## **Carlos Ocampo-Martinez**

List of Publications by Year in descending order

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Version: 2024-02-01



#	Article	IF	CITATIONS
1	Advances in alkaline water electrolyzers: A review. Journal of Energy Storage, 2019, 23, 392-403.	8.1	356
2	Application of predictive control strategies to the management of complex networks in the urban water cycle [Applications of Control]. IEEE Control Systems, 2013, 33, 15-41.	0.8	166
3	Modeling and real-time control of urban drainage systems: A review. Advances in Water Resources, 2015, 85, 120-132.	3.8	160
4	Novel hybrid fuzzy-PID control scheme for air supply in PEM fuel-cell-based systems. International Journal of Hydrogen Energy, 2017, 42, 10435-10447.	7.1	117
5	Chance-constrained model predictive control for drinking water networks. Journal of Process Control, 2014, 24, 504-516.	3.3	112
6	Design and implementation of LQR/LQG strategies for oxygen stoichiometry control in PEM fuel cells based systems. Journal of Power Sources, 2011, 196, 4277-4282.	7.8	90
7	Partitioning approach oriented to the decentralised predictive control of large-scale systems. Journal of Process Control, 2011, 21, 775-786.	3.3	88
8	On the comparison of stochastic model predictive control strategies applied to a hydrogen-based microgrid. Journal of Power Sources, 2017, 343, 161-173.	7.8	78
9	Hierarchical and decentralised model predictive control of drinking water networks: application to Barcelona case study. IET Control Theory and Applications, 2012, 6, 62.	2.1	76
10	Energy efficiency in discrete-manufacturing systems: Insights, trends, and control strategies. Journal of Manufacturing Systems, 2019, 52, 131-145.	13.9	76
11	Objective Prioritization Using Lexicographic Minimizers for MPC of Sewer Networks. IEEE Transactions on Control Systems Technology, 2008, 16, 113-121.	5.2	64
12	Constrained distributed optimization: A population dynamics approach. Automatica, 2016, 69, 101-116.	5.0	52
13	A wind farm control strategy for power reserve maximization. Renewable Energy, 2019, 131, 37-44.	8.9	51
14	Improving water management efficiency by using optimization-based control strategies: the Barcelona case study. Water Science and Technology: Water Supply, 2009, 9, 565-575.	2.1	50
15	MatSWMM – An open-source toolbox for designing real-time control of urban drainage systems. Environmental Modelling and Software, 2016, 83, 143-154.	4.5	48
16	Control-oriented model of a membrane humidifier for fuel cell applications. Energy Conversion and Management, 2017, 137, 121-129.	9.2	48
17	Actuator-fault detection and isolation based on set-theoretic approaches. Journal of Process Control, 2014, 24, 947-956.	3.3	46
18	Nonlinear Model Predictive Control for Thermal Management in Plug-in Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	46

