Luiz Pereira Ramos

List of Publications by Citations

159 papers	5,317 citations	41 h-index	68 g-index
176 ext. papers	5,883 ext. citations	4.7 avg, IF	5.81 L-index

#	Paper	IF	Citations
159	The chemistry involved in the steam treatment of lignocellulosic materials. *Quimica Nova*, **2003**, 26, 863-871	1.1	381
158	Bioethanol from lignocelluloses: Status and perspectives in Brazil. *Bioresource Technology*, **2010**, 101, 4820-5	11	282
157	Current Pretreatment Technologies for the Development of Cellulosic Ethanol and Biorefineries. *ChemSusChem*, **2015**, 8, 3366-90	8.3	259
156	Comparison of Penicillium echinulatum and Trichoderma reesei cellulases in relation to their activity against various cellulosic substrates. *Bioresource Technology*, **2008**, 99, 1417-24	11	165
155	Molecular and structural characterization of the biosurfactant produced by Pseudomonas aeruginosa DAUPE 614. *Chemistry and Physics of Lipids*, **2007**, 147, 1-13	3.7	122
154	Fractionation of Eucalyptus grandis chips by dilute acid-catalysed steam explosion. *Bioresource Technology*, **2003**, 86, 105-15	11	121
153	Comparison of steam pretreatment of eucalyptus, aspen, and spruce wood chips and their enzymatic hydrolysis. *Applied Biochemistry and Biotechnology*, **1992**, 34-35, 37-48	3.2	117
152	Studies of the processing and characterization of corn starch and its composites with banana and sugarcane fibers from Brazil. *Carbohydrate Polymers*, **2010**, 80, 130-138	10.3	113
151	The influence of BHA, BHT and TBHQ on the oxidation stability of soybean oil ethyl esters (biodiesel). *Journal of the Brazilian Chemical Society*, **2007**, 18, 416-423	1.5	109
150	The use of enzyme recycling and the influence of sugar accumulation on cellulose hydrolysis by Trichoderma cellulases. *Enzyme and Microbial Technology*, **1993**, 15, 19-25	3.8	109
149	Multivariate monitoring of soybean oil ethanolysis by FTIR. *Talanta*, **2004**, 63, 1021-5	6.2	104
148	Optimization of the ethanolysis of Raphanus sativus (L. Var.) crude oil applying the response surface methodology. *Bioresource Technology*, **2008**, 99, 1837-45	11	103
147	Sugarcane biomass for biorefineries: comparative composition of carbohydrate and non-carbohydrate components of bagasse and straw. *Carbohydrate Polymers*, **2014**, 114, 95-101	10.3	98
146	Effect of enzymatic hydrolysis on the morphology and fine structure of pretreated cellulosic residues. *Enzyme and Microbial Technology*, **1993**, 15, 821-831	3.8	92
145	Esterification and transesterification reactions catalysed by addition of fermented solids to organic reaction media. *Journal of Molecular Catalysis B: Enzymatic*, **2007**, 44, 8-13		88
144	Production of fumaric acid by fermentation of enzymatic hydrolysates derived from cassava bagasse. *Bioresource Technology*, **1999**, 68, 23-28	11	88
143	Produ□ de biocombust□vel alternativo ao □leo diesel atrav□s da transesterifica□ de □leo de soja usado em frituras. *Quimica Nova*, **2000**, 23, 531-537	1.6	83

142	Bionanocomposites of thermoplastic starch reinforced with bacterial cellulose nanofibres: Effect of enzymatic treatment on mechanical properties. *Carbohydrate Polymers*, **2010**, 80, 866-873	10.3	82
141	Production of cellulosic ethanol from sugarcane bagasse by steam explosion: Effect of extractives content, acid catalysis and different fermentation technologies. *Bioresource Technology*, **2016**, 208, 184-194	11	81
140	New multifunctional materials obtained by the intercalation of anionic dyes into layered zinc hydroxide nitrate followed by dispersion into poly(vinyl alcohol) (PVA). *Journal of Colloid and Interface Science*, **2009**, 330, 303-9	9.3	79
