

Lorena Almagro

List of Publications by Year in descending order

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55
papers

2,359
citations

304368

22
h-index

214527

47
g-index

55
all docs

55
docs citations

55
times ranked

3233
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential Response of Phenol Metabolism Associated with Antioxidative Network in Elicited Grapevine Suspension Cultured Cells under Saline Conditions. <i>Antioxidants</i> , 2022, 11, 388.	2.2	4
2	Phenylpropanoids in <i>Silybum marianum</i> cultures treated with cyclodextrins coated with magnetic nanoparticles. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 2393-2401.	1.7	2
3	Biotechnological production of β^2 -carotene using plant in vitro cultures. <i>Planta</i> , 2022, 256, .	1.6	5
4	Recent trends in the biotechnological production of tocopherols using in vitro cultures. <i>Phytochemistry Reviews</i> , 2021, 20, 1193-1207.	3.1	4
5	Gibberellin reverses the negative effect of paclobutrazol but not of chlorocholine chloride on the expression of SGs/GAs biosynthesis-related genes and increases the levels of relevant metabolites in <i>Stevia rebaudiana</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 146, 171-184.	1.2	6
6	Improved biotechnological production of paclitaxel in <i>Taxus media</i> cell cultures by the combined action of coronatine and calix[8]arenes. <i>Plant Physiology and Biochemistry</i> , 2021, 163, 68-75.	2.8	25
7	Transfecting <i>Taxus media</i> Protoplasts to Study Transcription Factors BIS2 and TSAR2 as Activators of Taxane-Related Genes. <i>Plant and Cell Physiology</i> , 2020, 61, 576-583.	1.5	7
8	Alterations in the silymarin metabolism in transgenic <i>Silybum marianum</i> cultured cells by the heterologous expression of the <i>Arabidopsis thaliana</i> V-myb myeloblastosis viral oncogene homolog transcription factor MYB12 and <i>Cicer arietinum</i> chalcone synthase. <i>Industrial Crops and Products</i> , 2020, 155, 112794.	2.5	3
9	A Novel Hydroxylation Step in the Taxane Biosynthetic Pathway: A New Approach to Paclitaxel Production by Synthetic Biology. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 410.	2.0	30
10	Use of cyclodextrins to improve the production of plant bioactive compounds. <i>Phytochemistry Reviews</i> , 2020, 19, 1061-1080.	3.1	16
11	Enhanced bioactive compound production in broccoli cells due to coronatine and methyl jasmonate is linked to antioxidative metabolism. <i>Journal of Plant Physiology</i> , 2020, 248, 153136.	1.6	15
12	A Smart Strategy to Improve t-Resveratrol Production in Grapevine Cells Treated with Cyclodextrin Polymers Coated with Magnetic Nanoparticles. <i>Polymers</i> , 2020, 12, 991.	2.0	10
13	Non-enzymatic screen-printed sensor based on PtNPs@polyazure A for the real-time tracking of the H ₂ O ₂ secreted from living plant cells. <i>Bioelectrochemistry</i> , 2020, 134, 107526.	2.4	17
14	Carrot hairy roots: factories for secondary metabolite production. <i>Journal of Experimental Botany</i> , 2020, 71, 6861-6864.	2.4	12
15	Effect of diflufenican on total carotenoid and phytoene production in carrot suspension-cultured cells. <i>Planta</i> , 2019, 249, 113-122.	1.6	8
16	Critical parameters on which the production of trans-resveratrol in <i>Vitis vinifera</i> cv Monastrell cell cultures depends. <i>Plant Cell, Tissue and Organ Culture</i> , 2019, 138, 395-398.	1.2	5
17	Production and localization of hydrogen peroxide and nitric oxide in grapevine cells elicited with cyclodextrins and methyl jasmonate. <i>Journal of Plant Physiology</i> , 2019, 237, 80-86.	1.6	9
18	Increased Glucosinolate Production in <i>Brassica oleracea</i> var. <i>italica</i> Cell Cultures Due to Coronatine Activated Genes Involved in Glucosinolate Biosynthesis. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 102-111.	2.4	7

