## Rubens Maciel Filho

List of Publications by Year in descending order

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163 7,618 papers citations

47006 47 h-index 82 g-index

165 all docs 165 docs citations 165 times ranked 8209 citing authors

#	Article	IF	CITATIONS
1	Green production of limonene diepoxide for potential biomedical applications. Catalysis Today, 2022, 388-389, 288-300.	4.4	5
2	Sustainable Aviation Fuels: Production, Use and Impact on Decarbonization., 2022,, 348-371.		2
3	Isopropanol-butanol-ethanol production by cell-immobilized vacuum fermentation. Bioresource Technology, 2022, 344, 126313.	9.6	4
4	Are ionic liquids eco-friendly?. Renewable and Sustainable Energy Reviews, 2022, 157, 112039.	16.4	81
5	Correlating biomass properties, gasification performance, and syngas applications of Brazilian feedstocks via simulation and multivariate analysis. Industrial Crops and Products, 2022, 181, 114808.	5.2	11
6	Thorough evaluation of the available light-duty engine technologies to reduce greenhouse gases emissions in Brazil. Journal of Cleaner Production, 2022, 358, 132051.	9.3	8
7	Cultivation of Chlamydomonas reinhardtii in Anaerobically Digested Vinasse for Bioethanol Production. Waste and Biomass Valorization, 2021, 12, 857-865.	3.4	10
8	Corrosion resistance improvement of additive manufactured scaffolds by anodizing. Electrochimica Acta, 2021, 366, 137423.	5.2	10
9	Graphical Analysis of Plant-Wide Heat Cascade for Increasing Energy Efficiency in the Production of Ethanol and Sugar from Sugarcane. Process Integration and Optimization for Sustainability, 2021, 5, 335-359.	2.6	5
10	Effect of light, CO2 and nitrate concentration on Chlorella vulgaris growth and composition in a flat-plate photobioreactor. Brazilian Journal of Chemical Engineering, 2021, 38, 251-263.	1.3	8
11	Bone reconstruction surgery of complex craniomaxillofacial deformities using additive manufacturing customized implants - a case report. Rapid Prototyping Journal, 2021, 27, 872-878.	3.2	1
12	Evaluation of the feasibility of ethanol and gasoline in solid oxide fuel cell vehicles in Brazil. International Journal of Hydrogen Energy, 2021, 46, 36381-36397.	7.1	12
13	Multi-Objective Sustainability Optimization of Biomass Residues to Ethanol via Gasification and Syngas Fermentation: Trade-Offs between Profitability, Energy Efficiency, and Carbon Emissions. Fermentation, 2021, 7, 201.	3.0	4
14	Bottlenecks and potentials for the gasification of lignocellulosic biomasses and Fischer-Tropsch synthesis: A case study on the production of advanced liquid biofuels in Brazil. Energy Conversion and Management, 2021, 245, 114629.	9.2	8
15	Effects of cultivation conditions on Chlorella vulgaris and Desmodesmus sp. grown in sugarcane agro-industry residues. Bioresource Technology, 2021, 342, 125949.	9.6	11
16	Comparative Techno-Economic and Exergetic Analysis of Circulating and Dual Bed Biomass Gasification Systems. Frontiers in Chemical Engineering, 2021, 3, .	2.7	4
17	Current Advances in Separation and Purification of Second-Generation Lactic Acid. Separation and Purification Reviews, 2020, 49, 159-175.	5.5	39
18	Polyurethane fibrous membranes tailored by rotary jet spinning for tissue engineering applications. Journal of Applied Polymer Science, 2020, 137, 48455.	2.6	5

