

Arnaud Lanoue

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5926074/publications.pdf>

Version: 2024-02-01

73
papers

2,589
citations

218677

26
h-index

206112

48
g-index

75
all docs

75
docs citations

75
times ranked

3206
citing authors

#	ARTICLE	IF	CITATIONS
1	Root biomass and exudates link plant diversity with soil bacterial and fungal biomass. <i>Scientific Reports</i> , 2017, 7, 44641.	3.3	309
2	<i>De novo</i> biosynthesis of defense root exudates in response to <i>Fusarium</i> attack in barley. <i>New Phytologist</i> , 2010, 185, 577-588.	7.3	206
3	Strictosidine activation in Apocynaceae: towards a "nuclear time bomb"? <i>BMC Plant Biology</i> , 2010, 10, 182.	3.6	129
4	A three enzyme system to generate the <i>Strychnos</i> alkaloid scaffold from a central biosynthetic intermediate. <i>Nature Communications</i> , 2017, 8, 316.	12.8	117
5	Plants Respond to Pathogen Infection by Enhancing the Antifungal Gene Expression of Root-Associated Bacteria. <i>Molecular Plant-Microbe Interactions</i> , 2011, 24, 352-358.	2.6	109
6	Optimization of the transient transformation of <i>Catharanthus roseus</i> cells by particle bombardment and its application to the subcellular localization of hydroxymethylbutenyl 4-diphosphate synthase and geraniol 10-hydroxylase. <i>Plant Cell Reports</i> , 2009, 28, 1215-1234.	5.6	105
7	A Pair of Tabersonine 16-Hydroxylases Initiates the Synthesis of Vindoline in an Organ-Dependent Manner in <i>Catharanthus roseus</i> . <i>Plant Physiology</i> , 2013, 163, 1792-1803.	4.8	97
8	Phytochemical genomics of the Madagascar periwinkle: Unravelling the last twists of the alkaloid engine. <i>Phytochemistry</i> , 2015, 113, 9-23.	2.9	92
9	Association between border cell responses and localized root infection by pathogenic <i>Aphanomyces euteiches</i> . <i>Annals of Botany</i> , 2011, 108, 459-469.	2.9	69
10	Antifungal Activity of Resveratrol Derivatives against <i>Candida</i> Species. <i>Journal of Natural Products</i> , 2014, 77, 1658-1662.	3.0	67
11	Characterization of a spermidine hydroxycinnamoyltransferase in <i>Malus domestica</i> highlights the evolutionary conservation of trihydroxycinnamoyl spermidines in pollen coat of core Eudicotyledons. <i>Journal of Experimental Botany</i> , 2015, 66, 7271-7285.	4.8	62
12	<i>Candida guilliermondii</i> : biotechnological applications, perspectives for biological control, emerging clinical importance and recent advances in genetics. <i>Current Genetics</i> , 2013, 59, 73-90.	1.7	61
13	Biosynthetic Origin of <i>E</i> -Resveratrol Accumulation in Grape Canes during Postharvest Storage. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 1631-1638.	5.2	59
14	The subcellular organization of strictosidine biosynthesis in <i>Catharanthus roseus</i> epidermis highlights several transmembrane translocators of intermediate metabolites. <i>FEBS Journal</i> , 2011, 278, 749-763.	4.7	58
15	Characterization of a second secologanin synthase isoform producing both secologanin and secoxyloganin allows enhanced <i>de novo</i> assembly of a <i>Catharanthus roseus</i> transcriptome. <i>BMC Genomics</i> , 2015, 16, 619.	2.8	54
16	A <i>BAHD</i> acyltransferase catalyzing <i>O</i> -acetylation of tabersonine derivatives in roots of <i>Catharanthus roseus</i> enables combinatorial synthesis of monoterpene indole alkaloids. <i>Plant Journal</i> , 2018, 94, 469-484.	5.7	46
17	Class II Cytochrome P450 Reductase Governs the Biosynthesis of Alkaloids. <i>Plant Physiology</i> , 2016, 172, 1563-1577.	4.8	44
18	<i>Pseudomonas fluorescens</i> CHA0 maintains carbon delivery to <i>Fusarium graminearum</i> -infected roots and prevents reduction in biomass of barley shoots through systemic interactions. <i>Journal of Experimental Botany</i> , 2011, 62, 4337-4344.	4.8	42

