

Leonardo D Gomez

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

4,248
citations

117571

34
h-index

118793

62
g-index

85
all docs

85
docs citations

85
times ranked

5882
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Valuable chemicals identified from <i>Flourensia</i> species using vacuum and analytical pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 161, 105382. | 2.6 | 2 |
| 2 | 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. | 0.9 | 4 |
| 3 | Integration of <i>Aspergillus niger</i> transcriptomic profile with metabolic model identifies potential targets to optimise citric acid production from lignocellulosic hydrolysate. , 2022, 15, 4. | | 3 |
| 4 | Flexible and digestible wood caused by viral-induced alteration of cell wall composition. <i>Current Biology</i> , 2022, , . | 1.8 | 0 |
| 5 | Cell Wall Composition Impacts Structural Characteristics of the Stems and Thereby Biomass Yield. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 8511-8511. | 2.4 | 0 |
| 6 | 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. | 3.9 | 72 |
| 7 | Design of experiments driven optimization of alkaline pretreatment and saccharification for sugarcane bagasse. <i>Bioresource Technology</i> , 2021, 321, 124499. | 4.8 | 16 |
| 8 | Thermochemical pretreatments of maize stem for sugar recovery: Comparative evaluation of microwave and conventional heating. <i>Industrial Crops and Products</i> , 2021, 160, 113106. | 2.5 | 13 |
| 9 | Overcoming the trade-off between grain weight and number in wheat by the ectopic expression of expansin in developing seeds leads to increased yield potential. <i>New Phytologist</i> , 2021, 230, 629-640. | 3.5 | 79 |
| 10 | <i>Senna reticulata</i> : a Viable Option for Bioenergy Production in the Amazonian Region. <i>Bioenergy Research</i> , 2021, 14, 91-105. | 2.2 | 3 |
| 11 | Fast pyrolysis of rice husk under vacuum conditions to produce levoglucosan. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105105. | 2.6 | 16 |
| 12 | FTIR Screening to Elucidate Compositional Differences in Maize Recombinant Inbred Lines with Contrasting Saccharification Efficiency Yields. <i>Agronomy</i> , 2021, 11, 1130. | 1.3 | 10 |
| 13 | Elucidating the multifunctional role of the cell wall components in the maize exploitation. <i>BMC Plant Biology</i> , 2021, 21, 251. | 1.6 | 2 |
| 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. | 1.7 | 11 |
| 15 | Accessory enzymes of hypercellulolytic <i>Penicillium funiculosum</i> facilitate complete saccharification of sugarcane bagasse. <i>Biotechnology for Biofuels</i> , 2021, 14, 171. | 6.2 | 14 |
| 16 | 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. | 2.5 | 12 |
| 17 | Anaerobic digestion of Crassulacean Acid Metabolism plants: Exploring alternative feedstocks for semi-arid lands. <i>Bioresource Technology</i> , 2020, 297, 122262. | 4.8 | 15 |
| 18 | Joint Selenium-Iodine Supply and Arbuscular Mycorrhizal Fungi Inoculation Affect Yield and Quality of Chickpea Seeds and Residual Biomass. <i>Plants</i> , 2020, 9, 804. | 1.6 | 17 |

