning damping controllers. , 2015, , .		4
45	Reliability analysis of offshore grids" An overview of recent research. Wiley Interdisciplinary Reviews: Energy and Environment, 2019, 8, e309.	4.1	4
46	Power-Angle Modulation Controller to Support Transient Stability of Power Systems Dominated by Power Electronic Interfaced Wind Generation. Energies, 2020, 13, 3178.	3.1	4
47	MOSAİK and FMI-Based Co-Simulation Applied to Transient Stability Analysis of Grid-Forming Converter Modulated Wind Power Plants. Applied Sciences (Switzerland), 2021, 11, 2410.	2.5	4
48	Systematic Procedure for Mitigating DFIG-SSR Using Phase Imbalance Compensation. IEEE Transactions on Sustainable Energy, 2022, 13, 101-110.	8.8	4
49	EMT Real-Time Simulation Model of a 2 GW Offshore Renewable Energy Hub Integrating Electrolysers. Energies, 2021, 14, 8547.	3.1	4
50	Identification of Dynamic Equivalents of Active Distribution Networks through MVMO. IFAC-PapersOnLine, 2016, 49, 262-267.	0.9	3
51	Generic model of a VSC-based HVDC link for RMS simulations in PSS/E. IFAC-PapersOnLine, 2018, 51, 303-308.	0.9	3
52	Optimal Linear Control of Modular Multi-Level Converters with a Prescribed Degree of Stability. Electric Power Components and Systems, 2020, 48, 30-41.	1.8	3
53	Generic EMT Model for Real-Time Simulation of Large Disturbances in 2 GW Offshore HVAC-HVDC Renewable Energy Hubs. Energies, 2021, 14, 757.	3.1	3
54	Analysis and tuning methodology of FAPI controllers for maximising the share of grid-connected wind generations. IET Renewable Power Generation, 2020, 14, 3816-3823.	3.1	3

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55	Cyber-Physical System Modeling for Assessment and Enhancement of Power Grid Cyber Security, Resilience, and Reliability. , 2020, , 237-270.		3
56	Evaluation of Phase Imbalance Compensation for Mitigating DFIG-Series Capacitor Interaction. Energies, 2020, 13, 4512.	3.1	2
57	Power Hardware-in-the-Loop-Based Performance Analysis of Different Converter Controllers for Fast Active Power Regulation in Low-Inertia Power Systems. Energies, 2021, 14, 3274.	3.1	2
58	Dynamic Frequency Support for Low Inertia Power Systems by Renewable Energy Hubs with Fast Active Power Regulation. Electronics (Switzerland), 2021, 10, 1651.	3.1	2
59	Impact of Modelling Assumptions on the Voltage Stability Assessment of Active Distribution Grids. , 2020, , .		2
60	Economic outage scheduling of transmission line for long-term horizon under demand and wind scenarios. , 2018, , .		1
61	Directional derivative-based method for quasi-stationary voltage support analysis of single-feed VSC-HVDC units. High Voltage, 2020, 5, 511-522.	4.7	1
62	Hybrid intervention scheme-based optimization algorithm for real-time management of reactive power resources. Automatisierungstechnik, 2017, 65, 737-748.	0.8	0
63	Intervention scheme based heuristic optimizer for online reactive power management. , 2017, , .		0
64	Comparative Assessment of Topologies for an Offshore Transnational Grid in the North Sea. , 2018, , .		0
65	Spatio-temporal study for modeling high dimensional future uncertainties: Univariate to multivariate model. , 2018, , .		0
66	Extra-High-Voltage Underground Cables. , 2020, , 209-236.		0
67	Reliability Models of Large Systems. , 2020, , 129-176.		0
68	Probabilistic Power Flow Analysis. , 2020, , 179-208.		0
69	Power System Failures. , 2020, , 23-53.		0
70	Reliability Models of Small Systems. , 2020, , 91-127.		0
71	Reliability Models of Components. , 2020, , 57-90.		0
72	Configuration of the Actor and Critic Network of the Deep Reinforcement Learning controller for Multi-Energy Storage System. , 2022, , .		0