

# Michela Robba

## List of Publications by Year in descending order

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61  
papers

2,440  
citations

236925

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223800

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all docs

62  
docs citations

62  
times ranked

2693  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Planning of Charging Stations in Coupled Transportation and Power Networks Based on User Equilibrium Conditions. IEEE Transactions on Automation Science and Engineering, 2022, 19, 48-59.	5.2	13
2	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
3	Distributed control for polygeneration microgrids: A Dynamic Market Mechanism approach. Control Engineering Practice, 2022, 121, 105052.	5.5	13
4	A Distributed-Optimization-Based Architecture for Management of Interconnected Energy Hubs. IEEE Transactions on Control of Network Systems, 2022, 9, 1704-1716.	3.7	6
5	Optimal Control of Hybrid Systems and Renewable Energies. Energies, 2022, 15, 78.	3.1	3
6	Optimal Control of Smart Distributed Power and Energy Systems. Energies, 2022, 15, 3.	3.1	0
7	Towards the Integration of Sustainable Transportation and Smart Grids: A Review on Electric Vehicles Management. Energies, 2022, 15, 4020.	3.1	12
8	Discrete event optimization of a vehicle charging station with multiple sockets. Discrete Event Dynamic Systems: Theory and Applications, 2021, 31, 219-249.	1.5	4
9	A multi-objective Energy Management System for microgrids: minimization of costs, exergy in input, and emissions. , 2021, , .		2
10	Optimal Charging and Routing of Electric Vehicles With Power Constraints and Time-of-Use Energy Prices. IEEE Transactions on Vehicular Technology, 2020, 69, 14436-14447.	6.3	32
11	A Model Predictive Control Strategy for Distribution Grids: Voltage and Frequency Regulation for Islanded Mode Operation. Energies, 2020, 13, 2637.	3.1	7
12	Optimal Control of Multiple Microgrids and Buildings by an Aggregator. Energies, 2020, 13, 1058.	3.1	12
13	A Building Energy Management System Based on an Equivalent Electric Circuit Model. Energies, 2020, 13, 1689.	3.1	14
14	A bi-level approach for the optimal planning of charging stations and electric vehicles traffic assignment. , 2020, , .		1
15	Optimal coordination of buildings and microgrids by an aggregator: a bi-level approach. IFAC-PapersOnLine, 2020, 53, 16587-16592.	0.9	1
16	A distributed approach to the Optimal Power Flow problem for unbalanced and mesh networks. IFAC-PapersOnLine, 2020, 53, 13287-13292.	0.9	11
17	Identification and optimal control of an electrical storage system for microgrids with renewables. Sustainable Energy, Grids and Networks, 2019, 17, 100183.	3.9	32
18	An Energy Management Platform for the Optimal Control of Active and Reactive Powers in Sustainable Microgrids. IEEE Transactions on Industry Applications, 2019, 55, 7146-7156.	4.9	44

#	ARTICLE	IF	CITATIONS
19	An optimization model for electrical vehicles scheduling in a smart grid. Sustainable Energy, Grids and Networks, 2018, 14, 62-70.	3.9	49
20	Data-Driven Photovoltaic Power Production Nowcasting and Forecasting for Polygeneration Microgrids. IEEE Systems Journal, 2018, 12, 2842-2853.	4.6	27
21	An optimization model for the sizing of the biomass plants' supply chain. IFAC-PapersOnLine, 2018, 51, 114-119.	0.9	7
22	An Optimization Model for Polygeneration Microgrids with Renewables, Electrical and Thermal Storage: Application to the Savona Campus. , 2018, , .		8
23	An architecture for the optimal control of tertiary and secondary levels in small-size islanded microgrids. International Journal of Electrical Power and Energy Systems, 2018, 103, 75-88.	5.5	23
24	Energy planning of sustainable districts: Towards the exploitation of small size intermittent renewables in urban areas. Applied Energy, 2018, 228, 2288-2297.	10.1	49
25	A Dynamic Market Mechanism for Combined Heat and Power Microgrid Energy Management. IFAC-PapersOnLine, 2017, 50, 10033-10039.	0.9	10
26	A Bilevel Approach for the Stochastic Optimal Operation of Interconnected Microgrids. IEEE Transactions on Automation Science and Engineering, 2017, 14, 482-493.	5.2	26
27	Decentralized generation in urban districts: Optimal planning considering uncertainties. , 2017, , .		0
28	Optimal Planning of Sustainable Buildings: Integration of Life Cycle Assessment and Optimization in a Decision Support System (DSS). Energies, 2016, 9, 490.	3.1	34
29	Optimal Planning of Door-to-Door Multiple Materials Separated Waste Collection. IEEE Transactions on Automation Science and Engineering, 2016, 13, 1448-1457.	5.2	10
30	A multi-objective optimization tool for the daily management of sustainable smart microgrids: Case Study: the savona campus SPM and SEB facilities. , 2016, , .		1
31	Optimal planning of the energy production mix in smart districts including renewable and cogeneration power plants. , 2016, , .		5
32	A model predictive control approach for the optimization of polygeneration microgrids and demand response strategies. , 2016, , .		4
33	A pilot facility for analysis and simulation of smart microgrids feeding smart buildings. Renewable and Sustainable Energy Reviews, 2016, 58, 1247-1255.	16.4	35
34	A dynamic decision model for the optimal use of forest biomass for energy production. Energy Systems, 2016, 7, 615-635.	3.0	8
35	An algorithm for the optimal collection of wet waste. Waste Management, 2016, 48, 56-63.	7.4	12
36	A dynamic optimization-based architecture for polygeneration microgrids with tri-generation, renewables, storage systems and electrical vehicles. Energy Conversion and Management, 2015, 96, 511-520.	9.2	114

