Luisa M Trindade

List of Publications by Year
in descending order

70 papers	2,682 citations	201575 27 h-index	206029 48 g-index
73 all docs	73 docs citations	73 times ranked	3423 citing authors

#	Article	IF	Citations
1	Cellulose synthesis complexes are homo-oligomeric and hetero-oligomeric in<i>Physcomitrium patens</i>. Plant Physiology, 2022, 188, 2115-2130.	2.3	6
2	Detection and Analysis of Syntenic Quantitative Trait Loci Controlling Cell Wall Quality in Angiosperms. Frontiers in Plant Science, 2022, 13, 855093.	1.7	2
3	Moisture content estimation and senescence phenotyping of novel <i>Miscanthus</i> hybrids combining UAVâ€based remote sensing and machine learning. GCB Bioenergy, 2022, 14, 639-656.	2.5	14
4	UAV Remote Sensing for High-Throughput Phenotyping and for Yield Prediction of Miscanthus by Machine Learning Techniques. Remote Sensing, 2022, 14, 2927.	1.8	3
5	Site impacts nutrient translocation efficiency in intraspecies and interspecies miscanthus hybrids on marginal lands. GCB Bioenergy, 2022, 14, 1035-1054.	2.5	9
6	Breeding Targets to Improve Biomass Quality in Miscanthus. Molecules, 2021, 26, 254.	1.7	19
7	RG-I galactan side-chains are involved in the regulation of the water-binding capacity of potato cell walls. Carbohydrate Polymers, 2020, 227, 115353.	5.1	24
8	Genetic Architecture of Flowering Time and Sex Determination in Hemp (Cannabis sativa L.): A Genome-Wide Association Study. Frontiers in Plant Science, 2020, 11, 569958.	1.7	31
9	Elucidating the Genetic Architecture of Fiber Quality in Hemp (Cannabis sativa L.) Using a Genome-Wide Association Study. Frontiers in Genetics, 2020, 11, 566314.	1.1	17
10	Overexpression of a putative nitrate transporter (StNPF1.11) increases plant height, leaf chlorophyll content and tuber protein content of young potato plants. Functional Plant Biology, 2020, 47, 464.	1.1	4
11	Genetic Variability of Morphological, Flowering, and Biomass Quality Traits in Hemp (Cannabis sativa) Tj ETQq1 1 0.784314 rgBT /Overlo	1.7	48
12	Marginal Lands to Grow Novel Bio-Based Crops: A Plant Breeding Perspective. Frontiers in Plant Science, 2020, 11, 227.	1.7	46
13	Phenotypic Variation of Cell Wall Composition and Stem Morphology in Hemp (Cannabis sativa L.): Optimization of Methods. Frontiers in Plant Science, 2019, 10, 959.	1.7	19
14	Genome-wide association analysis in tetraploid potato reveals four QTLs for protein content. Molecular Breeding, 2019, 39, 1.	1.0	24
15	The Complex Interactions Between Flowering Behavior and Fiber Quality in Hemp. Frontiers in Plant Science, 2019, 10, 614.	1.7	63
16	Neochloris oleoabundans cell walls have an altered composition when cultivated under different growing conditions. Algal Research, 2019, 40, 101482.	2.4	24
17	Exploring the Treasure of Plant Molecules With Integrated Biorefineries. Frontiers in Plant Science, 2019, 10, 478.	1.7	7
18	Convergent evolution of heteroâ€oligomeric cellulose synthesis complexes in mosses and seed plants. Plant Journal, 2019, 99, 862-876.	2.8	9

