

# Alessandra Parisio

## List of Publications by Year in descending order

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55  
papers

3,492  
citations

623188

14  
h-index

610482

24  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3262  
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of model predictive control and weather forecasts for energy efficient building climate control. Energy and Buildings, 2012, 45, 15-27.	3.1	886
2	A Model Predictive Control Approach to Microgrid Operation Optimization. IEEE Transactions on Control Systems Technology, 2014, 22, 1813-1827.	3.2	621
3	Energy efficient building climate control using Stochastic Model Predictive Control and weather predictions. , 2010, , .		263
4	A robust optimization approach to energy hub management. International Journal of Electrical Power and Energy Systems, 2012, 42, 98-104.	3.3	253
5	Use of model predictive control for experimental microgrid optimization. Applied Energy, 2014, 115, 37-46.	5.1	184
6	Cooperative MPC-Based Energy Management for Networked Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 3066-3074.	6.2	181
7	Reducing peak electricity demand in building climate control using real-time pricing and model predictive control. , 2010, , .		135
8	Stochastic model predictive control for economic/environmental operation management of microgrids: An experimental case study. Journal of Process Control, 2016, 43, 24-37.	1.7	108
9	Stochastic Model Predictive Control for Building Climate Control. IEEE Transactions on Control Systems Technology, 2014, 22, 1198-1205.	3.2	106
10	Energy efficient microgrid management using Model Predictive Control. , 2011, , .		68
11	A mixed integer linear formulation for microgrid economic scheduling. , 2011, , .		61
12	A two-stage stochastic programming approach to employee scheduling in retail outlets with uncertain demand. Omega, 2015, 53, 97-103.	3.6	58
13	Robust Scheduling of Smart Appliances in Active Apartments With User Behavior Uncertainty. IEEE Transactions on Automation Science and Engineering, 2016, 13, 247-259.	3.4	55
14	Distributed Control of Battery Energy Storage Systems for Improved Frequency Regulation. IEEE Transactions on Power Systems, 2020, 35, 3729-3738.	4.6	43
15	Generalised control-oriented modelling framework for multi-energy systems. Applied Energy, 2019, 235, 320-331.	5.1	36
16	Implementation of a Scenario-based MPC for HVAC Systems: an Experimental Case Study. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 599-605.	0.4	34
17	A scenario-based predictive control approach to building HVAC management systems. , 2013, , .		31
18	Estimating the impacts of demand response by simulating household behaviours under price and CO2 signals. Electric Power Systems Research, 2014, 111, 103-114.	2.1	31

#	ARTICLE	IF	CITATIONS
19	Demand response for aggregated residential consumers with energy storage sharing. , 2015, , .		30
20	Stochastic Model Predictive Control for economic/environmental operation management of microgrids. , 2013, , .		29
21	Control of HVAC systems via scenario-based explicit MPC. , 2014, , .		28
22	An MPC-based Energy Management System for multiple residential microgrids. , 2015, , .		26
23	Robust Optimization of operations in energy hub. , 2011, , .		23
24	Randomized Model Predictive Control for HVAC Systems. , 2013, , .		23
25	Multi-objective optimization for environmental/economic microgrid scheduling. , 2012, , .		16
26	Closed-Loop Identification for Model Predictive Control of HVAC Systems: From Input Design to Controller Synthesis. IEEE Transactions on Control Systems Technology, 2020, 28, 1681-1695.	3.2	16
27	Location-dependent distributed control of battery energy storage systems for fast frequency response. International Journal of Electrical Power and Energy Systems, 2021, 125, 106493.	3.3	16
28	Model Predictive Control for optimizing the flexibility of sustainable energy assets: An experimental case study. International Journal of Electrical Power and Energy Systems, 2021, 129, 106822.	3.3	14
29	Multi-Location virtual smart grid laboratory with testbed for analysis of secure communication and remote co-simulation: concept and application to integration of Berlin, Stockholm, Helsinki. IET Generation, Transmission and Distribution, 2017, 11, 3134-3143.	1.4	13
30	Energy and CO <sub>2</sub> efficient scheduling of smart appliances in active houses equipped with batteries. , 2014, , .		10
31	Frequency regulation and congestion management by Virtual Storage Plants. Sustainable Energy, Grids and Networks, 2022, 29, 100586.	2.3	10
32	Robust invariant sets for constrained storage systems. Automatica, 2009, 45, 2930-2936.	3.0	9
33	Distributed model predictive control for building demand-side management. , 2018, , .		9
34	Model Predictive Control of Smart Districts With Fifth Generation Heating and Cooling Networks. IEEE Transactions on Energy Conversion, 2021, 36, 2659-2669.	3.7	8
35	A conversion model for nodes in multi-energy systems. , 2017, , .		7
36	Optimal Virtual Power Plant Management for Multiple Grid Support Services. IEEE Transactions on Energy Conversion, 2021, 36, 1479-1490.	3.7	7

#	ARTICLE	IF	CITATIONS
37	Robust Decentralized Charge Control of Electric Vehicles under Uncertainty on Inelastic Demand and Energy Pricing. , 2020, , .		7
38	A Model Predictive Control Approach to Operation Optimization of an Ultracapacitor Bank for Frequency Control. IEEE Transactions on Energy Conversion, 2021, 36, 1743-1755.	3.7	6
39	Multiple cranes control with task deadlines and priority constraints. , 2007, , .		5
40	Robust invariant set theory applied to networked buffer-level control. , 2008, , .		5
41	Use of Model Predictive Control for Short-Term Operating Reserve Using Commercial Buildings in the United Kingdom Context. , 2018, , .		5
42	Energy Management Systems for Intelligent Buildings in Smart Grids. Advances in Industrial Control, 2018, , 253-291.	0.4	4
43	Virtual Storage Plant Aggregating Electrical Energy Storages and HVAC Systems Providing Regulating Reserve and Voltage Regulation. IFAC-PapersOnLine, 2021, 54, 1-7.	0.5	3
44	Distributed Control of Virtual Storage Plants in Microgrids for Short Term Operating Reserve in UK. , 2020, , .		3
45	Cranes control with time-based and position constraints. , 2007, , .		2
46	Demand Smoothing in Multi-Energy Systems Using Model Predictive Control. , 2018, , .		2
47	Decentralised Predictive Control of Multi-Energy Resources in Buildings. , 2021, , .		1
48	Hierarchical Model Predictive Control for Energy Efficient Buildings with Multi-Energy Storage Systems. , 2020, , .		1
49	Hybrid Model for Crane Scheduling. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 15837-15842.	0.4	0
50	Stochastic model predictive control for optimal energy management of district heating power plants. , 2016, , .		0
51	Towards Optimal Management and Control of Virtual Storage Plants for Flexible Operation in Future Power Networks. , 2019, , .		0
52	Guest Editorial Model Predictive Control in Energy Conversion Systems. IEEE Transactions on Energy Conversion, 2021, 36, 1311-1312.	3.7	0
53	Charge/Discharge Event Model for Electric Vehicles with Predictive Control Application. , 2021, , .		0
54	Optimal Frequency Restoration of Inverter-Interfaced Microgrids via Distributed Energy Management. IFAC-PapersOnLine, 2020, 53, 12936-12941.	0.5	0

#	ARTICLE	IF	CITATIONS
55	Distributed Control of Virtual Storage Plants for Grid Service Provision. , 2021, , .		0