Udaya C Kalluri

List of Publications by Year
in descending order

48	2,084	257101 24	243296 44
papers	citations	h-index	g-index

53	53	53	3064
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genome-wide analysis of Aux/IAA and ARF gene families in Populus trichocarpa. BMC Plant Biology, 2007, 7, 59.	1.6	218
2	Involvement of auxin pathways in modulating root architecture during beneficial plantâ€“microorganism interactions. Plant, Cell and Environment, 2013, 36, 909-919.	2.8	192
3	Phytosequestration: Carbon Biosequestration by Plants and the Prospects of Genetic Engineering. BioScience, 2010, 60, 685-696.	2.2	149
4	The F-Box Gene Family Is Expanded in Herbaceous Annual Plants Relative to Woody Perennial Plants Â. Plant Physiology, 2008, 148, 1189-1200.	2.3	125
5	Genomics of cellulose biosynthesis in poplars. New Phytologist, 2004, 164, 53-61.	3.5	119
6	Discovery and annotation of small proteins using genomics, proteomics, and computational approaches. Genome Research, 2011, 21, 634-641.	2.4	105
7	A Structural Study of CESA1 Catalytic Domain of Arabidopsis Cellulose Synthesis Complex: Evidence for CESA Trimers. Plant Physiology, 2016, 170, 123-135.	2.3	104
8	Highly Efficient Isolation of Populus Mesophyll Protoplasts and Its Application in Transient Expression Assays. PLoS ONE, 2012, 7, e44908.	1.1	89
9	Chemical, ultrastructural and supramolecular analysis of tension wood in Populus tremula x alba as a model substrate for reduced recalcitrance. Energy and Environmental Science, 2011, 4, 4962.	15.6	61
10	Metabolic profiling reveals altered sugar and secondary metabolism in response to UGPase overexpression in Populus. BMC Plant Biology, 2014, 14, 265.	1.6	61
11	A 5-Enolpyruvylshikimate 3-Phosphate Synthase Functions as a Transcriptional Repressor in Populus. Plant Cell, 2018, 30, 1645-1660.	3.1	56
12	Challenges of the utilization of wood polymers: how can they be overcome?. Applied Microbiology and Biotechnology, 2011, 91, 1525-1536.	1.7	52
13	Shotgun proteome profile of Populus developing xylem. Proteomics, 2009, 9, 4871-4880.	1.3	47
14	Systems and synthetic biology approaches to alter plant cell walls and reduce biomass recalcitrance. Plant Biotechnology Journal, 2014, 12, 1207-1216.	4.1	46
15	Transgenic Poplar Designed for Biofuels. Trends in Plant Science, 2020, 25, 881-896.	4.3	45
16	Identification of candidate genes in Arabidopsis and Populus cell wall biosynthesis using text-mining, co-expression network analysis and comparative genomics. Plant Science, 2011, 181, 675-687.	1.7	44
17	Defining the Boundaries and Characterizing the Landscape of Functional Genome Expression in Vascular Tissues of Populus using Shotgun Proteomics. Journal of Proteome Research, 2012, 11, 449-460.	1.8	44
18	Poplar Genomics: State of the Science. Critical Reviews in Plant Sciences, 2009, 28, 285-308.	2.7	42