#	Article	IF	CITATIONS
19	Stochastic model predictive control based on Gaussian processes applied to drinking water networks. IET Control Theory and Applications, 2016, 10, 947-955.	2.1	46
20	Thermal Management in Plug-In Hybrid Electric Vehicles: A Real-Time Nonlinear Model Predictive Control Implementation. IEEE Transactions on Vehicular Technology, 2017, 66, 7751-7760.	6.3	46
21	Model Predictive Control of Wastewater Systems. Advances in Industrial Control, 2010, , .	0.5	45
22	A Gain-Scheduled LPV Control for Oxygen Stoichiometry Regulation in PEM Fuel Cell Systems. IEEE Transactions on Control Systems Technology, 2014, 22, 1837-1844.	5.2	41
23	Robust Fault Diagnosis of Nonlinear Systems Using Interval Constraint Satisfaction and Analytical Redundancy Relations. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 18-29.	9.3	39
24	Robust fault detection of non-linear systems using set-membership state estimation based on constraint satisfaction. Engineering Applications of Artificial Intelligence, 2012, 25, 1-10.	8.1	36
25	Stock management in hospital pharmacy using chance-constrained model predictive control. Computers in Biology and Medicine, 2016, 72, 248-255.	7.0	36
26	Data-driven energy prediction modeling for both energy efficiency and maintenance in smart manufacturing systems. Energy, 2022, 238, 121691.	8.8	34
27	Tuning of Predictive Controllers for Drinking Water Networked Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14507-14512.	0.4	33
28	Outputâ€feedback control of combined sewer networks through receding horizon control with moving horizon estimation. Water Resources Research, 2015, 51, 8129-8145.	4.2	33
29	Fault-Tolerant Unfalsified Control for PEM Fuel Cell Systems. IEEE Transactions on Energy Conversion, 2015, 30, 307-315.	5.2	31
30	Stochastic model predictive control approaches applied to drinking water networks. Optimal Control Applications and Methods, 2017, 38, 541-558.	2.1	31
31	Interval observer versus setâ€membership approaches for fault detection in uncertain systems using zonotopes. International Journal of Robust and Nonlinear Control, 2019, 29, 2819-2843.	3.7	30
32	Time-varying partitioning for predictive control design: Density-games approach. Journal of Process Control, 2019, 75, 1-14.	3.3	30
33	Set-theoretic methods in robust detection and isolation of sensor faults. International Journal of Systems Science, 2015, 46, 2317-2334.	5.5	29
34	FD-ZKF: A Zonotopic Kalman Filter optimizing fault detection rather than state estimation. Journal of Process Control, 2019, 73, 89-102.	3.3	29
35	Dynamic modelling of alkaline self-pressurized electrolyzers: a phenomenological-based semiphysical approach. International Journal of Hydrogen Energy, 2020, 45, 22394-22407.	7.1	29
36	Modeling and control in open-channel irrigation systems: A review. Annual Reviews in Control, 2021, 51, 153-171.	7.9	29

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37	Faultâ€ŧolerant model predictive control within the hybrid systems framework: Application to sewer networks. International Journal of Adaptive Control and Signal Processing, 2009, 23, 757-787.	4.1	28
38	Actuator faultâ€ŧolerant control based on set separation. International Journal of Adaptive Control and Signal Processing, 2010, 24, 1070-1090.	4.1	28
39	Control-Oriented Thermal Modeling Methodology for Water-Cooled PEM Fuel-Cell-Based Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 5146-5154.	7.9	28
40	Sensorâ€fault tolerance using robust MPC with setâ€based state estimation and active fault isolation. International Journal of Robust and Nonlinear Control, 2017, 27, 1260-1283.	3.7	28
41	Resilient distributed model predictive control for energy management of interconnected microgrids. Optimal Control Applications and Methods, 2020, 41, 146-169.	2.1	28
42	Operationally-Safe Peer-to-Peer Energy Trading in Distribution Grids: A Game-Theoretic Market-Clearing Mechanism. IEEE Transactions on Smart Grid, 2022, 13, 2897-2907.	9.0	28
43	Minimization of Sewage Network Overflow. Water Resources Management, 2014, 28, 41-63.	3.9	25
44	Hybrid modeling and receding horizon control of sewer networks. Water Resources Research, 2014, 50, 8497-8514.	4.2	25
45	Model predictive control for ethanol steam reformers with membrane separation. International Journal of Hydrogen Energy, 2017, 42, 1949-1961.	7.1	25
46	Water demand forecasting for the optimal operation of large-scale drinking water networks: The Barcelona Case Study IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10457-10462.	0.4	24
47	Reliable fault-tolerant model predictive control of drinking water transport networks. Control Engineering Practice, 2016, 55, 197-211.	5.5	24
48	Dynamical tuning for MPC using population games: A water supply network application. ISA Transactions, 2017, 69, 175-186.	5.7	24
49	A non-centralized predictive control strategy for wind farm active power control: A wake-based partitioning approach. Renewable Energy, 2020, 150, 656-669.	8.9	24
50	Piece-wise linear functions-based model predictive control of large-scale sewage systems. IET Control Theory and Applications, 2010, 4, 1581-1593.	2.1	22
51	Characterisation of interval-observer fault detection and isolation properties using the set-invariance approach. Journal of the Franklin Institute, 2020, 357, 1853-1886.	3.4	22
52	Time-Varying Scheme for Noncentralized Model Predictive Control of Large-Scale Systems. Mathematical Problems in Engineering, 2015, 2015, 1-17.	1.1	20
53	Fault detection for uncertain LPV systems using probabilistic set-membership parity relation. Journal of Process Control, 2020, 87, 27-36.	3.3	20
54	Learning-based tuning of supervisory model predictive control for drinking water networks. Engineering Applications of Artificial Intelligence, 2013, 26, 1741-1750.	8.1	19