#	ARTICLE	IF	CITATIONS
19	Field-Based Metabolomics of <i>Vitis vinifera</i> L. Stems Provides New Insights for Genotype Discrimination and Polyphenol Metabolism Structuring. <i>Frontiers in Plant Science</i> , 2018, 9, 798.	3.6	41
20	Induced root-secreted phenolic compounds as a belowground plant defense. <i>Plant Signaling and Behavior</i> , 2010, 5, 1037-1038.	2.4	40
21	Mechanical stress rapidly induces E-resveratrol and E-piceatannol biosynthesis in grape canes stored as a freshly-pruned byproduct. <i>Food Chemistry</i> , 2018, 240, 1022-1027.	8.2	40
22	Folivory elicits a strong defense reaction in <i>Catharanthus roseus</i> : metabolomic and transcriptomic analyses reveal distinct local and systemic responses. <i>Scientific Reports</i> , 2017, 7, 40453.	3.3	39
23	Characterization and subcellular localization of geranylgeranyl diphosphate synthase from <i>Catharanthus roseus</i> . <i>Molecular Biology Reports</i> , 2012, 39, 3235-3243.	2.3	34
24	Two Tabersonine 6,7-Epoxidases Initiate Lochnericine-Derived Alkaloid Biosynthesis in <i>Catharanthus roseus</i> . <i>Plant Physiology</i> , 2018, 177, 1473-1486.	4.8	34
25	CHASE-Containing Histidine Kinase Receptors in Apple Tree: From a Common Receptor Structure to Divergent Cytokinin Binding Properties and Specific Functions. <i>Frontiers in Plant Science</i> , 2017, 8, 1614.	3.6	27
26	Exogenous calcium deflects grape berry metabolism towards the production of more stilbenoids and less anthocyanins. <i>Food Chemistry</i> , 2020, 313, 126123.	8.2	27
27	Grape Cane Extracts as Multifunctional Rejuvenating Cosmetic Ingredient: Evaluation of Sirtuin Activity, Tyrosinase Inhibition and Bioavailability Potential. <i>Molecules</i> , 2020, 25, 2203.	3.8	27
28	Composition and Tissue-Specific Distribution of Stilbenoids in Grape Canes Are Affected by Downy Mildew Pressure in the Vineyard. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 8472-8477.	5.2	26
29	Vineyard evaluation of stilbenoid-rich grape cane extracts against downy mildew: a large-scale study. <i>Pest Management Science</i> , 2019, 75, 1252-1257.	3.4	25
30	Enhanced bioproduction of anticancer precursor vindoline by yeast cell factories. <i>Microbial Biotechnology</i> , 2021, 14, 2693-2699.	4.2	24
31	Kinetic Study of Littorine Rearrangement in <i>Datura innoxia</i> Hairy Roots by ¹³ C NMR Spectroscopy. <i>Journal of Natural Products</i> , 2002, 65, 1131-1135.	3.0	22
32	Deciphering the Evolution, Cell Biology and Regulation of Monoterpene Indole Alkaloids. <i>Advances in Botanical Research</i> , 2013, 68, 73-109.	1.1	22
33	Plant defence against nematodes is not mediated by changes in the soil microbial community. <i>Functional Ecology</i> , 2009, 23, 488-495.	3.6	19
34	Illuminating Fungal Infections with Bioluminescence. <i>PLoS Pathogens</i> , 2014, 10, e1004179.	4.7	19
35	A standardized toolkit for genetic engineering of CTG clade yeasts. <i>Journal of Microbiological Methods</i> , 2018, 144, 152-156.	1.6	19
36	Cellular and Subcellular Compartmentation of the 2C-Methyl-D-Erythritol 4-Phosphate Pathway in the Madagascar Periwinkle. <i>Plants</i> , 2020, 9, 462.	3.5	19