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19	Isopropanol-butanol-ethanol (IBE) production in repeated-batch cultivation of Clostridium beijerinckii DSM 6423 immobilized on sugarcane bagasse. Fuel, 2020, 263, 116708.	6.4	11
20	Optimization of Biomass Circulating Fluidized Bed Gasifier for Synthesis Applications using Simulation and Response Surface Methodology. Computer Aided Chemical Engineering, 2020, 48, 1585-1590.	0.5	1
21	Recent advances in lipid extraction using green solvents. Renewable and Sustainable Energy Reviews, 2020, 133, 110289.	16.4	<b>7</b> 3
22	CO <sub>2</sub> Gasification of Sugarcane Bagasse Char: Consideration of Pyrolysis Temperature, Silicon and Aluminum Contents, and Potassium Addition for Recirculation of Char. Energy & Sump; Fuels, 2020, 34, 16201-16211.	5.1	4
23	Enabling butanol production from crude sugarcane bagasse hemicellulose hydrolysate by batch-feeding it into molasses fermentation. Industrial Crops and Products, 2020, 155, 112837.	5.2	17
24	Biodiesel production from microalgae by direct transesterification using green solvents. Renewable Energy, 2020, 160, 1283-1294.	8.9	76
25	A Simple Biorefinery Concept to Produce 2G-Lactic Acid from Sugar Beet Pulp (SBP): A High-Value Target Approach to Valorize a Waste Stream. Molecules, 2020, 25, 2113.	3.8	21
26	Biochemical conversion of sugarcane bagasse into the alcohol fuel mixture of isopropanol-butanol-ethanol (IBE): Is it economically competitive with cellulosic ethanol?. Bioresource Technology, 2020, 314, 123712.	9.6	11
27	Production of ethanol fuel via syngas fermentation: Optimization of economic performance and energy efficiency. Chemical Engineering Science: X, 2020, 5, 100056.	1.5	7
28	Modeling ethanol production through gas fermentation: a biothermodynamics and mass transfer-based hybrid model for microbial growth in a large-scale bubble column bioreactor. Biotechnology for Biofuels, 2020, 13, 59.	6.2	27
29	Process design and evaluation of syngas-to-ethanol conversion plants. Journal of Cleaner Production, 2020, 269, 122078.	9.3	13
30	Concentrating second-generation lactic acid from sugarcane bagasse via hybrid short path evaporation: Operational challenges. Separation and Purification Technology, 2019, 209, 26-31.	7.9	13
31	Dynamic modeling of syngas fermentation in a continuous stirredâ€tank reactor: Multiâ€response parameter estimation and process optimization. Biotechnology and Bioengineering, 2019, 116, 2473-2487.	3.3	19
32	Influence of unit cell and geometry size on scaffolds electrochemical response. Journal of Electroanalytical Chemistry, 2019, 853, 113528.	3.8	7
33	A roadmap for renewable C2–C3 glycols production: a process engineering approach. Green Chemistry, 2019, 21, 5168-5194.	9.0	31
34	Low carbon biofuels and the New Brazilian National Biofuel Policy (RenovaBio): A case study for sugarcane mills and integrated sugarcane-microalgae biorefineries. Renewable and Sustainable Energy Reviews, 2019, 115, 109365.	16.4	80
35	Beyond ethanol, sugar, and electricity: a critical review of product diversification in Brazilian sugarcane mills. Biofuels, Bioproducts and Biorefining, 2019, 13, 809-821.	3.7	50
36	Towards enhanced n-butanol production from sugarcane bagasse hemicellulosic hydrolysate: Strain screening, and the effects of sugar concentration and butanol tolerance. Biomass and Bioenergy, 2019, 126, 190-198.	5.7	30