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55	Robust Mpc for Actuator–Fault Tolerance Using Set–Based Passive Fault Detection and Active Fault Isolation. International Journal of Applied Mathematics and Computer Science, 2017, 27, 43-61.	1.5	19
56	Economic MPC for the management of drinking water networks. , 2014, , .		18
57	Adaptive PI control with robust variable structure anti-windup strategy for systems with rate-limited actuators: Application to compression systems. Control Engineering Practice, 2020, 96, 104282.	5.5	18
58	Nonlinear predictive control for the concentrations profile regulation under unknown reaction disturbances in a fuel cell anode gas channel. Journal of Power Sources, 2015, 282, 129-139.	7.8	17
59	Optimal operation of combined heat and power systems: An optimization-based control strategy. Energy Conversion and Management, 2019, 199, 111957.	9.2	17
60	A multiobjective-based switching topology for hierarchical model predictive control applied to a hydro-power valley. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 534-539.	0.4	16
61	Centralized and Distributed Command Governor Approaches for Water Supply Systems Management. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 586-595.	9.3	16
62	A Game Theoretical Randomized Method for Large-Scale Systems Partitioning. IEEE Access, 2018, 6, 42245-42263.	4.2	16
63	Dual mode control strategy for the energy efficiency of complex and flexible manufacturing systems. Journal of Manufacturing Systems, 2020, 56, 104-116.	13.9	16
64	Decentralized Control for Urban Drainage Systems via population dynamics: Bogot $\tilde{A}_{i}$ case study. , 2015, , .		15
65	A Distributed Augmented Lagrangian Method Over Stochastic Networks for Economic Dispatch of Large-Scale Energy Systems. IEEE Transactions on Sustainable Energy, 2021, 12, 1927-1934.	8.8	15
66	Multi-layer health-aware economic predictive control of a pasteurization pilot plant. International Journal of Applied Mathematics and Computer Science, 2018, 28, 97-110.	1.5	15
67	Model predictive control of combined irrigation and water supply systems: Application to the Guadiana river. , 2012, , .		14
68	On the Anode Pressure and Humidity Regulation in PEM Fuel Cells: a Nonlinear Predictive Control Approach. IFAC-PapersOnLine, 2015, 48, 434-439.	0.9	14
69	Robust Model Predictive Control based on Gaussian Processes: Application to drinking water networks. , 2015, , .		14
70	Dataâ€driven fault diagnosis and robust control: Application to PEM fuel cell systems. International Journal of Robust and Nonlinear Control, 2018, 28, 3713-3727.	3.7	14
71	Design of optimization-based controllers applied to an ethanol steam reformer for hydrogen production. International Journal of Hydrogen Energy, 2012, 37, 11141-11156.	7.1	13
72	On the Assessment of Tree-Based and Chance-Constrained Predictive Control Approaches applied to Drinking Water Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6240-6245.	0.4	13

