Michele Michelin

List of Publications by Citations

57 papers	1,186 citations	22 h-index	33 g-index
59 ext. papers	1,450 ext. citations	4.6 avg, IF	4.94 L-index

#	Paper	IF	Citations
57	Bioreactor design for enzymatic hydrolysis of biomass under the biorefinery concept. *Chemical Engineering Journal*, **2018**, 347, 119-136	14.7	87
56	Liquid hot water pretreatment of multi feedstocks and enzymatic hydrolysis of solids obtained thereof. *Bioresource Technology*, **2016**, 216, 862-9	11	75
55	Effect of phenolic compounds from pretreated sugarcane bagasse on cellulolytic and hemicellulolytic activities. *Bioresource Technology*, **2016**, 199, 275-278	11	70
54	Cellulose nanocrystals from grape pomace: Production, properties and cytotoxicity assessment. *Carbohydrate Polymers*, **2018**, 192, 327-336	10.3	69
53	Screening of filamentous fungi for production of enzymes of biotechnological interest. *Brazilian Journal of Microbiology*, **2006**, 37, 474-480	2.2	64
52	Nanocellulose Production: Exploring the Enzymatic Route and Residues of Pulp and Paper Industry. *Molecules*, **2020**, 25,	4.8	60
51	Xylanases from Aspergillus niger, Aspergillus niveus and Aspergillus ochraceus produced under solid-state fermentation and their application in cellulose pulp bleaching. *Bioprocess and Biosystems Engineering*, **2009**, 32, 819-24	3.7	55
50	Lignin from an integrated process consisting of liquid hot water and ethanol organosolv: Physicochemical and antioxidant properties. *International Journal of Biological Macromolecules*, **2018**, 120, 159-169	7.9	51
49	Purification and characterization of a thermostable □amylase produced by the fungus Paecilomyces variotii. *Carbohydrate Research*, **2010**, 345, 2348-53	2.9	51
48	Enhancement and modeling of enzymatic hydrolysis on cellulose from agave bagasse hydrothermally pretreated in a horizontal bioreactor. *Carbohydrate Polymers*, **2019**, 211, 349-359	10.3	45
47	Multi-step approach to add value to corncob: Production of biomass-degrading enzymes, lignin and fermentable sugars. *Bioresource Technology*, **2018**, 247, 582-590	11	37
46	Purification and biochemical characterization of a thermostable extracellular glucoamylase produced by the thermotolerant fungus Paecilomyces variotii. *Journal of Industrial Microbiology and Biotechnology*, **2008**, 35, 17-25	4.2	37
45	Production of xylanase by Aspergilli using alternative carbon sources: application of the crude extract on cellulose pulp biobleaching. *Journal of Industrial Microbiology and Biotechnology*, **2009**, 36, 149-55	4.2	34
44	Production of xylanase and □xylosidase from autohydrolysis liquor of corncob using two fungal strains. *Bioprocess and Biosystems Engineering*, **2012**, 35, 1185-92	3.7	33
43	Influence of volumetric oxygen transfer coefficient (kLa) on xylanases batch production by Aspergillus niger van Tieghem in stirred tank and internal-loop airlift bioreactors. *Biochemical Engineering Journal*, **2013**, 80, 19-26	4.2	30
42	Xylanase and □xylosidase production by Aspergillus ochraceus: new perspectives for the application of wheat straw autohydrolysis liquor. *Applied Biochemistry and Biotechnology*, **2012**, 166, 336-47	3.2	26
41	Production and properties of xylanases from Aspergillus terricola Marchal and Aspergillus ochraceus and their use in cellulose pulp bleaching. *Bioprocess and Biosystems Engineering*, **2010**, 33, 813-21	3.7	26