139	Hardwood and softwood kraft lignins fractionation by simple sequential acid precipitation. *Separation and Purification Technology*, **2015**, 154, 82-88	8.3	78
138	Enzymatic hydrolysis of steam-exploded sugarcane bagasse using high total solids and low enzyme loadings. *Bioresource Technology*, **2015**, 175, 195-202	11	77
137	Relationships among the composition and physicochemical properties of starches with the characteristics of their films. *Journal of Agricultural and Food Chemistry*, **2004**, 52, 7720-5	5.7	77
136	Ethanolysis of Refined Soybean Oil Assisted by Sodium and Potassium Hydroxides. *JAOCS, Journal of the American Oil Chemistsl Society*, **2007**, 84, 385-392	1.8	75
135	A new zinc hydroxide nitrate heterogeneous catalyst for the esterification of free fatty acids and the transesterification of vegetable oils. *Catalysis Communications*, **2008**, 9, 2140-2143	3.2	71
134	Hydrolysis and synthesis reactions catalysed by Thermomyces lanuginosa lipase in the AOT/Isooctane reversed micellar system. *Journal of Molecular Catalysis B: Enzymatic*, **2004**, 30, 43-49		69
133	Polyaniline/lignin blends: FTIR, MEV and electrochemical characterization. *European Polymer Journal*, **2002**, 38, 2213-2217	5.2	69
132	Covalent Grafting of Ethylene Glycol into the Zn-Al-CO(3) Layered Double Hydroxide. *Journal of Colloid and Interface Science*, **2000**, 227, 445-451	9.3	64
131	Soybean oil and beef tallow alcoholysis by acid heterogeneous catalysis. *Applied Catalysis A: General* , **2009**, 361, 42-48	5.1	63
130	Acid-activated montmorillonites as heterogeneous catalysts for the esterification of lauric acid acid with methanol. *Applied Clay Science*, **2013**, 80-81, 236-244	5.2	60
129	Steam explosion pretreatment of oil palm empty fruit bunches (EFB) using autocatalytic hydrolysis: A biorefinery approach. *Bioresource Technology*, **2016**, 199, 173-180	11	57
128	Brazilian bioethanol program. *Applied Biochemistry and Biotechnology*, **2000**, 84-86, 1147-61	3.2	57
127	Steam Pretreatment Conditions for Effective Enzymatic Hydrolysis and Recovery Yields of Eucalyptus viminalis Wood Chips. *Holzforschung*, **1992**, 46, 149-154	2	54
126	Use of anhydrous sodium molybdate as an efficient heterogeneous catalyst for soybean oil methanolysis. *Applied Catalysis A: General*, **2008**, 351, 267-274	5.1	49
125	Structural constraints affecting the initial enzymatic hydrolysis of recycled paper. *Enzyme and Microbial Technology*, **1995**, 17, 68-74	3.8	49

124	Experimental design to enhance the production of l-(+)-lactic acid from steam-exploded wood hydrolysate using Rhizopus oryzae in a mixed-acid fermentation. *Process Biochemistry*, **1999**, 34, 949-955	4.8	48
123	Effects of low concentrations of ibuprofen on freshwater fish Rhamdia quelen. *Environmental Toxicology and Pharmacology*, **2018**, 59, 105-113	5.8	46
122	Ethanol production from sugars obtained during enzymatic hydrolysis of elephant grass (Pennisetum purpureum, Schum.) pretreated by steam explosion. *Bioresource Technology*, **2015**, 192, 228-37	11	44
121	Intercalation of Benzamide into Kaolinite. *Journal of Colloid and Interface Science*, **2000**, 221, 284-290	9.3	44
120	The effect of steam explosion on the production of sugarcane bagasse/polyester composites. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 364-370	8.4	42
119	Phase equilibrium data and thermodynamic modeling of the system (CO2 + biodiesel + methanol) at high pressures. *Journal of Chemical Thermodynamics*, **2012**, 44, 57-65	2.9	41
118	Studies of the effect of molding pressure and incorporation of sugarcane bagasse fibers on the structure and properties of poly (hydroxy butyrate). *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 573-582	8.4	40
