

Manuela Sechilariu

List of Publications by Year in descending order

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74
papers

1,802
citations

430754

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414303

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74
all docs

74
docs citations

74
times ranked

1704
citing authors

#	ARTICLE	IF	CITATIONS
1	Building Integrated Photovoltaic System With Energy Storage and Smart Grid Communication. IEEE Transactions on Industrial Electronics, 2013, 60, 1607-1618.	5.2	269
2	Intelligent DC Microgrid With Smart Grid Communications: Control Strategy Consideration and Design. IEEE Transactions on Smart Grid, 2012, 3, 2148-2156.	6.2	222
3	Maximum power tracking for photovoltaic power system: Development and experimental comparison of two algorithms. Renewable Energy, 2010, 35, 2381-2387.	4.3	181
4	Energy management of DC microgrid based on photovoltaic combined with diesel generator and supercapacitor. Energy Conversion and Management, 2017, 132, 14-27.	4.4	135
5	Building-integrated microgrid: Advanced local energy management for forthcoming smart power grid communication. Energy and Buildings, 2013, 59, 236-243.	3.1	127
6	Experimental analysis of impact of MPPT methods on energy efficiency for photovoltaic power systems. International Journal of Electrical Power and Energy Systems, 2013, 46, 98-107.	3.3	101
7	DC microgrid power flow optimization by multi-layer supervision control. Design and experimental validation. Energy Conversion and Management, 2014, 82, 1-10.	4.4	69
8	Supervision control for optimal energy cost management in DC microgrid: Design and simulation. International Journal of Electrical Power and Energy Systems, 2014, 58, 140-149.	3.3	67
9	DC Load and Batteries Control Limitations for Photovoltaic Systems. Experimental Validation. IEEE Transactions on Power Electronics, 2012, 27, 4030-4038.	5.4	56
10	Modelling, Simulation, and Management Strategy of an Electric Vehicle Charging Station Based on a DC Microgrid. Applied Sciences (Switzerland), 2020, 10, 2053.	1.3	46
11	Modeling and Simulation of DC Microgrids for Electric Vehicle Charging Stations. Energies, 2015, 8, 4335-4356.	1.6	43
12	Photovoltaic Electricity for Sustainable Building. Efficiency and Energy Cost Reduction for Isolated DC Microgrid. Energies, 2015, 8, 7945-7967.	1.6	40
13	Electromobility framework study: infrastructure and urban planning for EV charging station empowered by PV-based microgrid. IET Electrical Systems in Transportation, 2019, 9, 176-185.	1.5	26
14	A novel Decoupled Trigonometric Saturated droop controller for power sharing in islanded low-voltage microgrids. Electric Power Systems Research, 2019, 168, 146-161.	2.1	26
15	PV-Powered Electric Vehicle Charging Stations: Preliminary Requirements and Feasibility Conditions. Applied Sciences (Switzerland), 2021, 11, 1770.	1.3	26
16	Power flow Petri Net modelling for building integrated multi-source power system with smart grid interaction. Mathematics and Computers in Simulation, 2013, 91, 119-133.	2.4	21
17	Optimized Load Shedding Approach for Grid-Connected DC Microgrid Systems under Realistic Constraints. Buildings, 2016, 6, 50.	1.4	21
18	Power Management Strategy for an Autonomous DC Microgrid. Applied Sciences (Switzerland), 2018, 8, 2202.	1.3	20

#	ARTICLE	IF	CITATIONS
19	Electric vehicle charging system with PV Grid-connected configuration. , 2010, , .		19
20	Power management and optimization for isolated DC microgrid. , 2014, , .		19
21	PV-Powered Charging Station for Electric Vehicles: Power Management with Integrated V2G. Applied Sciences (Switzerland), 2020, 10, 6500.	1.3	18
22	PV Benefits Assessment for PV-Powered Charging Stations for Electric Vehicles. Applied Sciences (Switzerland), 2021, 11, 4127.	1.3	18
23	Experimental analysis of impact of maximum power point tracking methods on energy efficiency for small-scale wind energy conversion system. IET Renewable Power Generation, 2017, 11, 389-397.	1.7	15
24	DC Microgrid System Modeling and Simulation Based on a Specific Algorithm for Grid-Connected and Islanded Modes with Real-Time Demand-Side Management Optimization. Applied Sciences (Switzerland), 2020, 10, 2544.	1.3	14
25	Adaptive-tuning of extended Kalman filter used for small scale wind generator control. Renewable Energy, 2016, 85, 1237-1245.	4.3	12
26	A simple PV constrained production control strategy. , 2012, , .		11
27	Energy efficiency experimental tests comparison of P&O algorithm for PV power system. , 2010, , .		10
28	Real-Time Power Management Including an Optimization Problem for PV-Powered Electric Vehicle Charging Stations. Applied Sciences (Switzerland), 2022, 12, 4323.	1.3	10
29	A simple experimental prediction model of photovoltaic power for DC microgrid. , 2012, , .		9
30	Intelligent Energy Management of Electrical Power Systems. Applied Sciences (Switzerland), 2020, 10, 2951.	1.3	9
31	Multi-source power generation system in semi-isolated and safety grid configuration for buildings. , 2010, , .		8
32	Day-ahead microgrid optimal self-scheduling: Comparison between three methods applied to isolated DC microgrid. , 2014, , .		8
33	Connecting and Integrating Variable Renewable Electricity in Utility Grid. , 2016, , 1-33.		8
34	Backup Power Resources for Microgrid. , 2016, , 93-132.		8
35	Influence of Dynamic Efficiency in the DC Microgrid Power Balance. Energies, 2017, 10, 1563.	1.6	8
36	Experimental comparison of photovoltaic panel operating cell temperature models. , 2014, , .		7