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|----|---|-----|-----------|
| 19 | Association mapping identifies quantitative trait loci (QTL) for digestibility in rice straw. <i>Biotechnology for Biofuels</i> , 2020, 13, 165. | 6.2 | 7 |
| 20 | Transcriptomics predicts compound synergy in drug and natural product treated glioblastoma cells. <i>PLoS ONE</i> , 2020, 15, e0239551. | 1.1 | 15 |
| 21 | Valorisation of Natural Resources and the Need for Economic and Sustainability Assessment: The Case of Cocoa Pod Husk in Indonesia. <i>Sustainability</i> , 2020, 12, 8962. | 1.6 | 5 |
| 22 | Comparative evaluation of microwave-assisted acid, alkaline, and inorganic salt pretreatments of sugarcane bagasse for sugar recovery. <i>Biomass Conversion and Biorefinery</i> , 2020, , 1. | 2.9 | 19 |
| 23 | <i>Arabidopsis</i> <i>XTH4</i> and <i>XTH9</i> Contribute to Wood Cell Expansion and Secondary Wall Formation. <i>Plant Physiology</i> , 2020, 182, 1946-1965. | 2.3 | 45 |
| 24 | 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. | 2.8 | 79 |
| 25 | Nutrient and drought stress: implications for phenology and biomass quality in miscanthus. <i>Annals of Botany</i> , 2019, 124, 553-566. | 1.4 | 19 |
| 26 | Alcoholic fermentation of thermochemical and biological hydrolysates derived from <i>Miscanthus</i> biomass by <i>Clostridium acetobutylicum</i> ATCC 824. <i>Biomass and Bioenergy</i> , 2019, 130, 105382. | 2.9 | 7 |
| 27 | Sustainable Galactarate-Based Polymers: Multi-Enzymatic Production of Pectin-Derived Polyesters. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900361. | 2.0 | 14 |
| 28 | Sudangrass, an alternative lignocellulosic feedstock for bioenergy in Argentina. <i>PLoS ONE</i> , 2019, 14, e0217435. | 1.1 | 8 |
| 29 | Cell wall hydrolases act in concert during aerenchyma development in sugarcane roots. <i>Annals of Botany</i> , 2019, 124, 1067-1089. | 1.4 | 15 |
| 30 | Designing xylan for improved sustainable biofuel production. <i>Plant Biotechnology Journal</i> , 2019, 17, 2225-2227. | 4.1 | 15 |
| 31 | Integrated processing of sugarcane bagasse: Arabinoxylan extraction integrated with ethanol production. <i>Biochemical Engineering Journal</i> , 2019, 146, 31-40. | 1.8 | 17 |
| 32 | An ancient family of lytic polysaccharide monooxygenases with roles in arthropod development and biomass digestion. <i>Nature Communications</i> , 2018, 9, 756. | 5.8 | 192 |
| 33 | Bringing down the wall one brick at a time. <i>New Phytologist</i> , 2018, 218, 5-7. | 3.5 | 1 |
| 34 | 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. | 3.5 | 21 |
| 35 | Plant-Rhizobium symbiosis, seed nutraceuticals, and waste quality for energy production of <i>Vicia faba</i> L. as affected by crop management. <i>Chemical and Biological Technologies in Agriculture</i> , 2018, 5, . | 1.9 | 11 |
| 36 | Biomass recalcitrance in barley, wheat and triticale straw: Correlation of biomass quality with classic agronomical traits. <i>PLoS ONE</i> , 2018, 13, e0205880. | 1.1 | 9 |

