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	Class III peroxidases in plant defence reactions. Journal of Experimental Botany, 2009, 60, 377-390.	2.4	711
2	Indole Alkaloids from Catharanthus roseus: Bioproduction and Their Effect on Human Health. Molecules, 2015, 20, 2973-3000.	1.7	187
3	Combinatorial biosynthesis of sapogenins and saponins in Saccharomyces cerevisiae using a C-16Î± hydroxylase from Bupleurum falcatum. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1634-1639.	3.3	173
4	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
5	Enhanced extracellular production of trans-resveratrol in Vitis vinifera suspension cultured cells by using cyclodextrins and methyljasmonate. Plant Cell Reports, 2012, 31, 81-89.	2.8	109
6	Bioactivity of Phytosterols and Their Production in Plant in Vitro Cultures. Journal of Agricultural and Food Chemistry, 2016, 64, 7049-7058.	2.4	79
7	Induction of sesquiterpenes, phytoesterols and extracellular pathogenesis-related proteins in elicited cell cultures of Capsicum annuum. Journal of Plant Physiology, 2010, 167, 1273-1281.	1.6	57
8	Biosynthesis and bioactivity of glucosinolates and their production in plant in vitro cultures. Planta, 2017, 246, 19-32.	1.6	56
9	Dissecting the Transcriptional Response to Elicitors in Vitis vinifera Cells. PLoS ONE, 2014, 9, e109777.	1.1	56
10	New method to enhance ajmalicine production in Catharanthus roseus cell cultures based on the use of cyclodextrins. Biotechnology Letters, 2011, 33, 381-385.	1.1	50
11	Enhanced extracellular production of trans-resveratrol in Vitis vinifera suspension cultured cells by using cyclodextrins and coronatine. Plant Physiology and Biochemistry, 2015, 97, 361-367.	2.8	49
12	Biotechnological approaches to enhance the biosynthesis of ginkgolides and bilobalide in Ginkgo biloba. Phytochemistry Reviews, 2013, 12, 191-205.	3.1	46
13	Synergistic and additive influence of cyclodextrins and methyl jasmonate on the expression of the terpenoid indole alkaloid pathway genes and metabolites in Catharanthus roseus cell cultures. Plant Cell, Tissue and Organ Culture, 2014, 119, 543-551.	1.2	43
14	Enhancement of phytosterols, taraxasterol and induction of extracellular pathogenesis-related proteins in cell cultures of Solanum lycopersicum cv Micro-Tom elicited with cyclodextrins and methyl jasmonate. Journal of Plant Physiology, 2012, 169, 1050-1058.	1.6	37
15	Induction of trans-resveratrol and extracellular pathogenesis-related proteins in elicited suspension cultured cells of Vitis vinifera cv Monastrell. Journal of Plant Physiology, 2013, 170, 258-264.	1.6	35
16	A new regulatory mechanism controlling carotenogenesis in the fungus Mucor circinelloides as a target to generate Î²-carotene over-producing strains by genetic engineering. Microbial Cell Factories, 2016, 15, 99.	1.9	33
17	Synergistic and cytotoxic action of indole alkaloids produced from elicited cell cultures ofCatharanthus roseus. Pharmaceutical Biology, 2013, 51, 304-310.	1.3	31
18	A new strategy to enhance the biosynthesis of trans-resveratrol by overexpressing stilbene synthase gene in elicited Vitis vinifera cell cultures. Plant Physiology and Biochemistry, 2017, 113, 141-148.	2.8	30

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19	A Novel Hydroxylation Step in the Taxane Biosynthetic Pathway: A New Approach to Paclitaxel Production by Synthetic Biology. Frontiers in Bioengineering and Biotechnology, 2020, 8, 410.	2.0	30
20	Early signaling events in grapevine cells elicited with cyclodextrins and methyl jasmonate. Plant Physiology and Biochemistry, 2013, 62, 107-110.	2.8	26
21	Improved biotechnological production of paclitaxel in Taxus media cell cultures by the combined action of coronatine and calix[8]arenes. Plant Physiology and Biochemistry, 2021, 163, 68-75.	2.8	25
22	Early signaling network in tobacco cells elicited with methyl jasmonate and cyclodextrins. Plant Physiology and Biochemistry, 2012, 51, 1-9.	2.8	23
23	Enhanced accumulation of phytosterols and phenolic compounds in cyclodextrin-elicited cell suspension culture of Daucus carota. Plant Science, 2016, 250, 154-164.	1.7	22
