

Milan Prodanovic

List of Publications by Year in descending order

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85
papers

5,731
citations

331670

21
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265206

42
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all docs

85
docs citations

85
times ranked

4256
citing authors

#	ARTICLE	IF	CITATIONS
1	Model Predictive Control for PMSG-Based Wind Turbines With Overmodulation and Adjustable Dynamic Response Time. IEEE Transactions on Industrial Electronics, 2022, 69, 1573-1585.	7.9	13
2	A Two-Layer Near-Optimal Strategy for Substation Constraint Management via Home Batteries. IEEE Transactions on Industrial Electronics, 2022, 69, 8566-8578.	7.9	5
3	Multivector Model Predictive Power Control for Grid Connected Converters in Renewable Power Plants. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1466-1478.	5.4	16
4	Influence of the Phase-Locked Loop on the Design of Microgrids Formed by Diesel Generators and Grid-Forming Converters. IEEE Transactions on Power Electronics, 2022, 37, 5122-5137.	7.9	10
5	Bifurcation Analysis of Active Electrical Distribution Networks Considering Load Tap Changers and Power Converter Capacity Limits. IEEE Transactions on Power Electronics, 2022, 37, 7230-7246.	7.9	5
6	Modelling Power-Frequency Interactions between Voltage Source Converters with PLLs and Power Networks with Reduced Inertia. , 2021, , .		1
7	Converter-Based Solution for Cancellation of Subsynchronous Oscillations in Local Power Grids. , 2021, , .		1
8	Stability analysis and hierarchical control of DC power networks. , 2021, , 215-244.		1
9	Emulation of Complex Grid Scenarios by using Power Hardware In the Loop (PHIL) Techniques. , 2021, , .		6
10	Virtual Admittance Control for Providing Voltage Support using Converter Interfaced Generation. , 2021, , .		4
11	Virtual Impedance Design Considerations for Virtual Synchronous Machines in Weak Grids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1477-1489.	5.4	52
12	Coupling of AC Grids via VSC-HVDC Interconnections for Oscillation Damping Based on Differential and Common Power Control. IEEE Transactions on Power Electronics, 2020, 35, 6548-6558.	7.9	13
13	Influence of PLL Parameters on Small-Signal Stability of Microgrids with Synchronous Generators. , 2020, , .		4
14	Contribution of active management technologies to the reliability of power distribution networks. Applied Energy, 2020, 267, 114919.	10.1	11
15	Virtual Friction for Oscillation Damping and Inertia Sharing from Multi-Terminal VSC-HVDC Grids. , 2020, , .		2
16	Bifurcation Analysis of Converter-Dominated Electrical Distribution Systems. , 2020, , .		2
17	Analysis of Dynamic Properties of VSCs Connected to Weak Grids Including the Effects of Dead Time and Time Delays. IEEE Transactions on Sustainable Energy, 2019, 10, 1066-1075.	8.8	18
18	Design and Analysis of a Current-Controlled Virtual Synchronous Machine for Weak Grids. , 2019, , .		1