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37	(Epoxidized castor oil – citric acid) copolyester as a candidate polymer for biomedical applications. Journal of Polymer Research, 2019, 26, 1.	2.4	8
38	Acetone-free biobutanol production: Past and recent advances in the Isopropanol-Butanol-Ethanol (IBE) fermentation. Bioresource Technology, 2019, 287, 121425.	9.6	30
39	Comparison of several methods for effective lipid extraction from wet microalgae using green solvents. Renewable Energy, 2019, 143, 130-141.	8.9	85
40	Biodegradability study of Egeria densa biomass using acid and basic pre-treatments for use in bioprocessing of energy products. Bioresource Technology Reports, 2019, 6, 279-284.	2.7	5
41	Polymer grade l-lactic acid production from sugarcane bagasse hemicellulosic hydrolysate using Bacillus coagulans. Bioresource Technology Reports, 2019, 6, 26-31.	2.7	43
42	Sugarcane bagasse gasification: Simulation and analysis of different operating parameters, fluidizing media, and gasifier types. Biomass and Bioenergy, 2019, 122, 433-445.	5 <b>.</b> 7	34
43	Mass and Heat Integration in Ethanol Production Mills for Enhanced Process Efficiency and Exergy-Based Renewability Performance. Processes, 2019, 7, 670.	2.8	8
44	Biodiesel purification by column chromatography and liquid-liquid extraction using green solvents. Fuel, 2019, 235, 1123-1130.	6.4	45
45	Challenges and opportunities in lactic acid bioprocess designâ€"From economic to production aspects. Biochemical Engineering Journal, 2018, 133, 219-239.	3 <b>.</b> 6	223
46	Integration of microalgae production with industrial biofuel facilities: A critical review. Renewable and Sustainable Energy Reviews, 2018, 82, 1376-1392.	16.4	99
47	Process design and economics of a flexible ethanol-butanol plant annexed to a eucalyptus kraft pulp mill. Bioresource Technology, 2018, 250, 345-354.	9.6	16
48	Evaluation of Hybrid Short Path Evaporation to Concentrate Lactic Acid and Sugars from Fermentation. BioResources, 2018, 13, .	1.0	1
49	Sugar Extraction via Moving-Bed Diffusers in Ethanol Production Industry: Phenomenological Modeling and Finite-Volumes Simulation. Industrial & Engineering Chemistry Research, 2018, 57, 13769-13782.	3.7	1
50	Cardiac tissue engineering: current state-of-the-art materials, cells and tissue formation. Einstein (Sao Paulo, Brazil), 2018, 16, eRB4538.	0.7	51
51	Economic potential of 2-methyltetrahydrofuran (MTHF) and ethyl levulinate (EL) produced from hemicelluloses-derived furfural. Biomass and Bioenergy, 2018, 119, 492-502.	5 <b>.</b> 7	33
52	Laboratory extraction of microalgal lipids using sugarcane bagasse derived green solvents. Algal Research, 2018, 35, 292-300.	4.6	23
53	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
54	Different Strategies To Improve Lactic Acid Productivity Based on Microorganism Physiology and Optimum Operating Conditions. Industrial & Engineering Chemistry Research, 2018, 57, 10118-10125.	3.7	8

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55	Biomass gasification in fluidized beds: A review of biomass moisture content and operating pressure effects. Renewable and Sustainable Energy Reviews, 2018, 94, 998-1023.	16.4	203
56	Detoxification of sugarcane-derived hemicellulosic hydrolysate using a lactic acid producing strain. Journal of Biotechnology, 2018, 278, 56-63.	3.8	25
57	Hydrous bioethanol production from sugarcane bagasse via energy self-sufficient gasification-fermentation hybrid route: Simulation and financial analysis. Journal of Cleaner Production, 2017, 168, 1625-1635.	9.3	34
58	Central composite experimental design applied to evaluate the lactic acid concentration by short path evaporation. Chemical Engineering and Processing: Process Intensification, 2017, 117, 89-94.	3.6	7
59	Potential of algal biofuel production in a hybrid photobioreactor. Chemical Engineering Science, 2017, 171, 282-292.	3.8	27
60	Electrospun polyurethane membranes for Tissue Engineering applications. Materials Science and Engineering C, 2017, 72, 113-117.	7.3	55
61	Epoxy monomers obtained from castor oil using a toxicity-free catalytic system. Journal of Molecular Catalysis A, 2017, 426, 550-556.	4.8	49
62	Hydrodynamics and mass transfer in bubble column, conventional airlift, stirred airlift and stirred tank bioreactors, using viscous fluid: A comparative study. Biochemical Engineering Journal, 2017, 118, 70-81.	3.6	71
63	Purification of Lactic Acid Produced by Fermentation: Focus on Non-traditional Distillation Processes. Separation and Purification Reviews, 2017, 46, 241-254.	5.5	46
64	Lactic Acid Production to Purification: A Review. BioResources, 2017, 12, 4364-4383.	1.0	126
65	Influence of Residual Sugars on the Purification of Lactic Acid Using Short Path Evaporation. BioResources, 2017, 12, .	1.0	4
66	Lactic acid production to purification: A review. BioResources, 2017, 12, 4364-4383.	1.0	125
67	Botryococcus braunii for biodiesel production. Renewable and Sustainable Energy Reviews, 2016, 64, 260-270.	16.4	72
68	Sugarcane molasses fermentation with in situ gas stripping using low and moderate sugar concentrations for ethanol production: Experimental data and modeling. Biochemical Engineering Journal, 2016, 110, 152-161.	3.6	23
69	Influence of impeller type on hydrodynamics and gasâ€liquid massâ€transfer in stirred airlift bioreactor. AICHE Journal, 2015, 61, 3159-3171.	3.6	25
70	Lactic acid purification by reactive distillation system using design of experiments. Chemical Engineering and Processing: Process Intensification, 2015, 95, 26-30.	3 <b>.</b> 6	34
71	The Effect of Evaporator Temperature on Lactic Acid Purity and Recovery by Short Path Evaporation. Separation Science and Technology, 2015, 50, 1548-1553.	2.5	16
72	Functionalization of Ti6Al4V scaffolds produced by direct metal laser for biomedical applications. Materials and Design, 2015, 83, 6-13.	7.0	57