#	ARTICLE	IF	CITATIONS
37	Diesel generator slow start-up compensation by supercapacitor for DC microgrid power balancing. , 2016, , .		7
38	Experimental Implementation of a Flexible PV Power Control Mechanism in a DC Microgrid. Energies, 2019, 12, 1233.	1.6	7
39	A Techno-Economic Analysis of Energy Storage Components of Microgrids for Improving Energy Management Strategies. Energies, 2022, 15, 1556.	1.6	7
40	Intelligent DC microgrid with smart grid communications: Control strategy consideration and design. , 2013, , .		6
41	Photovoltaic Source Modeling and Control. , 2016, , 35-91.		6
42	Load shedding and restoration real-time optimization for DC microgrid power balancing. , 2016, , .		6
43	DC microgrid for future electric vehicle charging station designed by Energetic Macroscopic Representation and Maximum Control Structure. , 2014, , .		5
44	Prediction-based optimization for islanded microgrid resources scheduling and management. , 2015, , .		4
45	Smart Microgrid and Urban Planning for Better Electromobility. , 2017, , .		4
46	A conceptual framework for full optimal operation of a grid-connected DC microgrid. , 2018, , .		4
47	Social Acceptance of Microgrids Dedicated to Electric Vehicle Charging Stations. , 2018, , .		4
48	Global Cost and Carbon Impact Assessment Methodology for Electric Vehiclesâ€™ PV-Powered Charging Station. Applied Sciences (Switzerland), 2022, 12, 4115.	1.3	4
49	Urban DC Microgrids for Advanced Local Energy Management with Smart Grid Communication. Springer Proceedings in Energy, 2017, , 3-9.	0.2	3
50	Optimal control of hybrid dynamical systems with hysteresis. , 1999, , .		2
51	Batteries and DC charge control of stand-alone photovoltaic system. Experimental validation. , 2010, , .		2
52	Estimation of speed rotation for MPPT used by small scale wind generator integrated in DC microgrid experimental validation. , 2014, , .		2
53	Impact of power converters' efficiency on building-integrated microgrid. , 2015, , .		2
54	Experimental Evaluation of Urban Direct Current Microgrid. , 2016, , 209-250.		2

#	ARTICLE	IF	CITATIONS
55	Direct Current Microgrid Power Modeling and Control. , 2016, , 133-170.		2
56	Prediction-based economic dispatch and online optimization for grid-connected DC microgrid. , 2016, , .		2
57	Integrated Control for Small Power Wind Generator. Energies, 2018, 11, 1217.	1.6	2
58	On-grid/off-grid DC microgrid optimization and demand response management. , 2020, , .		2
59	Shedding and restoration algorithms for an EV charging station to maximize available power. , 2020, , .		2
60	Power and Energy Management of a DC Microgrid for a Renewable Curtailment Case Due to the Integration of a Small-Scale Wind Turbine. Energies, 2022, 15, 3421.	1.6	2
61	Energetic Macroscopic Representation and Maximum Control Structure of electric vehicles charging photovoltaic system. , 2010, , .		1
62	Experimental comparison of small wind turbine vector control with and without position sensor — Extended Kalman filter application. , 2013, , .		1
63	Maximum power point tracking method for small scale wind generator experimental validation. , 2015, , .		1
64	Direct Current Microgrid Supervisory System Design. , 2016, , 171-208.		1
65	Human-System Interfaces for PV-Powered Electric Vehicles Charging Station. , 2021, , .		1
66	PV-Powered Charging Station: Energy Management and Cost Optimization. , 2021, , .		1
67	Energetic macroscopic representation and inversion-based control of DC micro-grid. , 2013, , .		0
68	ReprÃ©sentation Ã©nergÃ©tique macroscopique et structure maximale de commande d'un rÃ©seau semi-isolÃ©. Application Ã une installation photovoltaÃ©que alimentant un bÃ¢timent basse consommation. Revue Internationale De GÃ©nie Ã©lectrique, 2009, 12, 609-637.	0.0	0
69	Simple improved control of phase error compensation for low power operation of PV grid-connected inverter with LCL filter. European Journal of Electrical Engineering, 2014, 17, 27-45.	1.1	0
70	Production dÃ©centralisÃ©e d'Ã©lectricitÃ© renouvelable. Micro-rÃ©seaux urbains et rÃ©seau Ã©lectrique intelligent. , 2019, , 151-164.		0
71	Power Management of a Full DC Microgrid for Building Self-Consumption Applications. Lecture Notes in Electrical Engineering, 2020, , 177-189.	0.3	0
72	Management Strategy of an Electric Vehicle Charging Station Under Power Limitation. Lecture Notes in Electrical Engineering, 2020, , 191-202.	0.3	0

#	ARTICLE	IF	CITATIONS
73	Optimal Power Dispatching in the DC Microgrid with Clear Sky Irradiance Model. Lecture Notes in Electrical Engineering, 2020, , 497-509.	0.3	0
74	Carbon Impact Methodology for PV-powered Infrastructure for Recharging Electric Vehicles. , 2021, , .		0