Ixbalank Torres ZÃºÃ±iga

List of Publications by Year
in descending order

23 papers	114 citations	1478280 6 h-index	1372474 10 g-index
23 all docs	23 docs citations	23 times ranked	148 citing authors

#	Article	IF	Citations
1	On-line heuristic optimization strategy to maximize the hydrogen production rate in a continuous stirred tank reactor. Process Biochemistry, 2015, 50, 893-900.	1.8	16
2	Experimental validation of online monitoring and optimization strategies applied to a biohydrogen production dark fermenter. Chemical Engineering Science, 2018, 190, 48-59.	1.9	14
3	Robust observation strategy to estimate the substrate concentration in the influent of a fermentative bioreactor for hydrogen production. Chemical Engineering Science, 2015, 129, 126-134.	1.9	13
4	Reduction of start-up time in a microbial fuel cell through the variation of external resistance. Energy Procedia, 2017, 142, 694-699.	1.8	13
5	Micro-algae productivity optimization using extremum-seeking control. , 2017, , .		10
6	Converting tequila vinasse diluted with tequila process water into microalgae-yeast flocs and dischargeable effluent. Bioresource Technology, 2020, 300, 122644.	4.8	10
7	Optimization of VARICOL SMB processes using hybrid modeling and nonlinear programming. Computers and Chemical Engineering, 2014, 71, 1-10.	2.0	8
8	Biogas purification via optimal microalgae growth: A literature review. Biotechnology Progress, 2018, 34, 1513-1532.	1.3	5
9	Experimental validation of an interval observer-based sensor fault detection strategy applied to a biohydrogen production dark fermenter. Journal of Process Control, 2022, 114, 131-142.	1.7	5
10	On the practical estimation of unknown inputs for polytopic LTI systems. IET Control Theory and Applications, 2018, 12, 466-476.	1.2	4
11	Extremum seeking control and gradient estimation based on the Super-Twisting algorithm. Journal of Process Control, 2021, 105, 223-235.	1.7	4
12	Observer-Based Sensor Fault Detection in a Dark Fermenter for Hydrogen Production. , 2021, 5, 1621-1626.		4
13	FPGA-Based Implementation of an Optimization Algorithm to Maximize the Productivity of a Microbial Electrolysis Cell. Processes, 2021, 9, 1111.	1.3	3
14	Extremum seeking control based on the super-twisting algorithm. IFAC-PapersOnLine, 2020, 53, 1621-1626.	0.5	3
15	Observer-based output feedback linearizing control applied to a denitrification reactor. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 102-107.	0.4	1
16	FPGA-based architecture to estimate the input glucose in a dark fermenter using a super-twisting observer. Microprocessors and Microsystems, 2021, 85, 104297.	1.8	1
17	Observer-based output feedback linear control applied to a denitrification reactor. , 2010, , .		0
18	Varicol process optimization strategy based on the solution of a MINLP. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 555-560.	0.4	0

#	Article	IF	Citations
19	Robust observation strategy to estimate unknown inputs**This research was financed by CONACYT (project 100298) and PAPIIT-UNAM (project IN112114). IFAC-PapersOnLine, 2016, 49, 1199-1204.	0.5	0
20	Comparison of two real-time optimization strategies to maximize the hydrogen production in a dark fermenter. IFAC-PapersOnLine, 2018, 51, 137-142.	0.5	0
21	Discrete-time online optimization of a microbial electrolysis cell for maximizing hydrogen production. , 2021, , .		0
22	Discrete-time online optimization of a continuous Dark Fermentation process for maximizing VFA production. , 2021, , .		0
23	Third order super twisting algorithm applied to a robotic arm with 3 degrees of freedom. , 2021, , .		0