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73	Reliability–based economic model predictive control for generalised flow–based networks including actuators' health–aware capabilities. International Journal of Applied Mathematics and Computer Science, 2016, 26, 641-654.	1.5	13
74	Reduced-order Interval-observer Design for Dynamic Systems with Time-invariant Uncertainty. IFAC-PapersOnLine, 2017, 50, 6271-6276.	0.9	13
75	An application of the Shapley value to perform system partitioning. , 2015, , .		12
76	Game-Theoretical Methods in Control of Engineering Systems: An Introduction to the Special Issue. IEEE Control Systems, 2017, 37, 30-32.	0.8	12
77	Control of Urban Drainage Systems: Optimal Flow Control and Deep Learning in Action. , 2019, , .		12
78	Interval observer-based fault detectability analysis using mixed set-invariance theory and sensitivity analysis approach. International Journal of Systems Science, 2019, 50, 495-516.	5.5	12
79	Gaussian-Process-Based Demand Forecasting for Predictive Control of Drinking Water Networks. Lecture Notes in Computer Science, 2016, , 69-80.	1.3	12
80	Multi-layer Decentralized MPC of Large-scale Networked Systems. Intelligent Systems, Control and Automation: Science and Engineering, 2014, , 495-515.	0.5	12
81	Actuator Fault-Tolerant Control based on Invariant Set Separation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 7276-7281.	0.4	11
82	Decentralized Model Predictive Control of Drinking Water Networks using an Automatic Subsystem Decomposition Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 572-577.	0.4	11
83	A service reliability model predictive control with dynamic safety stocks and actuators health monitoring for drinking water networks. , 2012, , .		11
84	Non-centralized control for flow-based distribution networks: A game-theoretical insight. Journal of the Franklin Institute, 2017, 354, 5771-5796.	3.4	11
85	Economic model predictive control for energy dispatch of a smart micro-grid system. , 2017, , .		11
86	Online partitioning method for decentralized control of linear switching large-scale systems. Journal of the Franklin Institute, 2019, 356, 3290-3313.	3.4	11
87	On Hybrid Model Predictive Control of Sewer Networks. , 2007, , 87-114.		11
88	Fault Tolerant Model Predictive Control applied on the Barcelona Sewer Network. , 0, , .		10
89	Fault-tolerant explicit MPC of PEM fuel cells. , 2007, , .		10
90	Distributed formation control of multiple unmanned aerial vehicles over time-varying graphs using population games. , 2016, , .		10

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91	Application of robust model predictive control to a renewable hydrogen-based microgrid. , 2016, , .		10
92	Partitioning for Large-scale Systems: A Sequential Distributed MPC Design * *This work has been partially supported by the project DEOCS (Ref. DPI2016-76493-C3-3-R). J. Barreiro-Gomez is partially supported by Colciencias and AGAUR IFAC-PapersOnLine, 2017, 50, 8838-8843.	0.9	10
93	Formal controller synthesis for wastewater systems with signal temporal logic constraints: The Barcelona case study. Journal of Process Control, 2018, 69, 179-191.	3.3	10
94	Distributed data-driven UAV formation control via evolutionary games: Experimental results. Journal of the Franklin Institute, 2021, 358, 5334-5352.	3.4	10
95	Event-triggered partitioning for non-centralized predictive-control-based economic dispatch of interconnected microgrids. Automatica, 2021, 132, 109829.	5.0	10
96	Model predictive control of drinking water networks: A hierarchical and decentralized approach. , 2010, , .		9
97	Flooding management using hybrid model predictive control: application to the Spanish Ebro River. Journal of Hydroinformatics, 2013, 15, 366-380.	2.4	9
98	Modeling, Diagnosis, and Control of Fuel-Cell-Based Technologies and Their Integration in Smart Grids and Automotive Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 5143-5145.	7.9	9
99	A distributed predictive control approach for periodic flow-based networks: application to drinking water systems. International Journal of Systems Science, 2017, 48, 3106-3117.	5.5	9
100	A Payoff Dynamics Model for Equality-Constrained Population Games. , 2022, 6, 530-535.		9
101	Evolutionary Game-Based Dynamical Tuning for Multi-objective Model Predictive Control. Lecture Notes in Control and Information Sciences, 2015, , 115-138.	1.0	9
102	A learning-based approach towards the data-driven predictive control of combined wastewater networks – An experimental study. Water Research, 2022, 221, 118782.	11.3	9
103	Suboptimal model predictive control of hybrid systems based on mode-switching constraints. , 2007, , .		8
104	Decentralised MPC based on a Graph Partitioning Approach applied to the Barcelona Drinking Water Network*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1577-1583.	0.4	8
105	Observer-based Sensor Fault Detectability: About Robust Positive Invariance Approach and Residual Sensitivity * *This work was financially supported by Research Mobility Grant awarded by the University Paris-Saclay and a cooperation between Polytechnic University of Catalonia, Spain and CentraleSupelec, France, IFAC-PapersOnLine, 2017, 50, 5041-5046.	0.9	8
106	Constrained distributed optimization based on population dynamics. , 2014, , .		7
107	Distributed control of Drinking Water Networks using population dynamics: Barcelona case study. , 2014, , .		7
108	Sensor-fault tolerance using robust MPC with set-based state estimation and active fault isolation. ,		7

2014, , .