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|----|--|------|-----------|
| 37 | Hemocyanin facilitates lignocellulose digestion by wood-boring marine crustaceans. <i>Nature Communications</i> , 2018, 9, 5125. | 5.8 | 29 |
| 38 | Valorisation strategies for cocoa pod husk and its fractions. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2018, 14, 80-88. | 3.2 | 91 |
| 39 | Optimization of biomass pretreatments using fractional factorial experimental design. <i>Biotechnology for Biofuels</i> , 2018, 11, 206. | 6.2 | 37 |
| 40 | Genetic engineering of grass cell wall polysaccharides for biorefining. <i>Plant Biotechnology Journal</i> , 2017, 15, 1071-1092. | 4.1 | 52 |
| 41 | Valorising faba bean residual biomass: Effect of farming system and planting time on the potential for biofuel production. <i>Biomass and Bioenergy</i> , 2017, 107, 227-232. | 2.9 | 32 |
| 42 | Genetic complexity of miscanthus cell wall composition and biomass quality for biofuels. <i>BMC Genomics</i> , 2017, 18, 406. | 1.2 | 22 |
| 43 | A new perspective in bio-refining: levoglucosenone and cleaner lignin from waste biorefinery hydrolysis lignin by selective conversion of residual saccharides. <i>Energy and Environmental Science</i> , 2016, 9, 2571-2574. | 15.6 | 79 |
| 44 | 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. | 1.3 | 39 |
| 45 | Efficient sugar production from sugarcane bagasse by microwave assisted acid and alkali pretreatment. <i>Biomass and Bioenergy</i> , 2016, 93, 269-278. | 2.9 | 115 |
| 46 | Expression of fungal acetyl xylan esterase in <i>Arabidopsis thaliana</i> improves saccharification of stem lignocellulose. <i>Plant Biotechnology Journal</i> , 2016, 14, 387-397. | 4.1 | 72 |
| 47 | Unlocking the potential of lignocellulosic biomass through plant science. <i>New Phytologist</i> , 2016, 209, 1366-1381. | 3.5 | 177 |
| 48 | Linkage Mapping of Stem Saccharification Digestibility in Rice. <i>PLoS ONE</i> , 2016, 11, e0159117. | 1.1 | 6 |
| 49 | Residual biomass saccharification in processing tomato is affected by cultivar and nitrogen fertilization. <i>Biomass and Bioenergy</i> , 2015, 72, 242-250. | 2.9 | 20 |
| 50 | Active fungal GH115 β -glucuronidase produced in <i>Arabidopsis thaliana</i> affects only the UX1-reactive glucuronate decorations on native glucuronoxylans. <i>BMC Biotechnology</i> , 2015, 15, 56. | 1.7 | 17 |
| 51 | Microwave assisted chemical pretreatment of <i>Miscanthus</i> under different temperature regimes. <i>Sustainable Chemical Processes</i> , 2015, 3, . | 2.3 | 43 |
| 52 | Supercritical extraction as an effective first-step in a maize stover biorefinery. <i>RSC Advances</i> , 2015, 5, 43831-43838. | 1.7 | 35 |
| 53 | Microwave assisted acid and alkali pretreatment of <i>Miscanthus</i> biomass for biorefineries. <i>AIMS Bioengineering</i> , 2015, 2, 449-468. | 0.6 | 31 |
| 54 | Side by Side Comparison of Chemical Compounds Generated by Aqueous Pretreatments of Maize Stover, <i>Miscanthus</i> and Sugarcane Bagasse. <i>Bioenergy Research</i> , 2014, 7, 1466-1480. | 2.2 | 19 |

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|----|---|-----|-----------|
| 55 | Range of cell-wall alterations enhance saccharification in <i>Brachypodium distachyon</i> mutants. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14601-14606. | 3.3 | 53 |
| 56 | 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 |
| 57 | Effects of pretreatment on morphology, chemical composition and enzymatic digestibility of eucalyptus bark: a potentially valuable source of fermentable sugars for biofuel production – part 1. Biotechnology for Biofuels, 2013, 6, 75. | 6.2 | 108 |
| 58 | Identification of crop cultivars with consistently high lignocellulosic sugar release requires the use of appropriate statistical design and modelling. Biotechnology for Biofuels, 2013, 6, 185. | 6.2 | 15 |
| 59 | Disrupting the <i>cinnamyl alcohol dehydrogenase 1</i> gene (<i>BdCAD1</i>) leads to altered lignification and improved saccharification in <i>Brachypodium distachyon</i> . Plant Journal, 2013, 73, 496-508. | 2.8 | 118 |
| 60 | Microwave-enhanced formation of glucose from cellulosic waste. Chemical Engineering and Processing: Process Intensification, 2013, 71, 37-42. | 1.8 | 39 |
| 61 | Latitudinal variation in ambient UV-B radiation is an important determinant of <i>Lolium perenne</i> forage production, quality, and digestibility. Journal of Experimental Botany, 2013, 64, 2193-2204. | 2.4 | 19 |
| 62 | <i>Arabidopsis</i> GT34 family contains five xyloglucan 1,6-xylosyltransferases. New Phytologist, 2012, 195, 585-595. | 3.5 | 64 |
| 63 | The Analysis of Saccharification in Biomass Using an Automated High-Throughput Method. Methods in Enzymology, 2012, 510, 37-50. | 0.4 | 10 |
| 64 | Role of Plant Laccases in Lignin Polymerization. Advances in Botanical Research, 2012, 61, 145-172. | 0.5 | 61 |
| 65 | High-throughput Saccharification Assay for Lignocellulosic Materials. Journal of Visualized Experiments, 2011, . . | 0.2 | 8 |
| 66 | <i>Arabidopsis</i> genes <i>IRREGULAR XYLEM1</i> (<i>IRX15</i>) and <i>IRX15L</i> encode DUF579-containing proteins that are essential for normal xylan deposition in the secondary cell wall. Plant Journal, 2011, 66, 401-413. | 2.8 | 134 |
| 67 | Automated saccharification assay for determination of digestibility in plant materials. Biotechnology for Biofuels, 2010, 3, 23. | 6.2 | 77 |
| 68 | <i>AtTPS1</i> -mediated trehalose 6-phosphate synthesis is essential for embryogenic and vegetative growth and responsiveness to ABA in germinating seeds and stomatal guard cells. Plant Journal, 2010, 64, no-no. | 2.8 | 173 |
| 69 | Expansins expression is associated with grain size dynamics in wheat (<i>Triticum aestivum</i> L.). Journal of Experimental Botany, 2010, 61, 1147-1157. | 2.4 | 119 |
| 70 | Arabinan Metabolism during Seed Development and Germination in <i>Arabidopsis</i> . Molecular Plant, 2009, 2, 966-976. | 3.9 | 50 |
| 71 | Analysis of saccharification in <i>Brachypodium distachyon</i> stems under mild conditions of hydrolysis. Biotechnology for Biofuels, 2008, 1, 15. | 6.2 | 44 |
| 72 | Sustainable liquid biofuels from biomass: the writing's on the walls. New Phytologist, 2008, 178, 473-485. | 3.5 | 349 |