117	Phase equilibrium data of the system CO2+glycerol+methanol at high pressures. *Journal of Supercritical Fluids*, **2011**, 59, 1-7	4.2	37
116	Enzyme recycling during fed-batch hydrolysis of cellulose derived from steam-explodedEucalyptus viminalis. *Applied Biochemistry and Biotechnology*, **1994**, 45-46, 193-207	3.2	36
115	Supercritical carbon dioxide combined with 1-butyl-3-methylimidazolium acetate and ethanol for the pretreatment and enzymatic hydrolysis of sugarcane bagasse. *Bioresource Technology*, **2015**, 192, 389-96	11	35
114	Catalisadores heterogêneos para a produção de monoésteres graxos (biodiesel). *Quimica Nova*, **2011**, 34, 477-486	1.6	33
113	Acid activated montmorillonite as catalysts in methyl esterification reactions of lauric acid. *Journal of Oleo Science*, **2012**, 61, 497-504	1.6	33
112	Investigation of a molybdenum-containing silica catalyst synthesized by the sol–gel process in heterogeneous catalytic esterification reactions using methanol and ethanol. *Applied Catalysis B: Environmental*, **2013**, 130-131, 314-324	21.8	32
111	Microalgae biodiesel via in situ methanolysis. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 1418-1427	3.5	31
110	The effect of Trichoderma cellulases on the fine structure of a bleached softwood kraft pulp. *Enzyme and Microbial Technology*, **1999**, 24, 371-380	3.8	30
109	Hemicellulose extraction from slash pine sawdust by steam explosion with sulfuric acid. *Biomass and Bioenergy*, **2017**, 107, 93-101	5.3	29
108	Supercritical Fluids: A Promising Technique for Biomass Pretreatment and Fractionation. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 252	5.8	29
107	Kinetics of enzyme-catalyzed hydrolysis of steam-exploded sugarcane bagasse. *Bioresource Technology*, **2013**, 147, 416-423	11	29

106	Subchronic effects of dipyrone on the fish species Rhamdia quelen. *Ecotoxicology and Environmental Safety*, **2011**, 74, 342-9	7	29
105	Phase behaviour measurements for the system (carbon dioxide + biodiesel + ethanol) at high pressures. *Journal of Chemical Thermodynamics*, **2012**, 47, 412-419	2.9	28
104	Extraction of Acutodesmus obliquus lipids using a mixture of ethanol and hexane as solvent. *Biomass and Bioenergy*, **2018**, 108, 470-478	5.3	27
103	Insight into the high-pressure CO2 pre-treatment of sugarcane bagasse for a delivery of upgradable sugars. *Energy*, **2018**, 151, 536-544	7.9	27
102	The potential of Humicola grisea var. thermoidea for bioconversion of sugar cane bagasse. *Bioresource Technology*, **1999**, 68, 35-41	11	26
101	Production of cellulosic ethanol from cotton processing residues after pretreatment with dilute sodium hydroxide and enzymatic hydrolysis. *Bioresource Technology*, **2015**, 187, 91-96	11	24
100	Current status of biodiesel development in Brazil. *Applied Biochemistry and Biotechnology*, **2005**, 121-124, 807-19	3.2	24
99	Elephant grass pretreated by steam explosion for inducing secretion of cellulases and xylanases by Penicillium echinulatum S1M29 solid-state cultivation. *Industrial Crops and Products*, **2015**, 77, 97-107	5.9	23
98	Biodiesel: Raw Materials, Production Technologies and Fuel Properties. *Revista Virtual De Quimica*, **2017**, 9, 317-369	1.3	23
97	Pretreatment of cotton spinning residues for optimal enzymatic hydrolysis: A case study using green solvents. *Renewable Energy*, **2020**, 145, 490-499	8.1	22
96	Elephant grass (Pennisetum purpureum Schum.) pretreated via steam explosion as a carbon source for cellulases and xylanases in submerged cultivation. *Industrial Crops and Products*, **2015**, 70, 280-291	5.9	21
95	Liquid–liquid phase equilibrium measurements and modeling for systems involving {soybean oil + ethyl esters + (ethanol + water)}. *Fuel*, **2015**, 141, 164-172	7.1	21