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109	Model-free control for wind farms using a gradient estimation-based algorithm. , 2015, , .		7
110	Comparison of set-membership and interval observer approaches for state estimation of uncertain systems. , 2016, , .		7
111	Setâ€valued observerâ€based active faultâ€ŧolerant model predictive control. Optimal Control Applications and Methods, 2017, 38, 683-708.	2.1	7
112	Robust Model Predictive Control with Signal Temporal Logic constraints for Barcelona Wastewater System. IFAC-PapersOnLine, 2017, 50, 6594-6600.	0.9	7
113	Resilient Distributed Energy Management for Systems of Interconnected Microgrids. , 2018, , .		7
114	An optimization-based control strategy for energy efficiency of discrete manufacturing systems. ISA Transactions, 2019, 93, 399-409.	5.7	7
115	Modular Feedback Control of Networked Systems by Clustering: A Drinking Water Network Case Study. Processes, 2021, 9, 389.	2.8	7
116	Non-centralised control strategies for energy-efficient and flexible manufacturing systems. Journal of Manufacturing Systems, 2021, 59, 386-397.	13.9	7
117	Model-based control design for <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si5.svg"&gt;<mml:msub><mml:mi mathvariant="normal"&gt;H<mml:mn>2</mml:mn></mml:mi </mml:msub></mml:math> purity regulation in high-pressure alkaline electrolyzers, Journal of the Franklin Institute, 2021, 358, 4373-4392	3.4	7
118	Economic Predictive Control of a Pasteurization Plant using a Linear Parameter Varying Model. Computer Aided Chemical Engineering, 2017, 40, 1573-1578.	0.5	7
119	Fault detection and isolation based on the combination of a bank of interval observers and invariant sets. , 2013, , .		6
120	Distributed resource management by using population dynamics: Wastewater treatment application. , 2015, , .		6
121	Distributed MPC with time-varying communication network: A density-dependent population games approach. , 2016, , .		6
122	Characterization of the minimum detectable fault of interval observers by using set-invariance theory. , 2016, , .		6
123	Predictive control of wind farms based on lexicographic minimizers for power reserve maximization. , 2018, , .		6
124	Data-Driven Decentralized Algorithm for Wind Farm Control with Population-Games Assistance. Energies, 2019, 12, 1164.	3.1	6
125	Decentralized Energy Management of Power Networks with Distributed Generation using Periodical Self-Sufficient Repartitioning Approach. , 2019, , .		6
126	Adaptive predictive control for peripheral equipment management to enhance energy efficiency in smart manufacturing systems. Journal of Cleaner Production, 2021, 291, 125556.	9.3	6