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73	Sugarcane processing for ethanol and sugar in Brazil. Environmental Development, 2015, 15, 35-51.	4.1	177
74	Biomass Processing Routes for Production of Raw Materials with High Added Value., 2015,, 241-273.		0
75	Customised titanium implant fabricated in additive manufacturing for craniomaxillofacial surgery. Virtual and Physical Prototyping, 2014, 9, 115-125.	10.4	101
76	Evaluation of lactic acid purification from fermentation broth by hybrid short path evaporation using factorial experimental design. Separation and Purification Technology, 2014, 136, 233-240.	7.9	23
77	Cranial reconstruction: 3D biomodel and custom-built implant created using additive manufacturing. Journal of Cranio-Maxillo-Facial Surgery, 2014, 42, 1877-1884.	1.7	277
78	Alkaline hydrogen peroxide pretreatment, enzymatic hydrolysis and fermentation of sugarcane bagasse to ethanol. Fuel, 2014, 136, 349-357.	6.4	98
79	Limonene epoxidation with H2O2 promoted by Al2O3: Kinetic study, experimental design. Journal of Catalysis, 2014, 319, 71-86.	6.2	50
80	Butanol production in a sugarcane biorefinery using ethanol as feedstock. Part II: Integration to a second generation sugarcane distillery. Chemical Engineering Research and Design, 2014, 92, 1452-1462.	5.6	29
81	Butanol production in a sugarcane biorefinery using ethanol as feedstock. Part I: Integration to a first generation sugarcane distillery. Chemical Engineering Research and Design, 2014, 92, 1441-1451.	5.6	38
82	Fluid catalytic cracking optimisation using factorial design and genetic algorithm techniques. Canadian Journal of Chemical Engineering, 2013, 91, 279-290.	1.7	7
83	Cogeneration in integrated first and second generation ethanol from sugarcane. Chemical Engineering Research and Design, 2013, 91, 1411-1417.	5.6	81
84	Butanol production in a first-generation Brazilian sugarcane biorefinery: Technical aspects and economics of greenfield projects. Bioresource Technology, 2013, 135, 316-323.	9.6	111
85	Utilization of pentoses from sugarcane biomass: Techno-economics of biogas vs. butanol production. Bioresource Technology, 2013, 142, 390-399.	9.6	81
86	Lime Pretreatment and Fermentation of Enzymatically Hydrolyzed Sugarcane Bagasse. Applied Biochemistry and Biotechnology, 2013, 169, 1696-1712.	2.9	30
87	Evaluation of process configurations for second generation integrated with first generation bioethanol production from sugarcane. Fuel Processing Technology, 2013, 109, 84-89.	7.2	76
88	Liquid–Liquid Equilibrium in Ternary Systems Present in Biodiesel Purification from Soybean Oil and Castor Oil at (298.2 and 333.2) K. Journal of Chemical & Engineering Data, 2013, 58, 605-610.	1.9	11
89	Biorefineries for the production of first and second generation ethanol and electricity from sugarcane. Applied Energy, 2013, 109, 72-78.	10.1	144
90	Estimation hydrodynamic parameters and mass transfer in a stirred airlift bioreactor using viscous fluids. New Biotechnology, 2012, 29, S213.	4.4	1