94	Comprehensive analysis of sugarcane bagasse steam explosion using autocatalysis and dilute acid hydrolysis (H3PO4 and H2SO4) at equivalent combined severity factors. *Industrial Crops and Products*, **2018**, 123, 563-572	5.9	21
93	Phase behavior measurement for the system CO2+glycerol+ethanol at high pressures. *Journal of Supercritical Fluids*, **2012**, 62, 41-46	4.2	21
92	Synthesis and Characterization of Polyols Derived from Corn Oil by Epoxidation and Ozonolysis. *JAOCS, Journal of the American Oil Chemistsl Society*, **2012**, 89, 1723-1731	1.8	21
91	Pretreatment of sugar cane bagasse for enhanced ruminal digestion. *Applied Biochemistry and Biotechnology*, **1996**, 57-58, 171-82	3.2	20
90	Assessment of the enzymatic hydrolysis profile of cellulosic substrates based on reducing sugar release. *Bioresource Technology*, **2014**, 151, 392-6	11	19
89	Phase behavior of (CO2 + methanol + lauric acid) system. *Journal of Chemical Thermodynamics*, **2011**, 43, 1074-1082	2.9	19

88	Esterification of fatty acids with supercritical ethanol in a continuous tubular reactor. *Journal of Supercritical Fluids*, **2017**, 126, 25-36	4.2	18
87	Characterization of residual lignin after SO(2)-catalyzed steam explosion and enzymatic hydrolysis of Eucalyptus viminalis wood chips. *Journal of Agricultural and Food Chemistry*, **1999**, 47, 2295-302	5.7	18
86	CAZymes-based ranking of fungi (CBRF): an interactive web database for identifying fungi with extrinsic plant biomass degrading abilities. *Bioresources and Bioprocessing*, **2019**, 6,	5.2	18
85	Liquid□liquid and vapor□liquid equilibrium data for biodiesel reaction□separation systems. *Fuel*, **2013**, 108, 269-276	7.1	16
84	Production of cellulosic ethanol from steam-exploded Eucalyptus urograndis and sugarcane bagasse at high total solids and low enzyme loadings. *Sustainable Chemical Processes*, **2016**, 4,		15
83	Lipid content and fatty acid profile of Nannochloropsis oculata before and after extraction with conventional solvents and/or compressed fluids. *Journal of Supercritical Fluids*, **2016**, 108, 89-95	4.2	15
82	Sono-assisted alkaline pretreatment of sugarcane bagasse for cellulosic ethanol production. *Catalysis Today*, **2016**, 269, 21-28	5.3	15
81	Integrated biomarker response index to assess toxic effects of environmentally relevant concentrations of paracetamol in a neotropical catfish (Rhamdia quelen). *Ecotoxicology and Environmental Safety*, **2019**, 182, 109438	7	15
80	Efeito do teor de umidade sobre o pr□tratamento a vapor e a hidr□lise enzim□tica do baga□o de cana-de-a□ar. *Quimica Nova*, **2012**, 35, 1502-1509	1.6	15
79	Biodiesel Production Technologies. *Revista Virtual De Quimica*, **2011**, 3,	1.3	15
78	Production of Fatty Acid Ethyl Esters from Waste Cooking Oil Using Novozym 435 in a Solvent-Free System. *Energy & Fuels*, **2015**, 29, 8074-8081	4.1	14
77	Prediction of linolenic and linoleic fatty acids content in flax seeds and flax seeds flours through the use of infrared reflectance spectroscopy and multivariate calibration. *Food Research International*, **2013**, 51, 848-854	7	14
76	Production of 5-(hydroxymethyl)-furfural from water-soluble carbohydrates and sugarcane molasses. *Applied Catalysis A: General*, **2017**, 545, 127-133	5.1	14
75	Enzymatic Hydrolysis of Steam-Treated Sugarcane Bagasse: Effect of Enzyme Loading and Substrate Total Solids on Its Fractal Kinetic Modeling and Rheological Properties. *Energy & Fuels*, **2017**, 31, 6211-6220	4.1	13
74	The Use of Acid-Activated Montmorillonite as a Solid Catalyst for the Production of Fatty Acid Methyl Esters. *Energy & Fuels*, **2014**, 28, 5834-5840	4.1	13