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19	Changes in the secretome of <i>Vitis vinifera</i> cv. Monastrell cell cultures treated with cyclodextrins and methyl jasmonate. <i>Plant Physiology and Biochemistry</i> , 2019, 135, 520-527.	2.8	4
20	Bioactivity and bioavailability of phytoene and strategies to improve its production. <i>Phytochemistry Reviews</i> , 2019, 18, 359-376.	3.1	12
21	Effect of terbinafine on the biosynthetic pathway of isoprenoid compounds in carrot suspension cultured cells. <i>Plant Cell Reports</i> , 2018, 37, 1011-1019.	2.8	6
22	Recent trends and comprehensive appraisal for the biotechnological production of trans-resveratrol and its derivatives. <i>Phytochemistry Reviews</i> , 2018, 17, 491-508.	3.1	17
23	Perfluorodecalins and Hexenol as Inducers of Secondary Metabolism in <i>Taxus media</i> and <i>Vitis vinifera</i> Cell Cultures. <i>Frontiers in Plant Science</i> , 2018, 9, 335.	1.7	20
24	Production of fatty acid methyl esters and other bioactive compounds in elicited cultures of the fungus <i>Mucor circinelloides</i> . <i>Mycological Progress</i> , 2017, 16, 507-512.	0.5	3
25	A new strategy to enhance the biosynthesis of trans-resveratrol by overexpressing stilbene synthase gene in elicited <i>Vitis vinifera</i> cell cultures. <i>Plant Physiology and Biochemistry</i> , 2017, 113, 141-148.	2.8	30
26	Biosynthesis and bioactivity of glucosinolates and their production in plant in vitro cultures. <i>Planta</i> , 2017, 246, 19-32.	1.6	56
27	Cyclodextrins increase phytosterol and tocopherol levels in suspension cultured cells obtained from mung beans and safflower. <i>Biotechnology Progress</i> , 2017, 33, 1662-1665.	1.3	8
28	Bioactivity of Phytosterols and Their Production in Plant in Vitro Cultures. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 7049-7058.	2.4	79
29	A new regulatory mechanism controlling carotenogenesis in the fungus <i>Mucor circinelloides</i> as a target to generate β -carotene over-producing strains by genetic engineering. <i>Microbial Cell Factories</i> , 2016, 15, 99.	1.9	33
30	Enhanced accumulation of phytosterols and phenolic compounds in cyclodextrin-elicited cell suspension culture of <i>Daucus carota</i> . <i>Plant Science</i> , 2016, 250, 154-164.	1.7	22
31	New strategies for the use of <i>Linum usitatissimum</i> cell factories for the production of bioactive compounds. <i>Plant Physiology and Biochemistry</i> , 2016, 99, 73-78.	2.8	20
32	Indole Alkaloids from <i>Catharanthus roseus</i> : Bioproduction and Their Effect on Human Health. <i>Molecules</i> , 2015, 20, 2973-3000.	1.7	187
33	Enhanced extracellular production of trans-resveratrol in <i>Vitis vinifera</i> suspension cultured cells by using cyclodextrins and coronatine. <i>Plant Physiology and Biochemistry</i> , 2015, 97, 361-367.	2.8	49
34	Induction of extracellular defense-related proteins in suspension cultured-cells of <i>Daucus carota</i> elicited with cyclodextrins and methyl jasmonate. <i>Plant Physiology and Biochemistry</i> , 2014, 77, 133-139.	2.8	12
35	Combinatorial biosynthesis of sapogenins and saponins in <i>Saccharomyces cerevisiae</i> using a C-16 α hydroxylase from <i>Bupleurum falcatum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1634-1639.	3.3	173
36	Synergistic and additive influence of cyclodextrins and methyl jasmonate on the expression of the terpenoid indole alkaloid pathway genes and metabolites in <i>Catharanthus roseus</i> cell cultures. <i>Plant Cell, Tissue and Organ Culture</i> , 2014, 119, 543-551.	1.2	43