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91	Reliability–Based Optimization using Surface Response Methodology to Split Heavy Petroleum Fractions by Centrifugal Molecular Distillation Process. Separation Science and Technology, 2012, 47, 1213-1233.	2.5	9
92	Improving second generation ethanol production through optimization of first generation production process from sugarcane. Energy, 2012, 43, 246-252.	8.8	87
93	Evaluation of different cogeneration systems in first and second generation ethanol production from sugarcane. Computer Aided Chemical Engineering, 2012, , 172-176.	0.5	1
94	Economic and environmental assessment of integrated 1st and 2nd generation sugarcane bioethanol production evaluating different 2nd generation process alternatives. Computer Aided Chemical Engineering, 2012, 30, 177-181.	0.5	10
95	Evaluation of methyl chavicol concentration by different evaporation processes using central composite experimental design. Separation and Purification Technology, 2012, 98, 464-471.	7.9	18
96	Improvements in Biobutanol Fermentation and Their Impacts on Distillation Energy Consumption and Wastewater Generation. Bioenergy Research, 2012, 5, 504-514.	3.9	65
97	Environmental and economic assessment of sugarcane first generation biorefineries in Brazil. Clean Technologies and Environmental Policy, 2012, 14, 399-410.	4.1	136
98	Integrated versus stand-alone second generation ethanol production from sugarcane bagasse and trash. Bioresource Technology, 2012, 103, 152-161.	9.6	294
99	Poly-lactic acid synthesis for application in biomedical devices — A review. Biotechnology Advances, 2012, 30, 321-328.	11.7	929
100	Energy requirements during butanol production and in situ recovery by cyclic vacuum. Renewable Energy, 2012, 47, 183-187.	8.9	39
101	Assessment of <i>in situ</i> butanol recovery by vacuum during acetone butanol ethanol (ABE) fermentation. Journal of Chemical Technology and Biotechnology, 2012, 87, 334-340.	3.2	69
102	Energy Requirements for Butanol Recovery Using the Flash Fermentation Technology. Energy & Energy Fuels, 2011, 25, 2347-2355.	5.1	90
103	Analysis of the particle swarm algorithm in the optimization of a three-phase slurry catalytic reactor. Computers and Chemical Engineering, 2011, 35, 2741-2749.	3.8	10
104	Second generation ethanol in Brazil: Can it compete with electricity production?. Bioresource Technology, 2011, 102, 8964-8971.	9.6	188
105	Simulation of integrated first and second generation bioethanol production from sugarcane: comparison between different biomass pretreatment methods. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 955-966.	3.0	89
106	Fuzzy cognitive approach of a molecular distillation process. Chemical Engineering Research and Design, 2011, 89, 471-479.	5.6	15
107	Kinetics of Lime Pretreatment of Sugarcane Bagasse to Enhance Enzymatic Hydrolysis. Applied Biochemistry and Biotechnology, 2011, 163, 612-625.	2.9	31
108	Bioproduction of butanol in bioreactors: New insights from simultaneous in situ butanol recovery to eliminate product toxicity. Biotechnology and Bioengineering, 2011, 108, 1757-1765.	3.3	105