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|----|--|-----|-----------|
| 73 | Delayed embryo development in the ARABIDOPSIS TREHALOSE-6-PHOSPHATE SYNTHASE 1 mutant is associated with altered cell wall structure, decreased cell division and starch accumulation. <i>Plant Journal</i> , 2006, 46, 69-84. | 2.8 | 181 |
| 74 | The role of trehalose-6-phosphate synthase in Arabidopsis embryo development. <i>Biochemical Society Transactions</i> , 2005, 33, 280-282. | 1.6 | 33 |
| 75 | Intercellular Distribution of Glutathione Synthesis in Maize Leaves and Its Response to Short-Term Chilling. <i>Plant Physiology</i> , 2004, 134, 1662-1671. | 2.3 | 110 |
| 76 | Regulation of calcium signalling and gene expression by glutathione. <i>Journal of Experimental Botany</i> , 2004, 55, 1851-1859. | 2.4 | 144 |
| 77 | Coordinate induction of glutathione biosynthesis and glutathione-metabolizing enzymes is correlated with salt tolerance in tomato. <i>FEBS Letters</i> , 2003, 554, 417-421. | 1.3 | 132 |
| 78 | Status of antioxidant metabolites and enzymes in a catalase-deficient mutant of barley (<i>Hordeum</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 | 1.7 | 33 |
| 79 | Regulation of photosynthesis and antioxidant metabolism in maize leaves at optimal and chilling temperatures: review. <i>Plant Physiology and Biochemistry</i> , 2002, 40, 659-668. | 2.8 | 170 |
| 80 | Antioxidant system response of different wheat cultivars under drought: field and in vitro studies. <i>Functional Plant Biology</i> , 2001, 28, 1095. | 1.1 | 38 |
| 81 | Wheat Chloroplastic Glutathione Reductase Activity is Regulated by the Combined Effect of pH, NADPH and GSSG. <i>Plant and Cell Physiology</i> , 1999, 40, 683-690. | 1.5 | 15 |
| 82 | Changes in glutathione reductase activity and protein content in wheat leaves and chloroplasts exposed to photooxidative stress. <i>Plant Physiology and Biochemistry</i> , 1998, 36, 321-329. | 2.8 | 33 |
| 83 | Inactivation and Degradation of CuZn-SOD by Active Oxygen Species in Wheat Chloroplasts Exposed to Photooxidative Stress. <i>Plant and Cell Physiology</i> , 1997, 38, 433-440. | 1.5 | 123 |