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127	Real-Time Experimental Implementation of Predictive Control Schemes in a Small-Scale Pasteurization Plant. Lecture Notes in Control and Information Sciences, 2015, , 255-273.	1.0	6
128	Evolutionaryâ€games approach for distributed predictive control involving resource allocation. IET Control Theory and Applications, 2019, 13, 772-782.	2.1	6
129	Experimental Modelling and Optimal Torque Vectoring Control for 4WD Vehicles. IEEE Transactions on Vehicular Technology, 2022, 71, 4922-4932.	6.3	6
130	On the relationship between interval observers and invariant sets in fault detection. , 2013, , .		5
131	An application of chance-constrained model predictive control to inventory management in Hospitalary Pharmacy. , 2014, , .		5
132	Multi-objective model-free control based on population dynamics and cooperative games. , 2015, , .		5
133	Fast Model Predictive Control for hydrogen outflow regulation in Ethanol Steam Reformers. , 2016, , .		5
134	Algebraic observer design for PEM fuel cell system. , 2016, , .		5
135	Nonlinear Moving Horizon Estimator for Online Estimation of the Density and Viscosity of a Mineral Slurry. Industrial & Engineering Chemistry Research, 2017, 56, 14592-14603.	3.7	5
136	Reducing energy consumption in an industrial process by using model predictive control. , 2017, , .		5
137	Comparative assessment of LPV-based predictive control strategies for a pasteurization plant. , 2017, , .		5
138	A multi-objective predictive control strategy for enhancing primary frequency support with wind farms. Journal of Physics: Conference Series, 2018, 1037, 032034.	0.4	5
139	Distributed Augmented Lagrangian Method for Link-Based Resource Sharing Problems of Multiagent Systems. IEEE Transactions on Automatic Control, 2022, 67, 3067-3074.	5.7	5
140	A Nonlinear Predictive Control Approach for Urban Drainage Networks Using Data-Driven Models and Moving Horizon Estimation. IEEE Transactions on Control Systems Technology, 2022, 30, 2147-2162.	5.2	5
141	Suboptimal Hybrid Model Predictive Control: Application to Sewer Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 10021-10026.	0.4	4
142	Robust Fault Diagnosis of Non-linear Systems using Constraints Satisfaction. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1138-1143.	0.4	4
143	Thermal modelling approach and model predictive control of a water-cooled PEM fuel cell system. , 2013, , .		4

A differential game approach to urban drainage systems control. , 2016, , .

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145	Output-Feedback Model Predictive Control of a Pasteurization Pilot Plant based on an LPV model. Journal of Physics: Conference Series, 2017, 783, 012029.	0.4	4
146	Interval observer fault detection ensuring detectability and isolability by using a set-invariance approach. IFAC-PapersOnLine, 2018, 51, 1111-1118.	0.9	4
147	H2 purity control of high-pressure alkaline electrolyzers. IFAC-PapersOnLine, 2021, 54, 109-114.	0.9	4
148	ROBUST FAULT DETECTION USING INTERVAL CONSTRAINTS SATISFACTION AND SET COMPUTATIONS 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1216-1221.	0.4	3
149	Actuator fault-tolerance evaluation of linear constrained model predictive control using zonotope-based set computations. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2007, 221, 915-926.	1.0	3
150	Methodology for actuator fault tolerance evaluation of linear constrained MPC: Application to the Barcelona water network. , 2012, , .		3
151	Hierarchical temporal multi-layer decentralised MPC strategy for drinking water networks: Application to the Barcelona case study. , 2012, , .		3
152	Sensor-fault detection and isolation using interval observers. , 2013, , .		3
153	On the implementation of gain-scheduled LPV control for oxygen stoichiometry regulation in PEM fuel cells. , 2013, , .		3
154	Receding horizon control of hybrid linear delayed systems: Application to sewer networks. , 2013, , .		3
155	Actuator-fault detection and isolation based on interval observers and invariant sets. , 2013, , .		3
156	Nonlinear Model Predictive Control for hydrogen production in an Ethanol Steam Reformer with membrane separation. , 2016, , .		3
157	On the Communication Discussion of Two Distributed Population-game Approaches for Optimization Purposes * *Authors would like to thank COLCIENCIAS (grant 6172) and the AgÃ"ncia de Gestió d'Ajust Universitaris i de Recerca, AGAUR, for supporting J. Barreiro-Gomez. Authors would also like to thank the project DEOCS (Ref. DPI2016-76493-C3-3-R), which have partially supported this work	0.9	3
158	Health-aware Model Predictive Control of Pasteurization Plant. Journal of Physics: Conference Series, 2017, 783, 012030.	0.4	3
159	Probability-Guaranteed Set-Membership State Estimation for Polynomially Uncertain Linear Time-Invariant Systems. , 2018, , .		3
160	Partitioning of Large-Scale Systems using Game-Theoretic Coalitional Methods. , 2018, , .		3
161	Atomicity and Non-Anonymity in Population-Like Games for the Energy Efficiency of Hybrid-Power HetNets. IEEE Transactions on Network and Service Management, 2018, 15, 1600-1614.	4.9	3
162	Mitigation of communication failures in distributed model predictive control strategies. IET Control Theory and Applications, 2018, 12, 2507-2515.	2.1	3

