

Rachael Simister

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

673
citations

759233

12
h-index

713466

21
g-index

22
all docs

22
docs citations

22
times ranked

1074
citing authors

#	ARTICLE	IF	CITATIONS
1	An ancient family of lytic polysaccharide monooxygenases with roles in arthropod development and biomass digestion. <i>Nature Communications</i> , 2018, 9, 756.	12.8	192
2	Evaluating the composition and processing potential of novel sources of Brazilian biomass for sustainable biorenewables production. <i>Biotechnology for Biofuels</i> , 2014, 7, 10.	6.2	87
3	Cell wall remodeling under salt stress: Insights into changes in polysaccharides, feruloylation, lignification, and phenolic metabolism in maize. <i>Plant, Cell and Environment</i> , 2020, 43, 2172-2191.	5.7	79
4	Biomass composition of the golden tide pelagic seaweeds <i>Sargassum fluitans</i> and <i>S. natans</i> (morphotypes I and VIII) to inform valorisation pathways. <i>Science of the Total Environment</i> , 2021, 762, 143134.	8.0	72
5	Characterization of the cellulolytic secretome of <i>Trichoderma harzianum</i> during growth on sugarcane bagasse and analysis of the activity boosting effects of swollenin. <i>Biotechnology Progress</i> , 2016, 32, 327-336.	2.6	39
6	Optimization of biomass pretreatments using fractional factorial experimental design. <i>Biotechnology for Biofuels</i> , 2018, 11, 206.	6.2	37
7	A glycosyl transferase family 43 protein involved in xylan biosynthesis is associated with straw digestibility in <i>Brachypodium distachyon</i> . <i>New Phytologist</i> , 2018, 218, 974-985.	7.3	21
8	Side by Side Comparison of Chemical Compounds Generated by Aqueous Pretreatments of Maize Stover, Miscanthus and Sugarcane Bagasse. <i>Bioenergy Research</i> , 2014, 7, 1466-1480.	3.9	19
9	Nutrient and drought stress: implications for phenology and biomass quality in miscanthus. <i>Annals of Botany</i> , 2019, 124, 553-566.	2.9	19
10	Design of experiments driven optimization of alkaline pretreatment and saccharification for sugarcane bagasse. <i>Bioresource Technology</i> , 2021, 321, 124499.	9.6	16
11	Fast pyrolysis of rice husk under vacuum conditions to produce levoglucosan. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105105.	5.5	16
12	Sustainable Galactarate-Based Polymers: Multi-Enzymatic Production of Pectin-Derived Polyesters. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900361.	3.9	14
13	Improved hydrolysis yields and silica recovery by design of experiments applied to acid-alkali pretreatment in rice husks. <i>Industrial Crops and Products</i> , 2021, 170, 113676.	5.2	12
14	Biorefining Potential of Wild-Grown <i>Arundo donax</i> , <i>Cortaderia selloana</i> and <i>Phragmites australis</i> and the Feasibility of White-Rot Fungi-Mediated Pretreatments. <i>Frontiers in Plant Science</i> , 2021, 12, 679966.	3.6	11
15	Biomass recalcitrance in barley, wheat and triticale straw: Correlation of biomass quality with classic agronomical traits. <i>PLoS ONE</i> , 2018, 13, e0205880.	2.5	9
16	Sudangrass, an alternative lignocellulosic feedstock for bioenergy in Argentina. <i>PLoS ONE</i> , 2019, 14, e0217435.	2.5	8
17	Response of cell-wall composition and RNA-seq transcriptome to methyl-jasmonate in <i>Brachypodium distachyon</i> callus. <i>Planta</i> , 2018, 248, 1213-1229.	3.2	7
18	Linkage Mapping of Stem Saccharification Digestibility in Rice. <i>PLoS ONE</i> , 2016, 11, e0159117.	2.5	6

#	ARTICLE	IF	CITATIONS
19	Variability for cell-wall and yield components in commercial sugarcane (<i>Saccharum spp</i>) progeny: contrasts with parental lines and energy cane. <i>Journal of Crop Improvement</i> , 2022, 36, 769-788.	1.7	4
20	<i>Senna reticulata</i> : a Viable Option for Bioenergy Production in the Amazonian Region. <i>Bioenergy Research</i> , 2021, 14, 91-105.	3.9	3
21	Elucidating the multifunctional role of the cell wall components in the maize exploitation. <i>BMC Plant Biology</i> , 2021, 21, 251.	3.6	2