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109	Use of experimental design to investigate biodiesel production by multiple-stage Ultra-Shear reactor. Bioresource Technology, 2011, 102, 2672-2677.	9.6	22
110	Improving bioethanol production from sugarcane: evaluation of distillation, thermal integration and cogeneration systems. Energy, 2011, 36, 3691-3703.	8.8	157
111	Real-time optimization for lactic acid production from sucrose fermentation by Lactobacillus plantarum. Computer Aided Chemical Engineering, 2011, 29, 1396-1400.	0.5	6
112	Advanced Control of a Continuous Solution Copolymerization Process. International Journal of Chemical Engineering, 2011, 2011, 1-17.	2.4	1
113	Adaptive Advanced Control of a Copolymerization System. Computer Aided Chemical Engineering, 2011, 29, 693-697.	0.5	0
114	Production of Lactic Acid from Sucrose: Strain Selection, Fermentation, and Kinetic Modeling. Applied Biochemistry and Biotechnology, 2010, 161, 227-237.	2.9	43
115	Biodiesel Production from Integration Between Reaction and Separation System: Reactive Distillation Process. Applied Biochemistry and Biotechnology, 2010, 161, 245-254.	2.9	55
116	Optimisation of a fermentation process for butanol production by particle swarm optimisation (PSO). Journal of Chemical Technology and Biotechnology, 2010, 85, 934-949.	3.2	15
117	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
118	Nanoparticle processes modelling: The role of key parameters for population balances for on-line crystallization processes applications. Powder Technology, 2010, 202, 89-94.	4.2	4
119	Development of real-time state estimators for reaction–separation processes: A continuous flash fermentation as a study case. Chemical Engineering and Processing: Process Intensification, 2010, 49, 402-409.	3.6	12
120	Factorial design applied to concentrate bioactive component of Cymbopogon citratus essential oil using short path distillation. Chemical Engineering Research and Design, 2010, 88, 239-244.	5.6	26
121	Optimisation of a continuous flash fermentation for butanol production using the response surface methodology. Chemical Engineering Research and Design, 2010, 88, 562-571.	5.6	26
122	Optimization of a Three-Phase Catalytic Slurry Reactor Using Reduced Statistical Models. International Journal of Chemical Reactor Engineering, 2010, 8, .	1.1	2
123	Genetic Algorithms (Binary and Real Codes) for the Optimisation of a Fermentation Process for Butanol Production. International Journal of Chemical Reactor Engineering, 2010, 8, .	1.1	3
124	Simulation of ethanol production from sugarcane in Brazil: economic study of an autonomous distillery. Computer Aided Chemical Engineering, 2010, 28, 733-738.	0.5	24
125	A LabVIEW-based intelligent system for monitoring of bioprocesses. Computer Aided Chemical Engineering, 2009, , 309-314.	0.5	6
126	Soft-Sensor for Real-Time Estimation of Ethanol Concentration in Continuous Flash Fermentation. Computer Aided Chemical Engineering, 2009, 27, 1653-1658.	0.5	1

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127	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
128	Constructive learning neural network applied to identification and control of a fuel-ethanol fermentation process. Engineering Applications of Artificial Intelligence, 2009, 22, 201-215.	8.1	41
129	Lime Pretreatment of Sugarcane Bagasse for Bioethanol Production. Applied Biochemistry and Biotechnology, 2009, 153, 139-150.	2.9	120
130	Optimization Strategies Based on Sequential Quadratic Programming Applied for a Fermentation Process for Butanol Production. Applied Biochemistry and Biotechnology, 2009, 159, 366-381.	2.9	15
131	Production of bioethanol and other bio-based materials from sugarcane bagasse: Integration to conventional bioethanol production process. Chemical Engineering Research and Design, 2009, 87, 1206-1216.	5.6	262
132	Fuzzy Model-Based Predictive Hybrid Control of Polymerization Processes. Industrial & Engineering Chemistry Research, 2009, 48, 8542-8550.	3.7	26
133	Biodiesel Production from Castor Oil: Optimization of Alkaline Ethanolysis. Energy & Samp; Fuels, 2009, 23, 5636-5642.	5.1	83
134	Simulation of the Azeotropic Distillation for Anhydrous Bioethanol Production: Study on the Formation of a Second Liquid Phase. Computer Aided Chemical Engineering, 2009, , 1143-1148.	0.5	11
135	An Evaluation of a Multi-method Tool for Real-Time Implementation of Two-layer Optimization. Computer Aided Chemical Engineering, 2009, 26, 537-541.	0.5	1
136	Optimization of a large scale industrial reactor by genetic algorithms. Chemical Engineering Science, 2008, 63, 330-341.	3.8	32
137	A Comparison Between Lime and Alkaline Hydrogen Peroxide Pretreatments of Sugarcane Bagasse for Ethanol Production. Applied Biochemistry and Biotechnology, 2008, 144, 87-100.	2.9	50
138	A Comparison between Lime and Alkaline Hydrogen Peroxide Pretreatments of Sugarcane Bagasse for Ethanol Production. Applied Biochemistry and Biotechnology, 2008, 148, 45-58.	2.9	51
139	Evaluation of control algorithms for three-phase hydrogenation catalytic reactor. Chemical Engineering Journal, 2008, 141, 250-263.	12.7	11
140	A cognitive approach to develop dynamic models: Application to polymerization systems. Journal of Applied Polymer Science, 2007, 106, 981-992.	2.6	16
141	Considerations on the crystallization modeling: Population balance solution. Computers and Chemical Engineering, 2007, 31, 206-218.	3.8	78
142	Prior detection of genetic algorithm significant parameters: Coupling factorial design technique to genetic algorithm. Chemical Engineering Science, 2007, 62, 4780-4801.	3.8	17
143	Development of adaptive modeling techniques to describe the temperature-dependent kinetics of biotechnological processes. Biochemical Engineering Journal, 2007, 36, 157-166.	3.6	30
144	Control Strategies Evaluation for a Three-Phase Hydrogenation Catalytic Reactor. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 427-432.	0.4	0