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19	Life cycle assessment of ethanol production from miscanthus: A comparison of production pathways at two European sites. GCB Bioenergy, 2019, 11, 269-288.	2.5	70
20	High-Altitude Wild Species Solanum arcanum LA385â€"A Potential Source for Improvement of Plant Growth and Photosynthetic Performance at Suboptimal Temperatures. Frontiers in Plant Science, 2019, 10, 1163.	1.7	7
21	Multi-allelic QTL analysis of protein content in a bi-parental population of cultivated tetraploid potato. Euphytica, 2019, 215, 14.	0.6	14
22	Breeding progress and preparedness for massâ€scale deployment of perennial lignocellulosic biomass crops switchgrass, miscanthus, willow and poplar. GCB Bioenergy, 2019, 11, 118-151.	2.5	116
23	Heterologous expression of two <i>Arabidopsis</i> starch dikinases in potato. Starch/Staerke, 2018, 70, 1600324.	1.1	3
24	Latitudinal Adaptation and Genetic Insights Into the Origins of Cannabis sativa L.. Frontiers in Plant Science, 2018, 9, 1876.	1.7	54
25	Exploring natural genetic variation in tomato sucrose synthases on the basis of increased kinetic properties. PLoS ONE, 2018, 13, e0206636.	1.1	11
26	Detailed biochemical and morphologic characteristics of the green microalga Neochloris oleoabundans cell wall. Algal Research, 2018, 35, 152-159.	2.4	62
27	Evaluation of <i>Miscanthus sinensis</i> biomass quality as feedstock for conversion into different bioenergy products. GCB Bioenergy, 2017, 9, 176-190.	2.5	70
28	Impact of drought stress on growth and quality of miscanthus for biofuel production. GCB Bioenergy, 2017, 9, 770-782.	2.5	85
29	Transgenic modification of potato pectic polysaccharides also affects type and level of cell wall xyloglucan. Journal of the Science of Food and Agriculture, 2017, 97, 3240-3248.	1.7	4
30	Genetic complexity of miscanthus cell wall composition and biomass quality for biofuels. BMC Genomics, 2017, 18, 406.	1.2	22
31	Starch phosphorylation plays an important role in starch biosynthesis. Carbohydrate Polymers, 2017, 157, 1628-1637.	5.1	35
32	Evaluation of both targeted and non-targeted cell wall polysaccharides in transgenic potatoes. Carbohydrate Polymers, 2017, 156, 312-321.	5.1	7
33	Site-Specific Management of Miscanthus Genotypes for Combustion and Anaerobic Digestion: A Comparison of Energy Yields. Frontiers in Plant Science, 2017, 8, 347.	1.7	34
34	Environmental Influences on the Growing Season Duration and Ripening of Diverse Miscanthus Germplasm Grown in Six Countries. Frontiers in Plant Science, 2017, 8, 907.	1.7	31
35	Engineering Potato Starch with a Higher Phosphate Content. PLoS ONE, 2017, 12, e0169610.	1.1	28
36	A tandem CBM25 domain of Î±-amylase from Microbacterium aurum as potential tool for targeting proteins to starch granules during starch biosynthesis. BMC Biotechnology, 2017, 17, 86.	1.7	4

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37	Progress on Optimizing Miscanthus Biomass Production for the European Bioeconomy: Results of the EU FP7 Project OPTIMISC. Frontiers in Plant Science, 2016, 7, 1620.	1.7	160
38	Drought stress tolerance strategies revealed by RNA-Seq in two sorghum genotypes with contrasting WUE. BMC Plant Biology, 2016, 16, 115.	1.6	165
39	Alteration of cell wall polysaccharides through transgenic expression of UDP-Glc 4-epimerase-encoding genes in potato tubers. Carbohydrate Polymers, 2016, 146, 337-344.	5.1	5
40	Maize feedstocks with improved digestibility reduce the costs and environmental impacts of biomass pretreatment and saccharification. Biotechnology for Biofuels, 2016, 9, 63.	6.2	17
41	Orphan Crops Browser: a bridge between model and orphan crops. Molecular Breeding, 2016, 36, 9.	1.0	18
42	Modification of potato cell wall pectin by the introduction of rhamnogalacturonan lyase and Î²-galactosidase transgenes and their side effects. Carbohydrate Polymers, 2016, 144, 9-16.	5.1	17
43	Drought tolerance strategies highlighted by two Sorghum bicolor races in a dry-down experiment. Journal of Plant Physiology, 2016, 190, 1-14.	1.6	55
44	Impact of Different Lignin Fractions on Saccharification Efficiency in Diverse Species of the Bioenergy Crop Miscanthus. Bioenergy Research, 2016, 9, 146-156.	2.2	33
45	Stability of Cell Wall Composition and Saccharification Efficiency in Miscanthus across Diverse Environments. Frontiers in Plant Science, 2016, 7, 2004.	1.7	22
46	Expression of an (Engineered) 4,6-Î±-Glucanotransferase in Potato Results in Changes in Starch Characteristics. PLoS ONE, 2016, 11, e0166981.	1.1	2
47	Extent of genotypic variation for maize cell wall bioconversion traits across environments and among hybrid combinations. Euphytica, 2015, 206, 501-511.	0.6	3
48	Cell Wall Diversity in Forage Maize: Genetic Complexity and Bioenergy Potential. Bioenergy Research, 2015, 8, 187-202.	2.2	25
49	How cell wall complexity influences saccharification efficiency in<i>Miscanthus sinensis</i>. Journal of Experimental Botany, 2015, 66, 4351-4365.	2.4	82
50	Bioethanol from maize cell walls: genes, molecular tools, and breeding prospects. GCB Bioenergy, 2015, 7, 591-607.	2.5	19
51	New developments in fiber hemp (Cannabis sativa L.) breeding. Industrial Crops and Products, 2015, 68, 32-41.	2.5	240
52	KORRIGAN1 Interacts Specifically with Integral Components of the Cellulose Synthase Machinery. PLoS ONE, 2014, 9, e112387.	1.1	41
53	Starch Modification by Biotechnology. , 2014, , 79-102.		5
54	Pectic arabinan side chains are essential for pollen cell wall integrity during pollen development. Plant Biotechnology Journal, 2014, 12, 492-502.	4.1	39

