

# Dominique Loquã©

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

4,272  
citations

159585

30  
h-index

243625

44  
g-index

46  
all docs

46  
docs citations

46  
times ranked

5993  
citing authors

#	ARTICLE	IF	CITATIONS
1	A new approach to zipâ€lignin: 3,4â€dihydroxybenzoate is compatible with lignification. <i>New Phytologist</i> , 2022, 235, 234-246.	7.3	12
2	Expression of a bacterial 3-dehydroshikimate dehydratase (QsuB) reduces lignin and improves biomass saccharification efficiency in switchgrass ( <i>Panicum virgatum</i> L.). <i>BMC Plant Biology</i> , 2021, 21, 56.	3.6	14
3	Engineering Plant Synthetic Pathways for the Biosynthesis of Novel Antifungals. <i>ACS Central Science</i> , 2020, 6, 1394-1400.	11.3	22
4	Influence of hydrocracking and ionic liquid pretreatments on composition and properties of <i>Arabidopsis thaliana</i> wild type and CAD mutant lignins. <i>Renewable Energy</i> , 2020, 152, 1241-1249.	8.9	3
5	Design of orthogonal regulatory systems for modulating gene expression in plants. <i>Nature Chemical Biology</i> , 2020, 16, 857-865.	8.0	57
6	A screening method to identify efficient sgRNAs in <i>Arabidopsis</i> , used in conjunction with cell-specific lignin reduction. <i>Biotechnology for Biofuels</i> , 2019, 12, 130.	6.2	39
7	Production of muconic acid in plants. <i>Metabolic Engineering</i> , 2018, 46, 13-19.	7.0	19
8	A transgene design for enhancing oil content in <i>Arabidopsis</i> and <i>Camelina</i> seeds. <i>Biotechnology for Biofuels</i> , 2018, 11, 46.	6.2	23
9	Dynamic root exudate chemistry and microbial substrate preferences drive patterns in rhizosphere microbial community assembly. <i>Nature Microbiology</i> , 2018, 3, 470-480.	13.3	1,268
10	Overexpression of a rice BAHD acyltransferase gene in switchgrass ( <i>Panicum virgatum</i> L.) enhances saccharification. <i>BMC Biotechnology</i> , 2018, 18, 54.	3.3	38
11	Increased drought tolerance in plants engineered for low lignin and low xylan content. <i>Biotechnology for Biofuels</i> , 2018, 11, 195.	6.2	33
12	Gene stacking of multiple traits for high yield of fermentable sugars in plant biomass. <i>Biotechnology for Biofuels</i> , 2018, 11, 2.	6.2	38
13	Endoribonuclease-Based Two-Component Repressor Systems for Tight Gene Expression Control in Plants. <i>ACS Synthetic Biology</i> , 2017, 6, 806-816.	3.8	15
14	Lignin Valorization: Two Hybrid Biochemical Routes for the Conversion of Polymeric Lignin into Value-added Chemicals. <i>Scientific Reports</i> , 2017, 7, 8420.	3.3	110
15	SbCOMT (Bmr12) is involved in the biosynthesis of triclin-lignin in sorghum. <i>PLoS ONE</i> , 2017, 12, e0178160.	2.5	59
16	Expression of S-adenosylmethionine Hydrolase in Tissues Synthesizing Secondary Cell Walls Alters Specific Methylated Cell Wall Fractions and Improves Biomass Digestibility. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 58.	4.1	8
17	Biotechnology and synthetic biology approaches for metabolic engineering of bioenergy crops. <i>Plant Journal</i> , 2016, 87, 103-117.	5.7	44
18	Exploiting members of the BAHD acyltransferase family to synthesize multiple hydroxycinnamate and benzoate conjugates in yeast. <i>Microbial Cell Factories</i> , 2016, 15, 198.	4.0	32