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145	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
146	Mathematical modeling and optimal control strategy development for an adipic acid crystallization process. Chemical Engineering and Processing: Process Intensification, 2005, 44, 737-753.	3.6	42
147	Evaluation of optimisation techniques and control variable formulations for a batch cooling crystallization process. Chemical Engineering Science, 2005, 60, 5312-5322.	3.8	22
148	Development of a software for simulation analysis of the phenomenon of phase change of three-phase catalytic slurry reactor. Computers and Chemical Engineering, 2005, 29, 1369-1378.	3.8	6
149	Off-line optimization and control for real time integration of a three-phase hydrogenation catalytic reactor. Computers and Chemical Engineering, 2005, 29, 2485-2493.	3.8	11
150	Factorial design technique applied to genetic algorithm parameters in a batch cooling crystallization optimisation. Computers and Chemical Engineering, 2005, 29, 2229-2241.	3.8	23
151	Non-linear multivariable predictive control of an alcoholic fermentation process using functional link networks. Brazilian Archives of Biology and Technology, 2005, 48, 7-18.	0.5	9
152	Control and Optimization of a Three Phase Industrial Hydrogenation Reactor. International Journal of Chemical Reactor Engineering, 2004, 2, .	1.1	10
153	Development of a software for simulation analysis of the phenomenon of phase change of three-phase catalytic slurry reactor. Computer Aided Chemical Engineering, 2004, 18, 703-708.	0.5	0
154	Evaluation of Optimization Techniques for an Extractive Alcoholic Fermentation Process. Applied Biochemistry and Biotechnology, 2004, 114, 485-496.	2.9	8
155	Evaluation of Tocopherol Recovery Through Simulation of Molecular Distillation Process. Applied Biochemistry and Biotechnology, 2004, 114, 689-712.	2.9	27
156	Detailed deterministic dynamic models for computer aided design of multiphase slurry catalytic reactor. Computer Aided Chemical Engineering, 2004, , 823-828.	0.5	3
157	Dynamic Modelling of a Three-Phase Catalytic Slurry Reactor Considering the Phase Change Phenomenon. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 715-720.	0.4	0
158	Nonâ€Linear Predictive Control of a Threeâ€Phase Catalytic Reactor. Canadian Journal of Chemical Engineering, 2003, 81, 1109-1118.	1.7	1
159	Hybrid Neural Modeling Of Bioprocesses Using Functional Link Networks. Applied Biochemistry and Biotechnology, 2002, 98-100, 1009-1024.	2.9	16
160	Neural network and hybrid model: a discussion about different modeling techniques to predict pulping degree with industrial data. Chemical Engineering Science, 2001, 56, 565-570.	3.8	33
161	Dynamic modelling of a three-phase catalytic slurry reactor. Chemical Engineering Science, 2001, 56, 6055-6061.	3.8	50
162	Modeling and optimization of pulp and paper processes using neural networks. Computers and Chemical Engineering, 1998, 22, S981-S984.	3.8	6

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163	The E-S-T Method Based on the Grand Composite Curve Links Energy Consumption with Number of Stages and Stage Temperatures for Binary Mixture Distillation. Process Integration and Optimization for Sustainability, $0, 1$ .	2.6	1