73	LDHs Instability in Esterification Reactions and Their Conversion to Catalytically Active Layered Carboxylates. *Catalysis Letters*, **2012**, 142, 763-770	2.8	13
72	Estudo do uso de plastificantes de fontes renov□el em composi□s de PVC. *Polimeros*, **2009**, 19, 263-270	1.6	13
71	Esterification of Fatty Acids Using a Bismuth-Containing Solid Acid Catalyst. *Energy & Fuels*, **2013**, 27, 2218-2225	4.1	12

70	Pretreated sugar cane bagasse as a model for cattle feeding. *Applied Biochemistry and Biotechnology*, **1995**, 51-52, 105-116	3.2	12
69	Application of the principal component analysis method in the biodegradation polyurethanes evaluation. *Materials Science and Engineering C*, **2009**, 29, 470-473	8.3	11
68	Desorption of cellulases from cotton powder. *Biotechnology Letters*, **2001**, 23, 1445-1448	3	11
67	Magnetically recyclable nanocatalysts based on magnetite: an environmentally friendly and recyclable catalyst for esterification reactions. *Biofuel Research Journal*, **2018**, 5, 806-812	13.9	11
66	Thermodynamic analysis, experimental and kinetic modeling of levulinic acid esterification with ethanol at supercritical conditions. *Fuel*, **2020**, 260, 116376	7.1	11
65	Assessment of biodiesel purification using CO2 at high pressures. *Journal of Supercritical Fluids*, **2015**, 96, 68-76	4.2	10
64	Methanolysis of Soybean Oil Using Tungsten-Containing Heterogeneous Catalysts. *Energy & Fuels*, **2011**, 25, 2794-2802	4.1	10
63	Comparison of the susceptibility of two hardwood species, Mimosa scabrella Benth and Eucalyptus viminalis labill, to steam explosion and enzymatic hydrolysis. *Brazilian Archives of Biology and Technology*, **2000**, 43, 195-206	1.8	10
62	The boosting effect of recombinant hemicellulases on the enzymatic hydrolysis of steam-treated sugarcane bagasse. *Enzyme and Microbial Technology*, **2020**, 133, 109447	3.8	10
61	Disruptive enzyme-based strategies to isolate nanocelluloses: a review. *Cellulose*, **2020**, 27, 5457-5475	5.5	9
60	Fungal Enzymatic Degradation of Cellulose. *Green Energy and Technology*, **2016**, 133-146	0.6	9
59	Evaluation of Castor Oil Cake Starch and Recovered Glycerol and Development of "Green" Composites Based on Those with Plant Fibers. *Materials*, **2016**, 9,	3.5	9
58	Multifunctionality of zinc carboxylate to produce acylglycerols, free fatty acids and fatty acids methyl esters. *Fuel*, **2019**, 244, 569-579	7.1	8
57	. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2015**, 22, 864-868	2.3	8
56	Principles and Challenges Involved in the Enzymatic Hydrolysis of Cellulosic Materials at High Total Solids. *Green Energy and Technology*, **2016**, 147-173	0.6	8
55	High-pressure phase equilibrium measurements and thermodynamic modeling for the systems involving CO2, ethyl esters (oleate, stearate, palmitate) and acetone. *Chemical Engineering Research and Design*, **2014**, 92, 2814-2825	5.5	8
54	Synthesis of fatty acid ethyl esters with conventional and microwave heating systems using the free lipase B from Candida antarctica. *Biocatalysis and Biotransformation*, **2019**, 37, 25-34	2.5	8
53	Consecutive Production of Hydroalcoholic Extracts, Carbohydrates Derivatives and Silica Nanoparticles from Equisetum arvense. *Waste and Biomass Valorization*, **2018**, 9, 1993-2002	3.2	7

52	Mtodo para a Determinaõ de idos Fenlicos na Parede Celular de Forragens. *Revista Brasileira De Zootecnia*, **2002**, 31, 1634-1639	1.2	7
51	Physical techniques shed light on the differences in sugarcane bagasse structure subjected to steam explosion pretreatments at equivalent combined severity factors. *Industrial Crops and Products*, **2020**, 158, 113003	5.9	7
50	Choricystis minor var. minor lipids: Extraction using conventional and pressurized solvents and assessment of their potential to produce fatty acid methyl esters. *Algal Research*, **2018**, 33, 28-35	5	7