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37	Optimal control of coastal aquifer pumping towards the sustainability of water supply and salinity. Sustainability of Water Quality and Ecology, 2015, 6, 88-100.	2.0	4
38	A mathematical model for the optimal operation of the University of Genoa Smart Polygeneration Microgrid: Evaluation of technical, economic and environmental performance indicators. Energy, 2014, 64, 912-922.	8.8	92
39	Optimal control of active power flows in Smart Microgrids. , 2014, , .		2
40	A Multilevel Approach for the Optimal Control of Distributed Energy Resources and Storage. IEEE Transactions on Smart Grid, 2014, 5, 2155-2162.	9.0	33
41	An optimization algorithm for the operation planning of the University of Genoa smart polygeneration microgrid. , 2013, , .		23
42	A Multilevel Approach for the Optimal Control of Energy Systems Distributed over the Territory. , 2013, , .		1
43	A Dynamic Model for Electrical Vehicles Interacting with Microgrids and Renewables. , 2013, , .		0
44	The University of Genoa smart polygeneration microgrid test-bed facility: The overall system, the technologies and the research challenges. Renewable and Sustainable Energy Reviews, 2013, 18, 442-459.	16.4	91
45	A dynamic optimization model for solid waste recycling. Waste Management, 2013, 33, 287-296.	7.4	70
46	Planning and management of sustainable microgrids: The test-bed facilities at the University of Genoa. , 2013, , .		15
47	Modeling and optimization of a hybrid system for the energy supply of a "Green" building. Energy Conversion and Management, 2012, 64, 351-363.	9.2	149
48	A system of systems model for the control of the university of Genoa Smart Polygeneration Microgrid. , 2012, , .		14
49	Economic and environmental performances quantification of the university of Genoa Smart Polygeneration Microgrid. , 2012, , .		22
50	A decision support system for the optimal exploitation of wind energy on regional scale. Renewable Energy, 2012, 37, 299-309.	8.9	36
51	Thermal analysis and performance optimization of a solar water heater flat plate collector: Application to Tâ©touan (Morocco). Renewable and Sustainable Energy Reviews, 2011, 15, 630-638.	16.4	67
52	Methods and tools to evaluate the availability of renewable energy sources. Renewable and Sustainable Energy Reviews, 2011, 15, 1182-1200.	16.4	329
53	A Dynamic Decision Model for the Real-Time Control of Hybrid Renewable Energy Production Systems. IEEE Systems Journal, 2010, 4, 323-333.	4.6	80
54	Planning woody biomass logistics for energy production: A strategic decision model. Biomass and Bioenergy, 2009, 33, 372-383.	5.7	154

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55	A decision support system for planning biomass-based energy production. <i>Energy</i> , 2009, 34, 362-369.	8.8	111
56	Multi-objective optimization of solid waste flows: Environmentally sustainable strategies for municipalities. <i>Waste Management</i> , 2008, 28, 2202-2212.	7.4	77
57	Decision models for sustainable groundwater planning and control. <i>Control Engineering Practice</i> , 2007, 15, 1013-1029.	5.5	25
58	A simple device for sampling pond sediment. <i>Aquaculture</i> , 2006, 258, 650-654.	3.5	9
59	An environmentally sustainable decision model for urban solid waste management. <i>Waste Management</i> , 2004, 24, 277-295.	7.4	138
60	Optimizing forest biomass exploitation for energy supply at a regional level. <i>Biomass and Bioenergy</i> , 2004, 26, 15-25.	5.7	177
61	Solid waste management in urban areas. <i>Resources, Conservation and Recycling</i> , 2003, 37, 301-328.	10.8	91