#	Article	IF	Citations
19	Differential expression patterns of two cellulose synthase genes are associated with primary and secondary cell wall development in aspen trees. Planta, 2004, 220, 47-55.	1.6	41
20	3D Chemical Image using TOFâ€SIMS Revealing the Biopolymer Component Spatial and Lateral Distributions in Biomass. Angewandte Chemie - International Edition, 2012, 51, 12005-12008.	7.2	36
21	Down-Regulation of KORRIGAN-Like Endo-Î²-1,4-Glucanase Genes Impacts Carbon Partitioning, Mycorrhizal Colonization and Biomass Production in Populus. Frontiers in Plant Science, 2016, 7, 1455.	1.7	32
22	A New Calmodulin-Binding Protein Expresses in the Context of Secondary Cell Wall Biosynthesis and Impacts Biomass Properties in Populus. Frontiers in Plant Science, 2018, 9, 1669.	1.7	31
23	Putting the Pieces Together: High-performance LC-MS/MS Provides Network-, Pathway-, and Protein-level Perspectives in Populus. Molecular and Cellular Proteomics, 2013, 12, 106-119.	2.5	26
24	Tension wood structure and morphology conducive for better enzymatic digestion. Biotechnology for Biofuels, 2018, 11, 44.	6.2	26
25	Bioinformatics-Based Identification of Candidate Genes from QTLs Associated with Cell Wall Traits in Populus. Bioenergy Research, 2010, 3, 172-182.	2.2	25
26	Efficiency of gene silencing in Arabidopsis: direct inverted repeats vs. transitive RNAi vectors. Plant Biotechnology Journal, 2007, 5, 615-626.	4.1	23
27	Isolation and characterization of a new, fullâ€length cellulose synthase cDNA, PtrCesA5 from developing xylem of aspen trees. Journal of Experimental Botany, 2003, 54, 2187-2188.	2.4	22
28	Characterization of cellulose structure of Populus plants modified in candidate cellulose biosynthesis genes. Biomass and Bioenergy, 2016, 94, 146-154.	2.9	22
29	Agronomic performance of Populus deltoides trees engineered for biofuel production. Biotechnology for Biofuels, 2017, 10, 253.	6.2	22
30	Bioenergy research: a new paradigm in multidisciplinary research. Journal of the Royal Society Interface, 2010, 7, 1391-1401.	1.5	21
31	Importance of suberin biopolymer in plant function, contributions to soil organic carbon and in the production of bio-derived energy and materials. Biotechnology for Biofuels, 2021, 14, 75.	6.2	19
32	Perspectives on the basic and applied aspects of crassulacean acid metabolism (CAM) research. Plant Science, 2018, 274, 394-401.	1.7	18
33	Cultivating the Bacterial Microbiota of Populus Roots. MSystems, 2021, 6, e0130620.	1.7	17
34	Modification of plant cell wall chemistry impacts metabolome and microbiome composition in Populus PdKOR1 RNAi plants. Plant and Soil, 2018, 429, 349-361.	1.8	16
35	Plant Biosystems Design Research Roadmap 1.0. Biodesign Research, 2020, 2020, .	0.8	16
36	The impact of biotechnological advances on the future of <scp>US</scp> bioenergy. Biofuels, Bioproducts and Biorefining, 2015, 9, 454-467.	1.9	11

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37	Bioenergy Underground: Challenges and opportunities for phenotyping roots and the microbiome for sustainable bioenergy crop production. The Plant Phenome Journal, 2022, 5, .	1.0	9
38	Determining the Syringyl/Guaiacyl Lignin Ratio in the Vessel and Fiber Cell Walls of Transgenic Populus Plants. Energy & Fuels, 2016, 30, 5716-5720.	2.5	8
39	Carbon Nanofiber Arrays: A Novel Tool for Microdelivery of Biomolecules to Plants. PLoS ONE, 2016, 11, e0153621.	1.1	7
40	Monitoring plant growth using high resolution micro-CT images. , 2011, , .		6
41	Plant Biosystems Design for a Carbon-Neutral Bioeconomy. Biodesign Research, 2020, 2020, .	0.8	5
42	Biological Parts for Plant Biodesign to Enhance Land-Based Carbon Dioxide Removal. Biodesign Research, 2021, 2021, .	0.8	5
43	Nanomechanics and Raman Spectroscopy of in Situ Native Carbohydrate Storage Granules for Enhancing Starch Quality and Lignocellulosic Biomass Production. ACS Omega, 2020, 5, 2594-2602.	1.6	4
44	Auxin Signaling and Response Mechanisms and Roles in Plant Growth and Development. , 2011, , 231-254.		3
45	Draft Genome Sequence of Larkinella sp. Strain BK230, Isolated from Populus deltoides Roots. Microbiology Resource Announcements, 2020, 9, .	0.3	2
46	Draft Genome Sequence of Tumebacillus sp. Strain BK434, Isolated from the Roots of Eastern Cottonwood. Microbiology Resource Announcements, 2020, 9, .	0.3	1
47	Structural Studies of Plant CESA Support Eighteen CESAs in the Plant CSC. Biophysical Journal, 2016, 110, 27a.	0.2	0
48	Molecular Remodeling in Populus PdKOR RNAi Roots Profiled Using LCâ€MS/MS Proteomics. Proteomics, 2020, 20, 2000067.	1.3	0