49	Efficient esterification reaction of palmitic acid catalyzed by WO3-x/mesoporous silica. *Biofuels*, **2020**, 1-11	2	6
48	Pretreatment Processes for Cellulosic Ethanol Production: Processes Integration and Modeling for the Utilization of Lignocellulosics Such as Sugarcane Straw. *Green Energy and Technology*, **2016**, 107-131	0.6	6
47	Applications of Heterogeneous Catalysts in the Production of Biodiesel by Esterification and Transesterification **2014**, 255-276		6
46	Synthesis of new carbohydrate-based polyurethanes and their application in the purification of methyl esters (biodiesel). *Journal of Polymer Research*, **2013**, 20, 1	2.7	6
45	Quhica Sem Fronteiras: o desafio da energia. *Quimica Nova*, **2013**, 36, 1540-1551	1.6	6
44	Cassava starch maltodextrinization/monomerization through thermopressurized aqueous phosphoric acid hydrolysis. *Applied Biochemistry and Biotechnology*, **2001**, 91-93, 469-78	3.2	6
43	Lignin functionalization strategies and the potential applications of its derivatives A Review. *BioResources*, **2021**, 16, 6471-6511	1.3	6
42	Multiple response optimization of alkaline pretreatment of sisal fiber (Agave sisalana) assisted by ultrasound. *Biotechnology Progress*, **2019**, 35, e2802	2.8	5
41	Zinc Monoglycerolate as Highly Active and Reusable Catalyst in the Methyl Transesterification of Refined Soybean Oil. *Catalysis Letters*, **2013**, 143, 1235-1239	2.8	5
40	Phenolic compounds obtained from alkyl oleates as additives to improve the oxidative stability of methyl rapeseed biodiesel. *European Journal of Lipid Science and Technology*, **2017**, 119, 1700179	3	5
39	Alkaline earth layered benzoates as reusable heterogeneous catalysts for the methyl esterification of benzoic acid. *Quimica Nova*, **2012**, 35, 1510-1516	1.6	5
38	Chemical and structural characterization of hardwood and softwood LignoForcelignins. *Industrial Crops and Products*, **2021**, 173, 114138	5.9	5
37	Supercritical CO2 as solvent for fatty acids esterification with ethanol catalyzed by Amberlyst-15. *Journal of Supercritical Fluids*, **2020**, 158, 104736	4.2	5
36	Production of cellulases and xylanases by Humicola grisea var. thermoidea and application in sugarcane bagasse arabinoxylan hydrolysis. *Industrial Crops and Products*, **2020**, 158, 112968	5.9	5
35	Production of Furan Compounds from Sugarcane Bagasse Using a Catalytic System Containing ZnCl2/HCl or AlCl3/HCl in a Biphasic System. *Journal of the Brazilian Chemical Society*, **2018**,	1.5	5

34	Metadata Analysis Approaches for Understanding and Improving the Functional Involvement of Rumen Microbial Consortium in Digestion and Metabolism of Plant Biomass. *Journal of Genomics*, **2019**, 7, 31-45	0.9	4
33	PYROLIGNEOUS LIQUOR PRODUCED FROMAcacia mearnsiiDE WILD WOOD UNDER CONTROLLED CONDITIONS AS A RENEWABLE SOURCE OF CHEMICALS. *Quimica Nova*, **2015**,	1.6	4
32	Extraction of Muriella decolor lipids using conventional and pressurized solvents and characterization of their fatty acid profile for biodiesel applications. *Journal of Supercritical Fluids*, **2020**, 158, 104750	4.2	4
31	Ethanol Production from Sugarcane Bagasse Using Phosphoric Acid-Catalyzed Steam Explosion. *Journal of the Brazilian Chemical Society*, **2016**,	1.5	4
30	Avaliação da natureza da atividade catalítica de compostos de bismuto em reações de metanólise do óleo de soja. *Quimica Nova*, **2012**, 35, 108-113	1.6	3
29	SIMULTANEOUS ESTERIFICATION AND TRANSESTERIFICATION OF ACID OILS USING LAYERED ZINC CARBOXYLATES AS BIFUNCTIONAL CATALYSTS. *Quimica Nova*, **2014**,	1.6	3
28	Polymer Additives as Cold Flow Improvers for Palm Oil Methyl Esters. *Macromolecular Symposia*, **2019**, 383, 1800026	0.8	3
