

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 | Variability for cell-wall and yield components in commercial sugarcane (<i>Saccharum spp</i>) progeny: contrasts with parental lines and energy cane. Journal of Crop Improvement, 2022, 36, 769-788. | 1.7 | 4 |
| 2 | 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. Science of the Total Environment, 2021, 762, 143134. | 8.0 | 72 |
| 3 | Design of experiments driven optimization of alkaline pretreatment and saccharification for sugarcane bagasse. Bioresource Technology, 2021, 321, 124499. | 9.6 | 16 |
| 4 | <i>Senna reticulata</i> : a Viable Option for Bioenergy Production in the Amazonian Region. Bioenergy Research, 2021, 14, 91-105. | 3.9 | 3 |
| 5 | Fast pyrolysis of rice husk under vacuum conditions to produce levoglucosan. Journal of Analytical and Applied Pyrolysis, 2021, 156, 105105. | 5.5 | 16 |
| 6 | Elucidating the multifunctional role of the cell wall components in the maize exploitation. BMC Plant Biology, 2021, 21, 251. | 3.6 | 2 |
| 7 | 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. Frontiers in Plant Science, 2021, 12, 679966. | 3.6 | 11 |
| 8 | Improved hydrolysis yields and silica recovery by design of experiments applied to acid-alkali pretreatment in rice husks. Industrial Crops and Products, 2021, 170, 113676. | 5.2 | 12 |
| 9 | Cell wall remodeling under salt stress: Insights into changes in polysaccharides, feruloylation, lignification, and phenolic metabolism in maize. Plant, Cell and Environment, 2020, 43, 2172-2191. | 5.7 | 79 |
| 10 | Nutrient and drought stress: implications for phenology and biomass quality in miscanthus. Annals of Botany, 2019, 124, 553-566. | 2.9 | 19 |
| 11 | Sustainable Galactarate-Based Polymers: Multi-Enzymatic Production of Pectin-Derived Polyesters. Macromolecular Rapid Communications, 2019, 40, e1900361. | 3.9 | 14 |
| 12 | Sudangrass, an alternative lignocellulosic feedstock for bioenergy in Argentina. PLoS ONE, 2019, 14, e0217435. | 2.5 | 8 |
| 13 | An ancient family of lytic polysaccharide monooxygenases with roles in arthropod development and biomass digestion. Nature Communications, 2018, 9, 756. | 12.8 | 192 |
| 14 | A glycosyl transferase family 43 protein involved in xylan biosynthesis is associated with straw digestibility in <i>Brachypodium distachyon</i>. New Phytologist, 2018, 218, 974-985. | 7.3 | 21 |
| 15 | Biomass recalcitrance in barley, wheat and triticale straw: Correlation of biomass quality with classic agronomical traits. PLoS ONE, 2018, 13, e0205880. | 2.5 | 9 |
| 16 | Optimization of biomass pretreatments using fractional factorial experimental design. Biotechnology for Biofuels, 2018, 11, 206. | 6.2 | 37 |
| 17 | Response of cell-wall composition and RNA-seq transcriptome to methyl-jasmonate in <i>Brachypodium distachyon</i> callus. Planta, 2018, 248, 1213-1229. | 3.2 | 7 |
| 18 | Characterization of the cellulolytic secretome of <i>Trichoderma harzianum</i> during growth on sugarcane bagasse and analysis of the activity boosting effects of swollenin. Biotechnology Progress, 2016, 32, 327-336. | 2.6 | 39 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Linkage Mapping of Stem Saccharification Digestibility in Rice. PLoS ONE, 2016, 11, e0159117. | 2.5 | 6 |
| 20 | Side by Side Comparison of Chemical Compounds Generated by Aqueous Pretreatments of Maize Stover, Miscanthus and Sugarcane Bagasse. Bioenergy Research, 2014, 7, 1466-1480. | 3.9 | 19 |
| 21 | Evaluating the composition and processing potential of novel sources of Brazilian biomass for sustainable biorenewables production. Biotechnology for Biofuels, 2014, 7, 10. | 6.2 | 87 |