#	ARTICLE	IF	CITATIONS
37	Alternative splicing creates a pseudo-strictosidine β -glucosidase modulating alkaloid synthesis in <i>Catharanthus roseus</i> . <i>Plant Physiology</i> , 2021, 185, 836-856.	4.8	19
38	Molecular cloning and functional characterization of <i>Catharanthus roseus</i> hydroxymethylbutenyl 4-diphosphate synthase gene promoter from the methyl erythritol phosphate pathway. <i>Molecular Biology Reports</i> , 2012, 39, 5433-5447.	2.3	17
39	Unravelling the architecture and dynamics of tropane alkaloid biosynthesis pathways using metabolite correlation networks. <i>Phytochemistry</i> , 2015, 116, 94-103.	2.9	17
40	Semi-Targeted Metabolomics to Validate Biomarkers of Grape Downy Mildew Infection Under Field Conditions. <i>Plants</i> , 2020, 9, 1008.	3.5	17
41	Virus-induced gene silencing in <i>Catharanthus roseus</i> by biolistic inoculation of tobacco rattle virus vectors. <i>Plant Biology</i> , 2015, 17, 1242-1246.	3.8	16
42	Virus-induced gene silencing in <i>Rauwolfia</i> species. <i>Protoplasma</i> , 2017, 254, 1813-1818.	2.1	15
43	Virus-induced gene silencing of the two squalene synthase isoforms of apple tree (<i>Malus domestica</i>) Tj ETQq1 1 0.784314 rgBT 45-60.	3.2	15
44	Uncyclized xanthommatin is a key ommochrome intermediate in invertebrate coloration. <i>Insect Biochemistry and Molecular Biology</i> , 2020, 124, 103403.	2.7	15
45	Occurrence of circadian rhythms in hairy root cultures grown under controlled conditions. <i>Biotechnology and Bioengineering</i> , 2004, 88, 722-729.	3.3	14
46	ZCT1 and ZCT2 transcription factors repress the activity of a gene promoter from the methyl erythritol phosphate pathway in Madagascar periwinkle cells. <i>Journal of Plant Physiology</i> , 2014, 171, 1510-1513.	3.5	14
47	Calcium and methyl jasmonate cross-talk in the secondary metabolism of grape cells. <i>Plant Physiology and Biochemistry</i> , 2021, 165, 228-238.	5.8	14
48	Prequels to Synthetic Biology. <i>Methods in Enzymology</i> , 2016, 576, 167-206.	1.0	13
49	Norlittorine and norhyoscyamine identified as products of littorine and hyoscyamine metabolism by ^{13}C -labeling in <i>Datura innoxia</i> hairy roots. <i>Phytochemistry</i> , 2012, 74, 105-114.	2.9	12
50	A BAHD neofunctionalization promotes tetrahydrocinnamoyl spermine accumulation in the pollen coats of the Asteraceae family. <i>Journal of Experimental Botany</i> , 2018, 69, 5355-5371.	4.8	12
51	Identifying Genes Involved in Alkaloid Biosynthesis in <i>Vinca minor</i> through Transcriptomics and Gene Co-Expression Analysis. <i>Biomolecules</i> , 2020, 10, 1595.	4.0	12
52	A new series of vectors for constitutive, inducible or repressible gene expression in <i>Candida guilliermondii</i> . <i>Journal of Biotechnology</i> , 2014, 180, 37-42.	3.8	10
53	Genome-wide identification and biochemical characterization of the UGT88F subfamily in <i>Malus x domestica</i> Borkh. <i>Phytochemistry</i> , 2019, 157, 135-144.	2.9	10
54	UPLC-HRMS Analysis Revealed the Differential Accumulation of Antioxidant and Anti-Aging Lignans and Neolignans in In Vitro Cultures of <i>Linum usitatissimum</i> L. <i>Frontiers in Plant Science</i> , 2020, 11, 508658.	3.6	10

