

Michela Robba

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,440
citations

236925

25
h-index

223800

46
g-index

62
all docs

62
docs citations

62
times ranked

2693
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods and tools to evaluate the availability of renewable energy sources. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 1182-1200.	16.4	329
2	Optimizing forest biomass exploitation for energy supply at a regional level. <i>Biomass and Bioenergy</i> , 2004, 26, 15-25.	5.7	177
3	Planning woody biomass logistics for energy production: A strategic decision model. <i>Biomass and Bioenergy</i> , 2009, 33, 372-383.	5.7	154
4	Modeling and optimization of a hybrid system for the energy supply of a "Green" building. <i>Energy Conversion and Management</i> , 2012, 64, 351-363.	9.2	149
5	An environmentally sustainable decision model for urban solid waste management. <i>Waste Management</i> , 2004, 24, 277-295.	7.4	138
6	A dynamic optimization-based architecture for polygeneration microgrids with tri-generation, renewables, storage systems and electrical vehicles. <i>Energy Conversion and Management</i> , 2015, 96, 511-520.	9.2	114
7	A decision support system for planning biomass-based energy production. <i>Energy</i> , 2009, 34, 362-369.	8.8	111
8	A mathematical model for the optimal operation of the University of Genoa Smart Polygeneration Microgrid: Evaluation of technical, economic and environmental performance indicators. <i>Energy</i> , 2014, 64, 912-922.	8.8	92
9	Solid waste management in urban areas. <i>Resources, Conservation and Recycling</i> , 2003, 37, 301-328.	10.8	91
10	The University of Genoa smart polygeneration microgrid test-bed facility: The overall system, the technologies and the research challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 18, 442-459.	16.4	91
11	A Dynamic Decision Model for the Real-Time Control of Hybrid Renewable Energy Production Systems. <i>IEEE Systems Journal</i> , 2010, 4, 323-333.	4.6	80
12	Multi-objective optimization of solid waste flows: Environmentally sustainable strategies for municipalities. <i>Waste Management</i> , 2008, 28, 2202-2212.	7.4	77
13	A dynamic optimization model for solid waste recycling. <i>Waste Management</i> , 2013, 33, 287-296.	7.4	70
14	Thermal analysis and performance optimization of a solar water heater flat plate collector: Application to TÁ©touan (Morocco). <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 630-638.	16.4	67
15	An optimization model for electrical vehicles scheduling in a smart grid. <i>Sustainable Energy, Grids and Networks</i> , 2018, 14, 62-70.	3.9	49
16	Energy planning of sustainable districts: Towards the exploitation of small size intermittent renewables in urban areas. <i>Applied Energy</i> , 2018, 228, 2288-2297.	10.1	49
17	An Energy Management Platform for the Optimal Control of Active and Reactive Powers in Sustainable Microgrids. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 7146-7156.	4.9	44
18	A decision support system for the optimal exploitation of wind energy on regional scale. <i>Renewable Energy</i> , 2012, 37, 299-309.	8.9	36

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19	A pilot facility for analysis and simulation of smart microgrids feeding smart buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 58, 1247-1255.	16.4	35
20	Optimal Planning of Sustainable Buildings: Integration of Life Cycle Assessment and Optimization in a Decision Support System (DSS). <i>Energies</i> , 2016, 9, 490.	3.1	34
21	A Multilevel Approach for the Optimal Control of Distributed Energy Resources and Storage. <i>IEEE Transactions on Smart Grid</i> , 2014, 5, 2155-2162.	9.0	33
22	Identification and optimal control of an electrical storage system for microgrids with renewables. <i>Sustainable Energy, Grids and Networks</i> , 2019, 17, 100183.	3.9	32
23	Optimal Charging and Routing of Electric Vehicles With Power Constraints and Time-of-Use Energy Prices. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 14436-14447.	6.3	32
24	Data-Driven Photovoltaic Power Production Nowcasting and Forecasting for Polygeneration Microgrids. <i>IEEE Systems Journal</i> , 2018, 12, 2842-2853.	4.6	27
25	A Bilevel Approach for the Stochastic Optimal Operation of Interconnected Microgrids. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017, 14, 482-493.	5.2	26
26	Decision models for sustainable groundwater planning and control. <i>Control Engineering Practice</i> , 2007, 15, 1013-1029.	5.5	25
27	An optimization algorithm for the operation planning of the University of Genoa smart polygeneration microgrid. , 2013, , .		23
28	An architecture for the optimal control of tertiary and secondary levels in small-size islanded microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , 2018, 103, 75-88.	5.5	23
29	Economic and environmental performances quantification of the university of Genoa Smart Polygeneration Microgrid. , 2012, , .		22
30	Planning and management of sustainable microgrids: The test-bed facilities at the University of Genoa. , 2013, , .		15
31	A system of systems model for the control of the university of Genoa Smart Polygeneration Microgrid. , 2012, , .		14
32	A Building Energy Management System Based on an Equivalent Electric Circuit Model. <i>Energies</i> , 2020, 13, 1689.	3.1	14
33	Optimal Planning of Charging Stations in Coupled Transportation and Power Networks Based on User Equilibrium Conditions. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022, 19, 48-59.	5.2	13
34	Distributed control for polygeneration microgrids: A Dynamic Market Mechanism approach. <i>Control Engineering Practice</i> , 2022, 121, 105052.	5.5	13
35	An algorithm for the optimal collection of wet waste. <i>Waste Management</i> , 2016, 48, 56-63.	7.4	12
36	Optimal Control of Multiple Microgrids and Buildings by an Aggregator. <i>Energies</i> , 2020, 13, 1058.	3.1	12

