

Arnaud Lanoue

List of Publications by Year in descending order

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218677

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#	ARTICLE	IF	CITATIONS
1	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
2	Identifying Major Drivers of Antioxidant Activities in Complex Polyphenol Mixtures from Grape Canes. <i>Molecules</i> , 2022, 27, 4029.	3.8	6
3	Abcisic Acid and Chitosan Modulate Polyphenol Metabolism and Berry Qualities in the Domestic White-Colored Cultivar Savvatio. <i>Plants</i> , 2022, 11, 1648.	3.5	1
4	Cassia sieberiana root bark used in traditional medicine in Togo: Anthelmintic property against Haemonchus contortus and tannins composition. <i>South African Journal of Botany</i> , 2022, 151, 549-558.	2.5	3
5	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
6	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
7	Optimization of Tabersonine Methoxylation to Increase Vindoline Precursor Synthesis in Yeast Cell Factories. <i>Molecules</i> , 2021, 26, 3596.	3.8	10
8	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
9	Enhanced bioproduction of anticancer precursor vindoline by yeast cell factories. <i>Microbial Biotechnology</i> , 2021, 14, 2693-2699.	4.2	24
10	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
11	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
12	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
13	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
14	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
15	Tonoplast and Peroxisome Targeting of β -tocopherol N-methyltransferase Homologs Involved in the Synthesis of Monoterpene Indole Alkaloids. <i>Plant and Cell Physiology</i> , 2021, , .	3.1	0
16	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
17	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
18	Semi-Targeted Metabolomics to Validate Biomarkers of Grape Downy Mildew Infection Under Field Conditions. <i>Plants</i> , 2020, 9, 1008.	3.5	17

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19	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
20	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
21	Uncyclized xanthommatin is a key ommochrome intermediate in invertebrate coloration. <i>Insect Biochemistry and Molecular Biology</i> , 2020, 124, 103403.	2.7	15
22	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
23	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
24	Stilbenoid-Enriched Grape Cane Extracts for the Biocontrol of Grapevine Diseases. <i>Progress in Biological Control</i> , 2020, , 215-239.	0.5	6
25	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
26	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
27	A BAHD acyltransferase catalyzing 19 <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
28	A standardized toolkit for genetic engineering of CTG clade yeasts. <i>Journal of Microbiological Methods</i> , 2018, 144, 152-156.	1.6	19
29	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
30	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
31	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
32	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
33	Vacuole-Targeted Proteins: Ins and Outs of Subcellular Localization Studies. <i>Methods in Molecular Biology</i> , 2018, 1789, 33-54.	0.9	4
34	Virus-induced gene silencing in <i>Rauwolfia</i> species. <i>Protoplasma</i> , 2017, 254, 1813-1818.	2.1	15
35	Root biomass and exudates link plant diversity with soil bacterial and fungal biomass. <i>Scientific Reports</i> , 2017, 7, 44641.	3.3	309
36	Virus-induced gene silencing of the two squalene synthase isoforms of apple tree (<i>Malus domestica</i>) Tj ETQq0 0 0 rgBT /Overlock 145-60.	3.2	15

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37	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
38	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
39	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
40	Class II Cytochrome P450 Reductase Governs the Biosynthesis of Alkaloids. <i>Plant Physiology</i> , 2016, 172, 1563-1577.	4.8	44
41	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
42	Prequels to Synthetic Biology. <i>Methods in Enzymology</i> , 2016, 576, 167-206.	1.0	13
43	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
44	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
45	Unravelling the architecture and dynamics of tropane alkaloid biosynthesis pathways using metabolite correlation networks. <i>Phytochemistry</i> , 2015, 116, 94-103.	2.9	17
46	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
47	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
48	Characterization of a second secologanin synthase isoform producing both secologanin and secoxyloganin allows enhanced de novo assembly of a <i>Catharanthus roseus</i> transcriptome. <i>BMC Genomics</i> , 2015, 16, 619.	2.8	54
49	Phytochemical genomics of the Madagascar periwinkle: Unravelling the last twists of the alkaloid engine. <i>Phytochemistry</i> , 2015, 113, 9-23.	2.9	92
50	Illuminating Fungal Infections with Bioluminescence. <i>PLoS Pathogens</i> , 2014, 10, e1004179.	4.7	19
51	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
52	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
53	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
54	Antifungal Activity of Resveratrol Derivatives against <i>Candida</i> Species. <i>Journal of Natural Products</i> , 2014, 77, 1658-1662.	3.0	67

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55	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
56	Deciphering the Evolution, Cell Biology and Regulation of Monoterpene Indole Alkaloids. <i>Advances in Botanical Research</i> , 2013, 68, 73-109.	1.1	22
57	<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
58	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
59	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
60	Norlitorine and norhyoscyamine identified as products of litorine and hyoscyamine metabolism by ¹³ C-labeling in <i>Datura innoxia</i> hairy roots. <i>Phytochemistry</i> , 2012, 74, 105-114.	2.9	12
61	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
62	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
63	The subcellular organization of strictosidine biosynthesis in <i>Catharanthus roseus</i> epidermis highlights several trans- <i>tonoplast</i> translocations of intermediate metabolites. <i>FEBS Journal</i> , 2011, 278, 749-763.	4.7	58
64	<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
65	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
66	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
67	Strictosidine activation in Apocynaceae: towards a "nuclear time bomb"? <i>BMC Plant Biology</i> , 2010, 10, 182.	3.6	129
68	<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
69	Induced root-secreted phenolic compounds as a belowground plant defense. <i>Plant Signaling and Behavior</i> , 2010, 5, 1037-1038.	2.4	40
70	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
71	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
72	Occurrence of circadian rhythms in hairy root cultures grown under controlled conditions. <i>Biotechnology and Bioengineering</i> , 2004, 88, 722-729.	3.3	14

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73	Kinetic Study of Littorine Rearrangement in Daturainnoxia Hairy Roots by ^{13}C NMR Spectroscopy. Journal of Natural Products, 2002, 65, 1131-1135.	3.0	22