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19	Design and Analysis of Virtual Synchronous Machines in Inductive and Resistive Weak Grids. IEEE Transactions on Energy Conversion, 2019, 34, 1818-1828.	5.2	46
20	Reliability Assessment of Distribution Networks with Optimal Coordination of Distributed Generation, Energy Storage and Demand Management. Energies, 2019, 12, 3202.	3.1	10
21	Analytical methodology for reliability assessment of distribution networks with energy storage in islanded and emergency-tie restoration modes. International Journal of Electrical Power and Energy Systems, 2019, 107, 735-744.	5.5	18
22	Parallel current-controlled synchronverters for voltage and frequency regulation in weak grids. Journal of Engineering, 2019, 2019, 3516-3520.	1.1	9
23	Finite-Gain Repetitive Controller for Harmonic Sharing Improvement in a VSM Microgrid. IEEE Transactions on Smart Grid, 2019, 10, 6898-6911.	9.0	5
24	Virtual Friction Control for Power System Oscillation Damping with VSC-HVDC Links. , 2019, , .		2
25	Full-State Feedback Control of Back-to-Back Converters Based on Differential and Common Power Concepts. IEEE Transactions on Industrial Electronics, 2019, 66, 9045-9055.	7.9	22
26	Harmonic Virtual Impedance Design for Parallel-Connected Grid-Tied Synchronverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 493-503.	5.4	27
27	A survey of reliability assessment techniques for modern distribution networks. Renewable and Sustainable Energy Reviews, 2018, 91, 344-357.	16.4	55
28	Parallel Statistical Model Checking for Safety Verification in Smart Grids. , 2018, , .		13
29	Phase-Matched Frequency Adaptive Repetitive Controller for a Grid-Supporting STATCOM. , 2018, , .		0
30	Virtual Synchronous Machine Control of VSC HVDC for Power System Oscillation Damping. , 2018, , .		11
31	LTCL-Filter Active-Damping Design Considerations for Low-Switching-Frequency Grid-Tied VSCs. , 2018, , .		1
32	Small-Signal Modelling and Control Design of VSCs in Multi-Terminal Railway Applications. , 2018, , .		0
33	A Comparison of The Renewable Distributed Generation Models used in Reliability Assessment. , 2018, , .		0
34	Multi-nodal short-term energy forecasting using smart meter data. IET Generation, Transmission and Distribution, 2018, 12, 2988-2994.	2.5	14
35	Finite-gain-current repetitive controller for synchronverters with harmonic-sharing capabilities. , 2018, , .		2
36	An optimal day-ahead load scheduling approach based on the flexibility of aggregate demands. Applied Energy, 2017, 198, 1-11.	10.1	96

#	ARTICLE	IF	CITATIONS
37	Real-Time Power-Hardware-in-the-Loop Implementation of Variable-Speed Wind Turbines. IEEE Transactions on Industrial Electronics, 2017, 64, 1893-1904.	7.9	82
38	Residential Demand Management Using Individualized Demand Aware Price Policies. IEEE Transactions on Smart Grid, 2017, 8, 1284-1294.	9.0	52
39	Estimation and sensitivity analysis of building energy demand. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2017, 170, 81-92.	0.7	4
40	Harmonic virtual impedance design for a synchronverter-based battery interface converter. , 2017, , .		10
41	A rapid prototyping environment for DC and AC microgrids: Smart energy integration Lab (SEIL). , 2017, , .		19
42	Stability analysis for weak meshed networks with power electronics-based distributed generation. , 2017, , .		2
43	Analytical method to assess the impact of distributed generation and energy storage on reliability of supply. CIRED - Open Access Proceedings Journal, 2017, 2017, 2092-2096.	0.1	12
44	Detailed discrete-time implementation of a battery-supported synchronverter for weak grids. , 2017, , .		11
45	Two-Stage Optimization for Building Energy Management. Smart Innovation, Systems and Technologies, 2017, , 225-243.	0.6	2
46	Stability analysis for weak grids with power electronics interfaces. , 2016, , .		10
47	A unified control of back-to-back converter. , 2016, , .		17
48	Event-triggered topology identification for state estimation in active distribution networks. , 2016, , .		13
49	Power-hardware-in-the-loop test beds: evaluation tools for grid integration of distributed energy resources. IEEE Industry Applications Magazine, 2016, 22, 18-26.	0.4	51
50	State Forecasting and Operational Planning for Distribution Network Energy Management Systems. IEEE Transactions on Smart Grid, 2016, 7, 1002-1011.	9.0	65
51	A comparison of MV Distribution System State Estimation methods using field data. , 2015, , .		4
52	Modelling of concentrating solar power plant for power system reliability studies. IET Renewable Power Generation, 2015, 9, 120-130.	3.1	25
53	A Glimpse of SmartHG Project Test-bed and Communication Infrastructure. , 2015, , .		8
54	User Flexibility Aware Price Policy Synthesis for Smart Grids. , 2015, , .		13