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55	The Cellulase KORRIGAN Is Part of the Cellulose Synthase Complex Â. Plant Physiology, 2014, 165, 1521-1532.	2.3	145
56	Expression of an amylosucrase gene in potato results in larger starch granules with novel properties. Planta, 2014, 240, 409-421.	1.6	14
57	Side by Side Comparison of Chemical Compounds Generated by Aqueous Pretreatments of Maize Stover, Miscanthus and Sugarcane Bagasse. Bioenergy Research, 2014, 7, 1466-1480.	2.2	19
58	Effect of Maize Biomass Composition on the Optimization of Dilute-Acid Pretreatments and Enzymatic Saccharification. Bioenergy Research, 2013, 6, 1038-1051.	2.2	37
59	Expression of an engineered granuleâ€bound <i><scp>E</scp>scherichia coli</i> glycogen branching enzyme in potato results in severe morphological changes in starch granules. Plant Biotechnology Journal, 2013, 11, 470-479.	4.1	17
60	The potential of C4 grasses for cellulosic biofuel production. Frontiers in Plant Science, 2013, 4, 107.	1.7	170
61	Complexes with Mixed Primary and Secondary Cellulose Synthases Are Functional in Arabidopsis Plants Â Â. Plant Physiology, 2012, 160, 726-737.	2.3	95
62	Production of small starch granules by expression of a tandem-repeat of a family 20 starch-binding domain (SBD3-SBD5) in an amylose-free potato genetic background. Functional Plant Biology, 2012, 39, 146.	1.1	17
63	Interactions between membraneâ€bound cellulose synthases involved in the synthesis of the secondary cell wall. FEBS Letters, 2009, 583, 978-982.	1.3	68
64	PRECISE: Software for Prediction of cis-Acting Regulatory Elements. Journal of Heredity, 2005, 96, 618-622.	1.0	5
65	Analysis of genes differentially expressed during potato tuber life cycle and isolation of their promoter regions. Plant Science, 2004, 166, 423-433.	1.7	12
66	Isolation and functional characterization of a stolon specific promoter from potato (Solanum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	1.0	19
67	Isolation of a Gene Encoding a Copper Chaperone for the Copper/Zinc Superoxide Dismutase and Characterization of Its Promoter in Potato. Plant Physiology, 2003, 133, 618-629.	2.3	20
68	Expression Analysis of a Family of nsLTP Genes Tissue Specifically Expressed throughout the Plant and during Potato Tuber Life Cycle. Plant Physiology, 2002, 129, 1494-1506.	2.3	28
69	A potato tuber-expressed mRNA with homology to steroid dehydrogenases affects gibberellin levels and plant development. Plant Journal, 2001, 25, 595-604.	2.8	32
70	Investigating applied drought in <i>Miscanthus sinensis;</i> sensitivity, response mechanisms, and subsequent recovery. GCB Bioenergy, 0, , .	2.5	2