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37	Dissecting the Transcriptional Response to Elicitors in <i>Vitis vinifera</i> Cells. PLoS ONE, 2014, 9, e109777.	1.1	56
38	Suspension-Cultured Plant Cells as a Tool to Analyze the Extracellular Proteome. Methods in Molecular Biology, 2014, 1072, 407-433.	0.4	0
39	Biotechnological approaches to enhance the biosynthesis of ginkgolides and bilobalide in <i>Ginkgo biloba</i> . Phytochemistry Reviews, 2013, 12, 191-205.	3.1	46
40	Induction of trans-resveratrol and extracellular pathogenesis-related proteins in elicited suspension cultured cells of <i>Vitis vinifera</i> cv Monastrell. Journal of Plant Physiology, 2013, 170, 258-264.	1.6	35
41	Synergistic and cytotoxic action of indole alkaloids produced from elicited cell cultures of <i>Catharanthus roseus</i> . Pharmaceutical Biology, 2013, 51, 304-310.	1.3	31
42	Bioproduction of Terpenoid Indole Alkaloids from <i>Catharanthus roseus</i> Cell Cultures. , 2013, , 85-117.		3
43	Bioproduction of trans-Resveratrol from Grapevine Cell Cultures. , 2013, , 1683-1713.		21
44	Early signaling events in grapevine cells elicited with cyclodextrins and methyl jasmonate. Plant Physiology and Biochemistry, 2013, 62, 107-110.	2.8	26
45	Cytotoxic Effect of Natural trans-Resveratrol Obtained from Elicited <i>Vitis vinifera</i> Cell Cultures on Three Cancer Cell Lines. Plant Foods for Human Nutrition, 2012, 67, 422-429.	1.4	18
46	Enhancement of phytosterols, taraxasterol and induction of extracellular pathogenesis-related proteins in cell cultures of <i>Solanum lycopersicum</i> cv Micro-Tom elicited with cyclodextrins and methyl jasmonate. Journal of Plant Physiology, 2012, 169, 1050-1058.	1.6	37
47	Early signaling network in tobacco cells elicited with methyl jasmonate and cyclodextrins. Plant Physiology and Biochemistry, 2012, 51, 1-9.	2.8	23
48	Enhanced extracellular production of trans-resveratrol in <i>Vitis vinifera</i> suspension cultured cells by using cyclodextrins and methyljasmonate. Plant Cell Reports, 2012, 31, 81-89.	2.8	109
49	Effect of UV Light on Secondary Metabolite Biosynthesis in Plant Cell Cultures Elicited with Cyclodextrins and Methyl Jasmonate. , 2011, , .		7
50	New method to enhance ajmalicine production in <i>Catharanthus roseus</i> cell cultures based on the use of cyclodextrins. Biotechnology Letters, 2011, 33, 381-385.	1.1	50
51	Methyl jasmonate induces extracellular pathogenesis-related proteins in cell cultures of <i>Capsicum chinense</i> . Plant Signaling and Behavior, 2011, 6, 440-442.	1.2	14
52	Kinetic Characterization of a Basic Peroxidase from Garlic (<i>Allium sativum</i> L.) Cloves. Journal of Food Science, 2010, 75, C740-6.	1.5	9
53	Induction of sesquiterpenes, phytoesterols and extracellular pathogenesis-related proteins in elicited cell cultures of <i>Capsicum annuum</i> . Journal of Plant Physiology, 2010, 167, 1273-1281.	1.6	57
54	Class III peroxidases in plant defence reactions. Journal of Experimental Botany, 2009, 60, 377-390.	2.4	711

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55	Synergistic effect of methyljasmonate and cyclodextrin on stilbene biosynthesis pathway gene expression and resveratrol production in Monastrell grapevine cell cultures. BMC Research Notes, 2008, 1, 132.	0.6	147