Olga Serra

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3198778/publications.pdf

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29	1,147	393982	500791
papers	citations	19	28
		h-index	g-index

31	31	31	972
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Genomic Approach to Suberin Biosynthesis and Cork Differentiation. Plant Physiology, 2007, 144, 419-431.	2.3	147
2	CYP86A33-Targeted Gene Silencing in Potato Tuber Alters Suberin Composition, Distorts Suberin Lamellae, and Impairs the Periderm's Water Barrier Function Â Â Â. Plant Physiology, 2009, 149, 1050-1060.	2.3	120
3	A feruloyl transferase involved in the biosynthesis of suberin and suberin-associated wax is required for maturation and sealing properties of potato periderm. Plant Journal, 2010, 62, 277-290.	2.8	120
4	Silencing of StKCS6 in potato periderm leads to reduced chain lengths of suberin and wax compounds and increased peridermal transpiration. Journal of Experimental Botany, 2009, 60, 697-707.	2.4	95
5	The potato suberin feruloyl transferase FHT which accumulates in the phellogen is induced by wounding and regulated by abscisic and salicylic acids. Journal of Experimental Botany, 2013, 64, 3225-3236.	2.4	66
6	Silencing of the potatoStNAC103gene enhances the accumulation of suberin polyester and associated wax in tuber skin. Journal of Experimental Botany, 2016, 67, 5415-5427.	2.4	56
7	Seasonal variation in transcript abundance in cork tissue analyzed by real time RT-PCR. Tree Physiology, 2008, 28, 743-751.	1.4	43
8	The making of suberin. New Phytologist, 2022, 235, 848-866.	3.5	42
9	Partial depolymerization of genetically modified potato tuber periderm reveals intermolecular linkages in suberin polyester. Phytochemistry, 2015, 117, 209-219.	1.4	40
10	A potato skin SSH library yields new candidate genes for suberin biosynthesis and periderm formation. Planta, 2011, 233, 933-945.	1.6	39
11	Comprehensive MS and Solid-State NMR Metabolomic Profiling Reveals Molecular Variations in Native Periderms from Four Solanum tuberosum Potato Cultivars. Journal of Agricultural and Food Chemistry, 2017, 65, 2258-2274.	2.4	35
12	A comparative transcriptomic approach to understanding the formation of cork. Plant Molecular Biology, 2018, 96, 103-118.	2.0	35
13	Potato native and wound periderms are differently affected by down-regulation of FHT, a suberin feruloyl transferase. Phytochemistry, 2018, 147, 30-48.	1.4	32
14	The Making of Plant Armor: The Periderm. Annual Review of Plant Biology, 2022, 73, 405-432.	8.6	30
15	Deconstructing a Plant Macromolecular Assembly: Chemical Architecture, Molecular Flexibility, And Mechanical Performance of Natural and Engineered Potato Suberins. Biomacromolecules, 2014, 15, 799-811.	2.6	26
16	Induced lignoâ€suberin vascular coating and tyramineâ€derived hydroxycinnamic acid amides restrict Ralstonia solanacearum colonization in resistant tomato. New Phytologist, 2022, 234, 1411-1429.	3.5	26
17	Mini-review: What nuclear magnetic resonance can tell us about protective tissues. Plant Science, 2012, 195, 120-124.	1.7	25
18	Unraveling ferulate role in suberin and periderm biology by reverse genetics. Plant Signaling and Behavior, 2010, 5, 953-958.	1.2	24

#	Article	IF	Citations
19	Solving the Jigsaw Puzzle of Wound-Healing Potato Cultivars: Metabolite Profiling and Antioxidant Activity of Polar Extracts. Journal of Agricultural and Food Chemistry, 2014, 62, 7963-7975.	2.4	24
20	Defensive Armor of Potato Tubers: Nonpolar Metabolite Profiling, Antioxidant Assessment, and Solid-State NMR Compositional Analysis of Suberin-Enriched Wound-Healing Tissues. Journal of Agricultural and Food Chemistry, 2015, 63, 6810-6822.	2.4	20
21	The Identification and Quantification of Suberin Monomers of Root and Tuber Periderm from Potato (Solanum tuberosum) as Fatty Acyltert-Butyldimethylsilyl Derivatives. Phytochemical Analysis, 2016, 27, 326-335.	1.2	20
22	Polymer inclusion membrane to access Zn speciation: Comparison with root uptake. Science of the Total Environment, 2018, 622-623, 316-324.	3.9	20
23	Oxidosqualene cyclases involved in the biosynthesis of triterpenoids in Quercus suber cork. Scientific Reports, 2020, 10, 8011.	1.6	19
24	Silencing against the conserved NAC domain of the potato StNAC103 reveals new NAC candidates to repress the suberin associated waxes in phellem. Plant Science, 2020, 291, 110360.	1.7	17
25	Transcriptomic analysis of cork during seasonal growth highlights regulatory and developmental processes from phellogen to phellem formation. Scientific Reports, 2021, 11, 12053.	1.6	13
26	Agrobacterium tumefaciens and Agrobacterium rhizogenes-Mediated Transformation of Potato and the Promoter Activity of a Suberin Gene by GUS Staining. Journal of Visualized Experiments, 2019, , .	0.2	7
27	Silencing of StRIK in potato suggests a role in periderm related to RNA processing and stress. BMC Plant Biology, 2021, 21, 409.	1.6	3
28	A chemical window into the impact of RNAi silencing of the StNAC103 gene in potato tuber periderms: Soluble metabolites, suberized cell walls, and antibacterial defense. Phytochemistry, 2021, 190, 112885.	1.4	1
29	Gene Downregulation in Potato Roots Using Agrobacterium rhizogenes-Mediated Transformation. Methods in Molecular Biology, 2021, 2354, 353-372.	0.4	0