#	ARTICLE	IF	CITATIONS
55	Optimization of Tabersonine Methoxylation to Increase Vindoline Precursor Synthesis in Yeast Cell Factories. <i>Molecules</i> , 2021, 26, 3596.	3.8	10
56	Catabolism of lysosome-related organelles in color-changing spiders supports intracellular turnover of pigments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	10
57	Optimized genetic transformation of <i>Zanthoxylum zanthoxyloides</i> by <i>Agrobacterium rhizogenes</i> and the production of chelerythrine and skimmiamine in hairy root cultures. <i>Engineering in Life Sciences</i> , 2014, 14, 95-99.	3.6	9
58	In vitro propagation of <i>Zanthoxylum zanthoxyloides</i> Lam., an endangered African medicinal plant. <i>Acta Botanica Gallica</i> , 2011, 158, 47-55.	0.9	8
59	Disrupting the methionine biosynthetic pathway in <i>Candida guilliermondii</i> : characterization of the <i>MET2</i> gene as counterselectable marker. <i>Yeast</i> , 2014, 31, 243-251.	1.7	7
60	Exogenous Calcium Delays Grape Berry Maturation in the White cv. Loureiro While Increasing Fruit Firmness and Flavonol Content. <i>Frontiers in Plant Science</i> , 2021, 12, 742887.	3.6	7
61	Exploiting Spermidine <i>N</i> -Hydroxycinnamoyltransferase Diversity and Substrate Promiscuity to Produce Various Trihydroxycinnamoyl Spermidines and Analogues in Engineered Yeast. <i>ACS Synthetic Biology</i> , 2021, 10, 286-296.	3.8	6
62	Postharvest Treatment of Wood Biomass from a Large Collection of European Grape Varieties: Impact on the Selection of Polyphenol-Rich Byproducts. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3509-3517.	6.7	6
63	Scarlet Flax <i>Linum grandiflorum</i> (L.) In Vitro Cultures as a New Source of Antioxidant and Anti-Inflammatory Lignans. <i>Molecules</i> , 2021, 26, 4511.	3.8	6
64	Faba bean root exudates alter pea root colonization by the oomycete <i>Aphanomyces euteiches</i> at early stages of infection. <i>Plant Science</i> , 2021, 312, 111032.	3.6	6
65	Stilbenoid-Enriched Grape Cane Extracts for the Biocontrol of Grapevine Diseases. <i>Progress in Biological Control</i> , 2020, , 215-239.	0.5	6
66	Impact of Deficit Irrigation on Grapevine cv. "Touriga Nacional" during Three Seasons in Douro Region: An Agronomical and Metabolomics Approach. <i>Plants</i> , 2022, 11, 732.	3.5	6
67	Identifying Major Drivers of Antioxidant Activities in Complex Polyphenol Mixtures from Grape Canes. <i>Molecules</i> , 2022, 27, 4029.	3.8	6
68	An additional <i>Meyerozyma guilliermondii</i> IMH3 gene confers mycophenolic acid resistance in fungal CTG clade species. <i>FEMS Yeast Research</i> , 2016, 16, fow078.	2.3	5
69	Vacuole-Targeted Proteins: Ins and Outs of Subcellular Localization Studies. <i>Methods in Molecular Biology</i> , 2018, 1789, 33-54.	0.9	4
70	Cassia sieberiana root bark used in traditional medicine in Togo: Anthelmintic property against <i>Haemonchus contortus</i> and tannins composition. <i>South African Journal of Botany</i> , 2022, 151, 549-558.	2.5	3
71	A Biolistic-Mediated Virus-Induced Gene Silencing in Apocynaceae to Map Biosynthetic Pathways of Alkaloids. <i>Methods in Molecular Biology</i> , 2020, 2172, 93-110.	0.9	1
72	Abscisic Acid and Chitosan Modulate Polyphenol Metabolism and Berry Qualities in the Domestic White-Colored Cultivar Savvatiano. <i>Plants</i> , 2022, 11, 1648.	3.5	1

#	ARTICLE	IF	CITATIONS
73	Tonoplast and Peroxisome Targeting of δ^3 -tocopherol N-methyltransferase Homologs Involved in the Synthesis of Monoterpene Indole Alkaloids. <i>Plant and Cell Physiology</i> , 2021, , .	3.1	0