Elmer Alberto Ccopa Rivera

List of Publications by Year
in descending order

35 papers	532 citations	623734 14 h-index	677142 22 g-index
37 all docs	37 docs citations	37 times ranked	647 citing authors

#	Article	IF	Citations
1	Evaluation of optimization techniques for parameter estimation: Application to ethanol fermentation considering the effect of temperature. Process Biochemistry, 2006, 41, 1682-1687.	3.7	72
2	Enzymatic hydrolysis of sugarcane bagasse for bioethanol production: determining optimal enzyme loading using neural networks. Journal of Chemical Technology and Biotechnology, 2010, 85, 983-992.	3.2	48
3	Effect of temperature on sugarcane ethanol fermentation: Kinetic modeling and validation under very-high-gravity fermentation conditions. Biochemical Engineering Journal, 2017, 119, 42-51.	3.6	47
4	A vertical integration simplified model for straw recovery as feedstock in sugarcane biorefineries. Biomass and Bioenergy, 2015, 81, 216-223.	5.7	34
5	Development of adaptive modeling techniques to describe the temperature-dependent kinetics of biotechnological processes. Biochemical Engineering Journal, 2007, 36, 157-166.	3.6	30
6	Concept of rice husk biorefining for levulinic acid production integrating three steps: Multi-response optimization, new perceptions and limitations. Process Biochemistry, 2018, 65, 146-156.	3.7	27
7	Emergy evaluation of organic and conventional marine shrimp farms in GuaraÃra Lagoon, Brazil. Journal of Cleaner Production, 2012, 35, 194-202.	9.3	25
8	Kinetic insights into the lignocellulosic biomass-based levulinic acid production by a mechanistic model. Cellulose, 2020, 27, 5641-5663.	4.9	22
9	Challenges to Levulinic Acid and Humins Valuation in the Sugarcane Bagasse Biorefinery Concept. Bioenergy Research, 2020, 13, 757-774.	3.9	21
10	Systems models to evaluate eutrophication in the Broa Reservoir, SÃ£o Carlos, Brazil. Ecological Modelling, 2007, 202, 518-526.	2.5	20
11	Data-Driven Modeling of Smartphone-Based Electrochemiluminescence Sensor Data Using Artificial Intelligence. Sensors, 2020, 20, 625.	3.8	20
12	Study of kinetic parameters in a mechanistic model for bioethanol production through a screening technique and optimization. Bioprocess and Biosystems Engineering, 2009, 32, 673-680.	3.4	18
13	Prior detection of genetic algorithm significant parameters: Coupling factorial design technique to genetic algorithm. Chemical Engineering Science, 2007, 62, 4780-4801.	3.8	17
14	Study of influence of yeast cells treatment on sugarcane ethanol fermentation: Operating conditions and kinetics. Biochemical Engineering Journal, 2019, 147, 1-10.	3.6	15
15	Development of real-time state estimators for reactionâ€"separation processes: A continuous flash fermentation as a study case. Chemical Engineering and Processing: Process Intensification, 2010, 49, 402-409.	3.6	12
16	Use of the VSB to Assess Biorefinery Strategies. Green Energy and Technology, 2016, , 189-256.	0.6	12
17	Resolving mismatches in the flexible production of ethanol and butanol from eucalyptus wood with vacuum fermentation. Bioprocess and Biosystems Engineering, 2018, 41, 1651-1663.	3.4	12
18	Ethyl Alcohol Production Optimization by Coupling Genetic Algorithm and Multilayer Perceptron Neural Network. Applied Biochemistry and Biotechnology, 2006, 132, 969-984.	2.9	10

#	Article	IF	Citations
19	Biodiesel production from vegetable oils: Operational strategies for large scale systems. Computer Aided Chemical Engineering, 2008, , 1101-1106.	0.5	9
20	Product Quality Monitoring Using Extreme Learning Machines and Bat algorithms: A Case Study in Second-Generation Ethanol Production. Computer Aided Chemical Engineering, 2014, 33, 955-960.	0.5	8
21	Estimation of temperature dependent parameters of a batch alcoholic fermentation process. Applied Biochemistry and Biotechnology, 2007, 137-140, 753-763.	2.9	7
22	Sustainability Assessment Methodologies. Green Energy and Technology, 2016, , 155-188.	0.6	7
23	Prediction of overall glucose yield in hydrolysis of pretreated sugarcane bagasse using a single artificial neural network: good insight for process development. Journal of Chemical Technology and Biotechnology, 2018, 93, 1031-1043.	3.2	7
24	A LabVIEW-based intelligent system for monitoring of bioprocesses. Computer Aided Chemical Engineering, 2009, , 309-314.	0.5	6
25	Kinetic Modeling and Parameter Estimation in a Tower Bioreactor for Bioethanol Production. Applied Biochemistry and Biotechnology, 2008, 148, 163-173.	2.9	5
26	Electrochemiluminescence Mechanisms Investigated with Smartphone‐Based Sensor Data Modeling, Parameter Estimation and Sensitivity Analysis. ChemistryOpen, 2020, 9, 854-863.	1.9	5
27	Quenching Behavior of the Electrochemiluminescence of $Ru(bpy)_3^{2+}$/TPrA System by Phenols on a Smartphone‐Based Sensor. ChemistryOpen, 2021, 10, 842-847.	1.9	5
28	Hybrid neural network model of an industrial ethanol fermentation process considering the effect of temperature. Applied Biochemistry and Biotechnology, 2007, 137-140, 817-833.	2.9	3
29	Bioethanol Production Optimization: A Thermodynamic Analysis. Applied Biochemistry and Biotechnology, 2008, 148, 141-149.	2.9	3
30	Hybrid modeling for continuous production of bioethanol. Computer Aided Chemical Engineering, 2006, 21, 613-618.	0.5	1
31	Analysis of Kinetic and Operational Parameters in a Structured Model for Acrylic Acid Production through Experimental Design. Applied Biochemistry and Biotechnology, 2008, 148, 175-187.	2.9	1
32	Soft-Sensor for Real-Time Estimation of Ethanol Concentration in Continuous Flash Fermentation. Computer Aided Chemical Engineering, 2009, 27, 1653-1658.	0.5	1
33	A CAPE approach to gamma-Linolenic acid production via lipase-catalyzed enzymatic hydrolysis. Computer Aided Chemical Engineering, 2007, 24, 941-946.	0.5	0
34	Bioethanol production sustainability: Outlook for improvement using computer-aided techniques. Computer Aided Chemical Engineering, 2007, , 929-934.	0.5	0
35	Abstract 1636: Development of a cell phone-based electrochemiluminescence biosensor to detect breast cancer biomarkers. , 2019, , .		0