40	Carboxymethyl cellulose-based films: Effect of organosolv lignin incorporation on physicochemical and antioxidant properties. *Journal of Food Engineering*, **2020**, 285, 110107	6	24
39	Comparative autohydrolysis study of two mixtures of forest and marginal land resources for co-production of biofuels and value-added compounds. *Renewable Energy*, **2018**, 128, 20-29	8.1	24
38	Properties of a purified thermostable glucoamylase from Aspergillus niveus. *Journal of Industrial Microbiology and Biotechnology*, **2009**, 36, 1439-46	4.2	23
37	Production of xylanolytic enzymes by Aspergillus terricola in stirred tank and airlift tower loop bioreactors. *Journal of Industrial Microbiology and Biotechnology*, **2011**, 38, 1979-84	4.2	22
36	Trametes versicolor laccase production using agricultural wastes: a comparative study in Erlenmeyer flasks, bioreactor and tray. *Bioprocess and Biosystems Engineering*, **2020**, 43, 507-514	3.7	22
35	Green synthesis of lignin nano- and micro-particles: Physicochemical characterization, bioactive properties and cytotoxicity assessment. *International Journal of Biological Macromolecules*, **2020**, 163, 1798-1809	7.9	20
34	Purification and biochemical characterization of a novel alpha-glucosidase from Aspergillus niveus. *Antonie Van Leeuwenhoek*, **2009**, 96, 569-78	2.1	18
33	A novel xylan degrading β-D-xylosidase: purification and biochemical characterization. *World Journal of Microbiology and Biotechnology*, **2012**, 28, 3179-86	4.4	14
32	Purification and biochemical properties of multiple xylanases from Aspergillus ochraceus tolerant to Hg2+ ion and a wide range of pH. *Applied Biochemistry and Biotechnology*, **2014**, 174, 206-20	3.2	13
31	Purification, partial characterization, and covalent immobilization-stabilization of an extracellular β-amylase from Aspergillus niveus. *Folia Microbiologica*, **2013**, 58, 495-502	2.8	13
30	Co-production of biofuels and value-added compounds from industrial Eucalyptus globulus bark residues using hydrothermal treatment. *Fuel*, **2021**, 285, 119265	7.1	13
29	Sunflower stalk as a carbon source inductive for fungal xylanase production. *Industrial Crops and Products*, **2020**, 153, 112368	5.9	11
28	Valorization of Wastes From Agrofood and Pulp and Paper Industries Within the Biorefinery Concept: Southwestern Europe Scenario **2018**, 487-504		10
27	Lignocellulosic Materials and Their Use in Bio-based Packaging. *Springer Briefs in Molecular Science*, **2018**,	0.6	8
26	Partial Purification and Characterization of a Thermostable β-Mannanase from Aspergillus foetidus. *Applied Sciences (Switzerland)*, **2015**, 5, 881-893	2.6	8
25	Production of Biomass-Degrading Enzymes by Trichoderma reesei Using Liquid Hot Water-Pretreated Corncob in Different Conditions of Oxygen Transfer. *Bioenergy Research*, **2019**, 12, 583-592	3.1	7
24	Evidence of high production levels of thermostable dextrinizing and saccharogenic amylases by Aspergillus niveus. *African Journal of Biotechnology*, **2013**, 12, 1874-1881	0.6	7
23	Use of Cassava Peel as Carbon Source for Production of Amylolytic Enzymes by Aspergillus niveus. *International Journal of Food Engineering*, **2009**, 5,	1.9	7

22	Characterization of multiple xylanase forms from Aspergillus tamarii resistant to phenolic compounds. *Mycosphere*, **2016**, 7, 1554-1567	10.9	7
21	Cellulose from Lignocellulosic Waste **2014**, 1-33		6
20	Tunicamycin inhibition of N-glycosylation of β-glucosidase from Aspergillus niveus: partial influence on biochemical properties. *Biotechnology Letters*, **2010**, 32, 1449-55	3	6
19	Enzymes Involved in the Biodegradation of Sugarcane Biomass: Challenges and Perspectives **2017**, 55-79		5
18	Neosartorya glabra polygalacturonase produced from fruit peels as inducers has the potential for application in passion fruit and apple juices. *Brazilian Journal of Food Technology*, **2017**, 20,	1.5	5
17	Ligninolytic enzymes production during polycyclic aromatic hydrocarbons degradation: effect of soil pH, soil amendments and fungal co-cultivation. *Biodegradation*, **2021**, 32, 193-215	4.1	5
16	Development of a packed bed reactor for the removal of aromatic hydrocarbons from soil using laccase/mediator feeding system. *Microbiological Research*, **2021**, 245, 126687	5.3	5
15	Hot Compressed Water Pretreatment and Surfactant Effect on Enzymatic Hydrolysis Using Agave Bagasse. *Energies*, **2021**, 14, 4746	3.1	5
14	Valorization of lignocellulosic-based wastes **2020**, 383-410		4
13	Use of Lignocellulosic Materials in Bio-based Packaging. *Springer Briefs in Molecular Science*, **2018**, 65-85	0.6	4
12	Production and action of an Aspergillus phoenicis enzymatic pool using different carbon sources. *Brazilian Journal of Food Technology*, **2012**, 15, 253-260	1.5	4
11	Lignocellulosic Materials: Sources and Processing Technologies. *Springer Briefs in Molecular Science*, **2018**, 13-33	0.6	3
10	Challenges of Biomass Utilization for Bioenergy in a Climate Change Scenario.. *Biology*, **2021**, 10,	4.9	3
9	Production of Hemicellulases, Xylitol, and Furan from Hemicellulosic Hydrolysates Using Hydrothermal Pretreatment **2017**, 285-315		3
8	L-lactic acid production from multi-supply autohydrolyzed economically unexploited lignocellulosic biomass. *Industrial Crops and Products*, **2021**, 170, 113775	5.9	3
7	Saccharification of different sugarcane bagasse varieties by enzymatic cocktails produced by Mycothermus thermophilus and Trichoderma reesei RP698 cultures in agro-industrial residues. *Energy*, **2021**, 226, 120360	7.9	2
6	Functional Properties of Lignocellulosic Materials. *Springer Briefs in Molecular Science*, **2018**, 35-47	0.6	1
5	Conclusion and Future Trends. *Springer Briefs in Molecular Science*, **2018**, 95-97	0.6	1

4	Food Applications of Lignocellulosic-Based Packaging Materials. *Springer Briefs in Molecular Science*, **2018**, 87-94	0.6	0
3	Rehabilitation of a historically contaminated soil by different laccases and laccase-mediator system. *Journal of Soils and Sediments*,1	3.4	0
2	Processing, Production Methods and Characterization of Bio-Based Packaging Materials. *Springer Briefs in Molecular Science*, **2018**, 49-63	0.6	
1	Integrated technologies for extractives recovery, fractionation, and bioethanol production from lignocellulose **2022**, 107-139		