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19	Exploiting the Substrate Promiscuity of Hydroxycinnamoyl-CoA:Shikimate Hydroxycinnamoyl Transferase to Reduce Lignin. <i>Plant and Cell Physiology</i> , 2016, 57, 568-579.	3.1	78
20	Standards for plant synthetic biology: a common syntax for exchange of <sc>DNA</sc> parts. <i>New Phytologist</i> , 2015, 208, 13-19.	7.3	263
21	Biochemical characterization of <i>Arabidopsis</i> APYRASE family reveals their roles in regulating endomembrane NDP/NMP homeostasis. <i>Biochemical Journal</i> , 2015, 472, 43-54.	3.7	18
22	Restricting lignin and enhancing sugar deposition in secondary cell walls enhances monomeric sugar release after low temperature ionic liquid pretreatment. <i>Biotechnology for Biofuels</i> , 2015, 8, 95.	6.2	9
23	Engineering of plant cell walls for enhanced biofuel production. <i>Current Opinion in Plant Biology</i> , 2015, 25, 151-161.	7.1	174
24	Expression of a bacterial 3- $\alpha$ -dehydroshikimate dehydratase reduces lignin content and improves biomass saccharification efficiency. <i>Plant Biotechnology Journal</i> , 2015, 13, 1241-1250.	8.3	90
25	Engineering temporal accumulation of a low recalcitrance polysaccharide leads to increased C6 sugar content in plant cell walls. <i>Plant Biotechnology Journal</i> , 2015, 13, 903-914.	8.3	37
26	Tight regulation of plant immune responses by combining promoter and suicide exon elements. <i>Nucleic Acids Research</i> , 2015, 43, 7152-7161.	14.5	11
27	Precursor-Directed Combinatorial Biosynthesis of Cinnamoyl, Dihydrocinnamoyl, and Benzoyl Anthranilates in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2015, 10, e0138972.	2.5	14
28	A gene stacking approach leads to engineered plants with highly increased galactan levels in <i>Arabidopsis</i> . <i>BMC Plant Biology</i> , 2014, 14, 344.	3.6	40
29	Lignin bioengineering. <i>Current Opinion in Biotechnology</i> , 2014, 26, 189-198.	6.6	126
30	The plant glycosyltransferase clone collection for functional genomics. <i>Plant Journal</i> , 2014, 79, 517-529.	5.7	67
31	Histochemical Staining of <i>Arabidopsis thaliana</i> Secondary Cell Wall Elements. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	137
32	Production of hydroxycinnamoyl anthranilates from glucose in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2013, 12, 62.	4.0	48
33	Engineering secondary cell wall deposition in plants. <i>Plant Biotechnology Journal</i> , 2013, 11, 325-335.	8.3	200
34	Visualization of plant cell wall lignification using fluorescence-tagged monolignols. <i>Plant Journal</i> , 2013, 76, 357-366.	5.7	70
35	Isolation and Proteomic Characterization of the <i>Arabidopsis</i> Golgi Defines Functional and Novel Components Involved in Plant Cell Wall Biosynthesis. <i>Plant Physiology</i> , 2012, 159, 12-26.	4.8	164
36	AtAPY1 and AtAPY2 Function as Golgi-Localized Nucleoside Diphosphatases in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2012, 53, 1913-1925.	3.1	30

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37	Engineering of plants with improved properties as biofuels feedstocks by vessel-specific complementation of xylan biosynthesis mutants. <i>Biotechnology for Biofuels</i> , 2012, 5, 84.	6.2	97
38	Biosynthesis and incorporation of side-chain-truncated lignin monomers to reduce lignin polymerization and enhance saccharification. <i>Plant Biotechnology Journal</i> , 2012, 10, 609-620.	8.3	140
39	Production of tranilast [N-(3,4-dimethoxycinnamoyl)-anthranilic acid] and its analogs in yeast <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 989-1000.	3.6	40
40	Advances in modifying lignin for enhanced biofuel production. <i>Current Opinion in Plant Biology</i> , 2010, 13, 312-319.	7.1	211
41	A membrane protein / signaling protein interaction network for Arabidopsis version AMPv2. <i>Frontiers in Physiology</i> , 2010, 1, 24.	2.8	131
42	AtAMT1;4, a Pollen-Specific High-Affinity Ammonium Transporter of the Plasma Membrane in Arabidopsis. <i>Plant and Cell Physiology</i> , 2009, 50, 13-25.	3.1	91
43	Next-generation biomass feedstocks for biofuel production. <i>Genome Biology</i> , 2008, 9, 242.	9.6	144