Ignacio Santin

List of Publications by Year
in descending order

37 papers	615 citations	758635 12 h-index	887659 17 g-index
43 all docs	43 docs citations	43 times ranked	331 citing authors

#	Article	IF	Citations
1	Applying variable dissolved oxygen set point in a two level hierarchical control structure to a wastewater treatment process. Journal of Process Control, 2015, 28, 40-55.	1.7	109
2	ANN-Based Soft Sensor to Predict Effluent Violations in Wastewater Treatment Plants. Sensors, 2019, 19, 1280.	2.1	67
3	Advanced decision control system for effluent violations removal in wastewater treatment plants. Control Engineering Practice, 2016, 49, 60-75.	3.2	60
4	Control strategies for nitrous oxide emissions reduction on wastewater treatment plants operation. Water Research, 2017, 125, 466-477.	5.3	55
5	Fuzzy Control and Model Predictive Control Configurations for Effluent Violations Removal in Wastewater Treatment Plants. Industrial & Engineering Chemistry Research, 2015, 54, 2763-2775.	1.8	53
6	On the evaluation of the global impact of control strategies applied to wastewater treatment plants. Journal of Cleaner Production, 2017, 149, 396-405.	4.6	46
7	Fuzzy logic for plant-wide control of biological wastewater treatment process including greenhouse gas emissions. ISA Transactions, 2018, 77, 146-166.	3.1	40
8	Dissolved Oxygen Control in Biological Wastewater Treatments with Non-Ideal Sensors and Actuators. Industrial & Engineering Chemistry Research, 2019, 58, 20639-20654.	1.8	18
9	Applying Control Actions for Water Line and Sludge Line To Increase Wastewater Treatment Plant Performance. Industrial & Engineering Chemistry Research, 2018, 57, 5630-5638.	1.8	17
10	Removing violations of the effluent pollution in a wastewater treatment process. Chemical Engineering Journal, 2015, 279, 207-219.	6.6	12
11	New approach for regulation of the internal recirculation flow rate by fuzzy logic in biological wastewater treatments. ISA Transactions, 2022, 120, 167-189.	3.1	11
12	Model predictive control and fuzzy control in a hierarchical structure for wastewater treatment plants. , 2014, , .		9
13	Global Evaluation of Wastewater Treatment Plants Control Strategies Including CO 2 Emissions. IFAC-PapersOnLine, 2017, 50, 12956-12961.	0.5	9
14	Artificial Neural Network for nitrogen and ammonia effluent limit violations risk detection in Wastewater Treatment Plants. , 2015, , .		8
15	Control strategies for ammonia violations removal in BSM1 for dry, rain and storm weather conditions. , 2015, , .		7
16	Control and Decision Strategies in Wastewater Treatment Plants for Operation Improvement. Intelligent Systems, Control and Automation: Science and Engineering, 2017, , .	0.3	7
17	Decentralized Model Predictive Control for N and P removal in wastewater treatment plants. , 2018, , .		7
18	Fuzzy control applied on a benchmark simulation model for sewer networks. , 2016, , .		6

#	Article	IF	Citations
19	Optimization of the wastewater treatment processes based on the relaxation method. , 2017, , .		4
20	Process based control architecture for avoiding effluent pollutants quality limits violations in wastewater treatment plants. , 2015, , .		3
21	Control strategies for the sludge line in wastewater treatment plants. , 2016, , .		3
22	Event-based control for dissolved oxygen and nitrogen in wastewater treatment plants. , 2018, , .		3
23	Data Preprocessing for ANN-based Industrial Time-Series Forecasting with Imbalanced Data. , 2019, , .		3
24	Optimization of economic and environmental objectives in a Non Linear Model Predictive Control applied to a wastewater treatment plant. , 2016, , .		2
25	Manipulating the sludge flow to increase methane production and to reduce effluent pollution in wastewater treatment plants. , 2016, , .		2
26	Dissolved oxygen control in wastewater treatment plants considering sensor noise and actuator delays. , 2019, , .		2
27	Artificial Neural Networks Application to Support Plant Operation in the Wastewater Industry. IFIP Advances in Information and Communication Technology, 2019, , 257-265.	0.5	2
28	Global Internal Recirculation Alternative Operation to Reduce Nitrogen and Ammonia Limit Violations and Pumping Energy Costs in Wastewater Treatment Plants. Processes, 2020, 8, 1606.	1.3	2
29	Decentralized control strategies evaluation for an Integrated Urban Wastewater System. , 2017, , .		1
30	Hierarchical nitrite control for greenhouse gas emissions reduction in wastewater treatment plants. , 2016, , .		0
31	Event-based cascade controller for nitrogen removal in wastewater treatment plant. , 2018, , .		0
32	Denitrification and Nitrification Processes Improvement for Avoiding Pollutants Limits Violations in the Effluent. Intelligent Systems, Control and Automation: Science and Engineering, 2017, , 67-87.	0.3	0
33	Process Modelling and Simulation Scenarios. Intelligent Systems, Control and Automation: Science and Engineering, 2017, , 5-15.	0.3	0
34	Variable Dissolved Oxygen Set-Points Operation. Intelligent Systems, Control and Automation: Science and Engineering, 2017, , 45-66.	0.3	0
35	Control Approaches. Intelligent Systems, Control and Automation: Science and Engineering, 2017, , 17-33.	0.3	0
36	Effluent Predictions for Violations Risk Detection. Intelligent Systems, Control and Automation: Science and Engineering, 2017, , 89-95.	0.3	0

#	ARTICLE	IF	CITATIONS
37	Manipulating internal recirculation flow rate on the biological process in wastewater treatment. , 2020, , .		0