27	Bifunctional Additives To Improve the Cold Flow Properties and Oxidation Stability of Soybean Oil Biodiesel. *Energy & Fuels*, **2020**, 34, 5907-5916	4.1	3
26	Poly(alkyl acrylates) as Pour Point Improvers for Biofuels. *Macromolecular Symposia*, **2016**, 368, 40-48	0.8	2
25	The Essential Role of Plant Cell Wall Degrading Enzymes in the Success of Biorefineries: Current Status and Future Challenges **2014**, 151-172		2
24	Metal Glycerolates as Catalysts in the Transesterification of Refined Soybean Oil with Methanol under Reflux Conditions. *Journal of the Brazilian Chemical Society*, **2014**,	1.5	2
23	Assessment of cane straw as a suitable material for bioconversion through steam treatment and enzymatic hydrolysis. *Journal of Biotechnology*, **2010**, 150, 207-207	3.7	2
22	Method for characterization of the enzyme profile and the determination of CBH I (Cel 7a) core protein in Trichoderma reesei cellulase preparations. *World Journal of Microbiology and Biotechnology*, **2006**, 22, 821-825	4.4	2
21	Enzymatic Saccharification of Cellulosic Materials **2004**, 219-233		2
20	Brazilian Bioethanol Program **2000**, 1147-1161		2
19	Corn germ oil extraction with compressed propane compared with Soxhlet extraction. *Brazilian Journal of Chemical Engineering*,1	1.7	2
18	Impact of cellulose properties on enzymatic degradation by bacterial GH48 enzymes: Structural and mechanistic insights from processive Bacillus licheniformis Cel48B cellulase. *Carbohydrate Polymers* , **2021**, 264, 118059	10.3	2
17	Nanocomposites Based on Starch and Fibers of Natural Origin **2011**, 471-509		1

16	Characterization of Pretreated Fractions and Cellulosic Ethanol Production from Steam-Exploded Eucalyptus urograndis. *Energy & Fuels*, **2020**, 34, 535-545	4.1	1
15	Enzymes and biomass pretreatment **2020**, 61-100		1
14	Lumped intracellular dynamics: Mathematical modeling of the microalgae Tetradesmus obliquus cultivation under mixotrophic conditions with glycerol. *Algal Research*, **2021**, 57, 102344	5	1
13	Preparation of Polyurethane Foams Based on Maltodextrin and Their Potential Use in Methyl Ester (Biodiesel) Purification. *Macromolecular Symposia*, **2016**, 367, 163-167	0.8	1
12	Combination of green solvents for efficient sugarcane bagasse fractionation. *Biomass and Bioenergy*, **2022**, 161, 106482	5.3	1
11	Special issue on Nanocellulose characterization, production and use *Cellulose*, **2020**, 27, 10567-10569	5.5	0
10	Micro/nanostructured lignonanocellulose obtained from steam-exploded sugarcane bagasse. *Cellulose*, **2021**, 28, 10163	5.5	0
9	General Assessment of the Currently Available Biodiesel Production Technologies. *Green Energy and Technology*, **2016**, 291-326	0.6	
8	Current Status of Biodiesel Development in Brazil **2005**, 807-819		
7	Dry action of Trichoderma reesei cellulases on cotton fabrics. *Coloration Technology*, **2000**, 116, 121-125	2	
6	Bringing the concept of drop-in fuels into the pulp and paper industry. *BioResources*, **2021**, 16, 6553-6555	1.3	
5	Pretreatment of Sugar Cane Bagasse for Enhanced Ruminai Digestion **1996**, 171-182		
4	Virtual special issue on Nanocellulose characterization, production and use *Cellulose*, **2021**, 28, 1881-1882	5.5	
3	Pentose-rich hydrolysate from oil palm empty fruit bunches for glucan production using Pichia jadinii and Cyberlindnera jadinii. *Bioresource Technology*, **2021**, 320, 124212	11	
2	Kinetic Modeling of scCO2-Assisted Levulinic Acid Esterification with Ethanol Using Amberlyst-15 as a Catalyst in a Batch Reactor. *Energy & Fuels*, **2021**, 35, 14770-14779	4.1	
1	Chapter 3. Pre-treatment of Biomass Using CO2-based Methods. *RSC Green Chemistry*,37-65	0.9	