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#	Article	IF	CITATIONS
163	Risk index to monitor an anaerobic digester using a dynamic model based on dilution rate, temperature, and pH. Nonlinear Engineering, 2019, 9, 35-50.	2.7	3
164	A Resilient Approach for Distributed MPC-Based Economic Dispatch in Interconnected Microgrids. , 2019, , .		3
165	Energy efficiency improvement through MPC-based peripherals management for an industrial process test-bench. IFAC-PapersOnLine, 2019, 52, 648-653.	0.9	3
166	Economic Model Predictive Control for Optimal Operation of Combined Heat and Power Systems. IFAC-PapersOnLine, 2019, 52, 141-146.	0.9	3
167	Predictive management approach for the coordination of wind and water-based power supplies. Energy, 2021, 219, 119535.	8.8	3
168	Data-Driven Evolutionary-Game-Based Control for Drinking-Water Networks. Advances in Industrial Control, 2017, , 363-383.	0.5	3
169	On robust interval observer design for uncertain systems subject to both time-invariant and time-varying uncertainties. International Journal of Control, 2020, 93, 2577-2595.	1.9	3
170	Multi-Objective-Based Tuning of Economic Model Predictive Control of Drinking Water Transport Networks. Water (Switzerland), 2022, 14, 1222.	2.7	3
171	Nash equilibrium seeking in full-potential population games under capacity and migration constraints. Automatica, 2022, 141, 110285.	5.0	3
172	On modelling approaches for receding-horizon control design applied to large-scale sewage systems. , 2009, , .		2
173	Adaptive multilevel neuro-fuzzy Model Predictive Control for Drinking Water Networks. , 2012, , .		2
174	Improved Fault Detection and Isolation Strategy using a Bank of Interval Observers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8024-8029.	0.4	2
175	On the Comparison of Predictive Control and Command Governor Approaches for Operational Management of Drinking Water Networks: A Case Study. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6228-6233.	0.4	2
176	Making Non-Centralized a Model Predictive Control Scheme by Using Distributed Smith Dynamics**This work is supported by the ANR project entitled Hamiltonian Methods for the Control of Multidomain Distributed Parameter Systems, HAMECMOPSYS financed by the French National Research Agency. Further information is available at http://www.hamecmopsys.ens2m.fr/ IFAC-PapersOnLine, 2015, 48,	0.9	2
177	501-506. Partitioning approach for large wind farms: Active power control for optimizing power reserve. , 2018, , .		2
178	Fault-Tolerant Model Predictive Control ofÂWater Transport Networks. Advances in Industrial Control, 2017, , 291-319.	0.5	2
179	Actuator fault tolerance evaluation of Linear Constrained Robust Model Predictive Control. , 2007, , .		2
180	Non-centralized Predictive Control for Drinking-Water Supply Systems. Advances in Industrial Control, 2017, , 341-360.	0.5	2

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181	Accelerated Multi-Agent Optimization Method over Stochastic Networks. , 2020, , .		2
182	Optimal production planning for flexible manufacturing systems: an energy-based approach. IFAC-PapersOnLine, 2020, 53, 10461-10467.	0.9	2
183	Control-Oriented Modeling Approach for Open Channel Irrigation Systems. IFAC-PapersOnLine, 2020, 53, 16630-16635.	0.9	2
184	Decentralized Charging Coordination of Electric Vehicles Under Feeder Capacity Constraints. IEEE Transactions on Control of Network Systems, 2022, 9, 1600-1610.	3.7	2
185	Decentralized Control for Urban Drainage Systems Using Replicator Dynamics. IEEE Access, 2022, 10, 56740-56762.	4.2	2
186	FAULT TOLERANT HYBRID MPC APPLIED ON SEWER NETWORKS1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 144-149.	0.4	1
187	Fault-Tolerant Optimal Control of Sewer Networks: Barcelona Case Study. Measurement and Control, 2006, 39, 151-156.	1.8	1
188	A distributed command governor strategy for the operational control of drinking water networks. , 2014, , .		1
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