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55	Short-Term Load Forecasting at the local level using smart meter data. , 2015, , .		33
56	Estimation and Analysis of Building Energy Demand and Supply Costs. Energy Procedia, 2015, 83, 216-225.	1.8	24
57	A Closed-Loop State Estimation Tool for MV Network Monitoring and Operation. IEEE Transactions on Smart Grid, 2015, 6, 2116-2125.	9.0	65
58	Incorporating spatial correlation into stochastic generation of solar radiation data. Solar Energy, 2015, 115, 74-84.	6.1	6
59	Advanced building energy management based on a two-stage receding horizon optimization. Applied Energy, 2015, 160, 194-205.	10.1	35
60	Two-stage Optimization for Building Energy Management. Energy Procedia, 2014, 62, 346-354.	1.8	17
61	A laboratory environment for real-time testing of energy management scenarios: Smart Energy Integration Lab (SEIL). , 2014, , .		2
62	Demand-aware price policy synthesis and verification services for Smart Grids. , 2014, , .		22
63	Real-time power-hardware-in-the-loop discrete modeling of PMSM wind turbines. , 2014, , .		2
64	State Estimation Techniques for Electric Power Distribution Systems. , 2014, , .		61
65	Indirect coordination of electricity demand for balancing wind power. IET Renewable Power Generation, 2014, 8, 858-866.	3.1	5
66	A Power-HIL microgrid testbed: Smart energy integration lab (SEIL). , 2014, , .		18
67	Application-oriented modelling of domestic energy demand. International Journal of Electrical Power and Energy Systems, 2014, 61, 656-664.	5.5	27
68	Analysis of Net Zero-energy Building in Spain. Integration of PV, Solar Domestic Hot Water and Air-conditioning Systems. Energy Procedia, 2014, 48, 828-836.	1.8	21
69	Profitability assessment for self-sufficiency improvement in grid-connected non-residential buildings with on-site PV installations. , 2013, , .		3
70	Dynamic Stability of a Microgrid With an Active Load. IEEE Transactions on Power Electronics, 2013, 28, 5107-5119.	7.9	399
71	PV system model reduction for reliability assessment studies. , 2013, , .		4
72	An alternative approach for market integration distributed energy resources. , 2013, , .		1

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73	A demand based approach to optimisation of energy supply mix for smart buildings. , 2012, , .		5
74	Residential Energy Load Profile Generation Using a Probabilistic Approach. , 2012, , .		26
75	An integrated approach to optimization of energy supply mix in smart buildings. , 2011, , .		1
76	Proactive control for energy systems in Smart Buildings. , 2011, , .		5
77	Distributed voltage control in AuRA-NMS. , 2010, , .		12
78	Case based reasoning for distributed voltage control. , 2009, , .		7
79	Energy Management in Autonomous Microgrid Using Stability-Constrained Droop Control of Inverters. IEEE Transactions on Power Electronics, 2008, 23, 2346-2352.	7.9	679
80	Modeling, Analysis and Testing of Autonomous Operation of an Inverter-Based Microgrid. IEEE Transactions on Power Electronics, 2007, 22, 613-625.	7.9	2,337
81	Harmonic and reactive power compensation as ancillary services in inverter-based distributed generation. IET Generation, Transmission and Distribution, 2007, 1, 432.	2.5	95
82	Energy Management System with Stability Constraints for Stand-alone Autonomous Microgrid. , 2007, , .		28
83	Control of inverter-based micro-grids. Electric Power Systems Research, 2007, 77, 1204-1213.	3.6	282
84	High-Quality Power Generation Through Distributed Control of a Power Park Microgrid. IEEE Transactions on Industrial Electronics, 2006, 53, 1471-1482.	7.9	261
85	Control and filter design of three-phase inverters for high power quality grid connection. IEEE Transactions on Power Electronics, 2003, 18, 373-380.	7.9	352