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37	Towards the Integration of Sustainable Transportation and Smart Grids: A Review on Electric Vehicles Management. <i>Energies</i> , 2022, 15, 4020.	3.1	12
38	A distributed approach to the Optimal Power Flow problem for unbalanced and mesh networks. <i>IFAC-PapersOnLine</i> , 2020, 53, 13287-13292.	0.9	11
39	Optimal Planning of Door-to-Door Multiple Materials Separated Waste Collection. <i>IEEE Transactions on Automation Science and Engineering</i> , 2016, 13, 1448-1457.	5.2	10
40	A Dynamic Market Mechanism for Combined Heat and Power Microgrid Energy Management. <i>IFAC-PapersOnLine</i> , 2017, 50, 10033-10039.	0.9	10
41	A simple device for sampling pond sediment. <i>Aquaculture</i> , 2006, 258, 650-654.	3.5	9
42	A dynamic decision model for the optimal use of forest biomass for energy production. <i>Energy Systems</i> , 2016, 7, 615-635.	3.0	8
43	An Optimization Model for Polygeneration Microgrids with Renewables, Electrical and Thermal Storage: Application to the Savona Campus. , 2018, , .		8
44	An optimization model for the sizing of the biomass plants supply chain. <i>IFAC-PapersOnLine</i> , 2018, 51, 114-119.	0.9	7
45	A Model Predictive Control Strategy for Distribution Grids: Voltage and Frequency Regulation for Islanded Mode Operation. <i>Energies</i> , 2020, 13, 2637.	3.1	7
46	A Distributed-Optimization-Based Architecture for Management of Interconnected Energy Hubs. <i>IEEE Transactions on Control of Network Systems</i> , 2022, 9, 1704-1716.	3.7	6
47	Optimal planning of the energy production mix in smart districts including renewable and cogeneration power plants. , 2016, , .		5
48	Optimal control of coastal aquifer pumping towards the sustainability of water supply and salinity. <i>Sustainability of Water Quality and Ecology</i> , 2015, 6, 88-100.	2.0	4
49	A model predictive control approach for the optimization of polygeneration microgrids and demand response strategies. , 2016, , .		4
50	Discrete event optimization of a vehicle charging station with multiple sockets. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2021, 31, 219-249.	1.5	4
51	Optimal Control of Hybrid Systems and Renewable Energies. <i>Energies</i> , 2022, 15, 78.	3.1	3
52	Optimal control of active power flows in Smart Microgrids. , 2014, , .		2
53	A multi-objective Energy Management System for microgrids: minimization of costs, exergy in input, and emissions. , 2021, , .		2
54	A Multilevel Approach for the Optimal Control of Energy Systems Distributed over the Territory. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
55	A multi-objective optimization tool for the daily management of sustainable smart microgrids: Case Study: the savona campus SPM and SEB facilities. , 2016, , .		1
56	A bi-level approach for the optimal planning of charging stations and electric vehicles traffic assignment. , 2020, , .		1
57	Optimal coordination of buildings and microgrids by an aggregator: a bi-level approach. IFAC-PapersOnLine, 2020, 53, 16587-16592.	0.9	1
58	Guest Editorial Special Section on Advances in Automation and Optimization for Sustainable Transportation and Energy Systems. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3-6.	5.2	1
59	A Dynamic Model for Electrical Vehicles Interacting with Microgrids and Renewables. , 2013, , .		0
60	Decentralized generation in urban districts: Optimal planning considering uncertainties. , 2017, , .		0
61	Optimal Control of Smart Distributed Power and Energy Systems. Energies, 2022, 15, 3.	3.1	0