

Carles Pedret FerrÃ©

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

563
citations

840776

11
h-index

1125743

13
g-index

28
all docs

28
docs citations

28
times ranked

289
citing authors

#	ARTICLE	IF	CITATIONS
1	Applying variable dissolved oxygen set point in a two level hierarchical control structure to a wastewater treatment process. <i>Journal of Process Control</i> , 2015, 28, 40-55.	3.3	109
2	PID control in terms of robustness/performance and servo/regulator trade-offs: A unifying approach to balanced autotuning. <i>Journal of Process Control</i> , 2013, 23, 527-542.	3.3	82
3	Advanced decision control system for effluent violations removal in wastewater treatment plants. <i>Control Engineering Practice</i> , 2016, 49, 60-75.	5.5	60
4	Control strategies for nitrous oxide emissions reduction on wastewater treatment plants operation. <i>Water Research</i> , 2017, 125, 466-477.	11.3	55
5	Fuzzy Control and Model Predictive Control Configurations for Effluent Violations Removal in Wastewater Treatment Plants. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 2763-2775.	3.7	53
6	Fuzzy logic for plant-wide control of biological wastewater treatment process including greenhouse gas emissions. <i>ISA Transactions</i> , 2018, 77, 146-166.	5.7	40
7	On the model matching approach to PID design: Analytical perspective for robust Servo/Regulator tradeoff tuning. <i>Journal of Process Control</i> , 2010, 20, 596-608.	3.3	36
8	IMC-like analytical H ∞ design with S/SP mixed sensitivity consideration: Utility in PID tuning guidance. <i>Journal of Process Control</i> , 2011, 21, 976-985.	3.3	32
9	Dissolved Oxygen Control in Biological Wastewater Treatments with Non-Ideal Sensors and Actuators. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20639-20654.	3.7	18
10	Simple Analytical min ∞ max Model Matching Approach to Robust Proportional-Integrative-Derivative Tuning with Smooth Set-Point Response. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 690-700.	3.7	14
11	Removing violations of the effluent pollution in a wastewater treatment process. <i>Chemical Engineering Journal</i> , 2015, 279, 207-219.	12.7	12
12	New approach for regulation of the internal recirculation flow rate by fuzzy logic in biological wastewater treatments. <i>ISA Transactions</i> , 2022, 120, 167-189.	5.7	11
13	Artificial Neural Network for nitrogen and ammonia effluent limit violations risk detection in Wastewater Treatment Plants. , 2015, , .		8
14	Controller parameters dependence on model information through dimensional analysis. , 2009, , .		7
15	A 2DOF H ∞ robust tracking design for a special type of observed state feedback controllers. , 2008, , .		6
16	Analytical H ∞ design for a Smith-type inverse-response compensator. , 2009, , .		5
17	General Smith Predictors from an Observer-Controller perspective. , 2009, , .		5
18	Process based control architecture for avoiding effluent pollutants quality limits violations in wastewater treatment plants. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
19	Event-based control for dissolved oxygen and nitrogen in wastewater treatment plants. , 2018, , .		3
20	Sintoniãa de controladores PID: un enfoque analÃtico basado en el moldeo de la funciÃn de sensibilidad. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2021, 18, 313.	1.0	2
21	Unified Servo/Regulator design for robust PID tuning. , 2010, , .		1
22	PID tuning tackling design tradeoffs from an unified perspective. , 2017, , .		1
23	An undergraduate laboratory course on fuzzy controller implementation in FPGAs. , 2007, , .		0
24	Coprime factorization based strong stabilizing controller design. , 2007, , .		0
25	Hierarchical nitrite control for greenhouse gas emissions reduction in wastewater treatment plants. , 2016, , .		0
26	Event-based cascade controller for nitrogen removal in wastewater treatment plant. , 2018, , .		0
27	Control configurationfor robustness enhancement. , 2001, , .		0
28	Manipulating internal recirculation flow rate on the biological process in wastewater treatment. , 2020, , .		0