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	New developments in fiber hemp (Cannabis sativa L.) breeding. Industrial Crops and Products, 2015, 68, 32-41.	2.5	240
2	The potential of C4 grasses for cellulosic biofuel production. Frontiers in Plant Science, 2013, 4, 107.	1.7	170
3	Drought stress tolerance strategies revealed by RNA-Seq in two sorghum genotypes with contrasting WUE. BMC Plant Biology, 2016, 16, 115.	1.6	165
4	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
5	The Cellulase KORRIGAN Is Part of the Cellulose Synthase Complex Â. Plant Physiology, 2014, 165, 1521-1532.	2.3	145
6	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
7	Complexes with Mixed Primary and Secondary Cellulose Synthases Are Functional in Arabidopsis Plants Â Â. Plant Physiology, 2012, 160, 726-737.	2.3	95
8	Impact of drought stress on growth and quality of miscanthus for biofuel production. GCB Bioenergy, 2017, 9, 770-782.	2.5	85
9	How cell wall complexity influences saccharification efficiency in<i>Miscanthus sinensis</i>. Journal of Experimental Botany, 2015, 66, 4351-4365.	2.4	82
10	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
11	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
12	Interactions between membraneâ€bound cellulose synthases involved in the synthesis of the secondary cell wall. FEBS Letters, 2009, 583, 978-982.	1.3	68
13	The Complex Interactions Between Flowering Behavior and Fiber Quality in Hemp. Frontiers in Plant Science, 2019, 10, 614.	1.7	63
14	Detailed biochemical and morphologic characteristics of the green microalga Neochloris oleoabundans cell wall. Algal Research, 2018, 35, 152-159.	2.4	62
15	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
16	Latitudinal Adaptation and Genetic Insights Into the Origins of Cannabis sativa L.. Frontiers in Plant Science, 2018, 9, 1876.	1.7	54
17	Genetic Variability of Morphological, Flowering, and Biomass Quality Traits in Hemp (Cannabis sativa) Tj ETQq1 1 0.784314 rgBT /Overlo	1.7	48
18	Marginal Lands to Grow Novel Bio-Based Crops: A Plant Breeding Perspective. Frontiers in Plant Science, 2020, 11, 227.	1.7	46

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19	KORRIGAN1 Interacts Specifically with Integral Components of the Cellulose Synthase Machinery. PLoS ONE, 2014, 9, e112387.	1.1	41
20	Pectic arabinan side chains are essential for pollen cell wall integrity during pollen development. Plant Biotechnology Journal, 2014, 12, 492-502.	4.1	39
21	Effect of Maize Biomass Composition on the Optimization of Dilute-Acid Pretreatments and Enzymatic Saccharification. Bioenergy Research, 2013, 6, 1038-1051.	2.2	37
22	Starch phosphorylation plays an important role in starch biosynthesis. Carbohydrate Polymers, 2017, 157, 1628-1637.	5.1	35
23	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
24	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
25	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
26	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
27	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
28	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
29	Engineering Potato Starch with a Higher Phosphate Content. PLoS ONE, 2017, 12, e0169610.	1.1	28
30	Cell Wall Diversity in Forage Maize: Genetic Complexity and Bioenergy Potential. Bioenergy Research, 2015, 8, 187-202.	2.2	25
31	Genome-wide association analysis in tetraploid potato reveals four QTLs for protein content. Molecular Breeding, 2019, 39, 1.	1.0	24
32	Neochloris oleoabundans cell walls have an altered composition when cultivated under different growing conditions. Algal Research, 2019, 40, 101482.	2.4	24
33	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
34	Genetic complexity of miscanthus cell wall composition and biomass quality for biofuels. BMC Genomics, 2017, 18, 406.	1.2	22
35	Stability of Cell Wall Composition and Saccharification Efficiency in Miscanthus across Diverse Environments. Frontiers in Plant Science, 2016, 7, 2004.	1.7	22
36	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

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37	Isolation and functional characterization of a stolon specific promoter from potato (Solanum) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.6	19
38	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
39	Bioethanol from maize cell walls: genes, molecular tools, and breeding prospects. GCB Bioenergy, 2015, 7, 591-607.	2.5	19
40	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
41	Breeding Targets to Improve Biomass Quality in Miscanthus. Molecules, 2021, 26, 254.	1.7	19
42	Orphan Crops Browser: a bridge between model and orphan crops. Molecular Breeding, 2016, 36, 9.	1.0	18
43	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
44	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
45	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
46	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
47	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
48	Expression of an amylosucrase gene in potato results in larger starch granules with novel properties. Planta, 2014, 240, 409-421.	1.6	14
49	Multi-allelic QTL analysis of protein content in a bi-parental population of cultivated tetraploid potato. Euphytica, 2019, 215, 14.	0.6	14
50	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
51	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
52	Exploring natural genetic variation in tomato sucrose synthases on the basis of increased kinetic properties. PLoS ONE, 2018, 13, e0206636.	1.1	11
53	Convergent evolution of heteroâ€oligomeric cellulose synthesis complexes in mosses and seed plants. Plant Journal, 2019, 99, 862-876.	2.8	9
54	Site impacts nutrient translocation efficiency in intraspecies and interspecies miscanthus hybrids on marginal lands. GCB Bioenergy, 2022, 14, 1035-1054.	2.5	9

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55	Evaluation of both targeted and non-targeted cell wall polysaccharides in transgenic potatoes. Carbohydrate Polymers, 2017, 156, 312-321.	5.1	7
56	Exploring the Treasure of Plant Molecules With Integrated Biorefineries. Frontiers in Plant Science, 2019, 10, 478.	1.7	7
57	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
58	Cellulose synthesis complexes are homo-oligomeric and hetero-oligomeric in<i>Physcomitrium patens</i>. Plant Physiology, 2022, 188, 2115-2130.	2.3	6
59	PRECISE: Software for Prediction of cis-Acting Regulatory Elements. Journal of Heredity, 2005, 96, 618-622.	1.0	5
60	Starch Modification by Biotechnology. , 2014, , 79-102.		5
61	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
62	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
63	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
64	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
65	Extent of genotypic variation for maize cell wall bioconversion traits across environments and among hybrid combinations. Euphytica, 2015, 206, 501-511.	0.6	3
66	Heterologous expression of two <i>Arabidopsis</i> starch dikinases in potato. Starch/Staerke, 2018, 70, 1600324.	1.1	3
67	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
68	Expression of an (Engineered) 4,6-Î±-Glucanotransferase in Potato Results in Changes in Starch Characteristics. PLoS ONE, 2016, 11, e0166981.	1.1	2
69	Investigating applied drought in <i>Miscanthus sinensis;</i> sensitivity, response mechanisms, and subsequent recovery. GCB Bioenergy, 0, , .	2.5	2
70	Detection and Analysis of Syntenic Quantitative Trait Loci Controlling Cell Wall Quality in Angiosperms. Frontiers in Plant Science, 2022, 13, 855093.	1.7	2