24	Bioproduction of trans-Resveratrol from Grapevine Cell Cultures. , 2013, , 1683-1713.		21
25	New strategies for the use of Linum usitatissimum cell factories for the production of bioactive compounds. Plant Physiology and Biochemistry, 2016, 99, 73-78.	2.8	20
26	Perfluorodecalins and Hexenol as Inducers of Secondary Metabolism in Taxus media and Vitis vinifera Cell Cultures. Frontiers in Plant Science, 2018, 9, 335.	1.7	20
27	Cytotoxic Effect of Natural trans-Resveratrol Obtained from Elicited Vitis vinifera Cell Cultures on Three Cancer Cell Lines. Plant Foods for Human Nutrition, 2012, 67, 422-429.	1.4	18
28	Recent trends and comprehensive appraisal for the biotechnological production of trans-resveratrol and its derivatives. Phytochemistry Reviews, 2018, 17, 491-508.	3.1	17
29	Non-enzymatic screen-printed sensor based on PtNPs@polyazure A for the real-time tracking of the H2O2 secreted from living plant cells. Bioelectrochemistry, 2020, 134, 107526.	2.4	17
30	Use of cyclodextrins to improve the production of plant bioactive compounds. Phytochemistry Reviews, 2020, 19, 1061-1080.	3.1	16
31	Enhanced bioactive compound production in broccoli cells due to coronatine and methyl jasmonate is linked to antioxidative metabolism. Journal of Plant Physiology, 2020, 248, 153136.	1.6	15
32	Methyl jasmonate induces extracellular pathogenesis-related proteins in cell cultures ofCapsicum chinense. Plant Signaling and Behavior, 2011, 6, 440-442.	1.2	14
33	Induction of extracellular defense-related proteins in suspension cultured-cells of Daucus carota elicited with cyclodextrins and methyl jasmonate. Plant Physiology and Biochemistry, 2014, 77, 133-139.	2.8	12
34	Bioactivity and bioavailability of phytoene and strategies to improve its production. Phytochemistry Reviews, 2019, 18, 359-376.	3.1	12
35	Carrot hairy roots: factories for secondary metabolite production. Journal of Experimental Botany, 2020, 71, 6861-6864.	2.4	12
36	A Smart Strategy to Improve t-Resveratrol Production in Grapevine Cells Treated with Cyclodextrin Polymers Coated with Magnetic Nanoparticles. Polymers, 2020, 12, 991.	2.0	10

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37	Kinetic Characterization of a Basic Peroxidase from Garlic (Allium sativum L.) Cloves. Journal of Food Science, 2010, 75, C740-6.	1.5	9
38	Production and localization of hydrogen peroxide and nitric oxide in grapevine cells elicited with cyclodextrins and methyl jasmonate. Journal of Plant Physiology, 2019, 237, 80-86.	1.6	9
39	Cyclodextrins increase phytosterol and tocopherol levels in suspension cultured cells obtained from mung beans and safflower. Biotechnology Progress, 2017, 33, 1662-1665.	1.3	8
40	Effect of diflufenican on total carotenoid and phytoene production in carrot suspension-cultured cells. Planta, 2019, 249, 113-122.	1.6	8
41	Effect of UV Light on Secondary Metabolite Biosynthesis in Plant Cell Cultures Elicited with Cyclodextrins and Methyl Jasmonate. , 2011, , .		7
42	Increased Glucosinolate Production in Brassica oleracea var. italica Cell Cultures Due to Coronatine Activated Genes Involved in Glucosinolate Biosynthesis. Journal of Agricultural and Food Chemistry, 2019, 67, 102-111.	2.4	7
43	Transfecting Taxusâ€‰ï¿½â€‰media Protoplasts to Study Transcription Factors BIS2 and TSAR2 as Activators of Taxane-Related Genes. Plant and Cell Physiology, 2020, 61, 576-583.	1.5	7
44	Effect of terbinafine on the biosynthetic pathway of isoprenoid compounds in carrot suspension cultured cells. Plant Cell Reports, 2018, 37, 1011-1019.	2.8	6
45	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 Stevia rebaudiana. Plant Cell, Tissue and Organ Culture, 2021, 146, 171-184.	1.2	6
46	Critical parameters on which the production of trans-resveratrol in Vitis vinifera cv Monastrell cell cultures depends. Plant Cell, Tissue and Organ Culture, 2019, 138, 395-398.	1.2	5
47	Biotechnological production of Î²-carotene using plant in vitro cultures. Planta, 2022, 256, .	1.6	5
48	Changes in the secretome of Vitis vinifera cv. Monastrell cell cultures treated with cyclodextrins and methyl jasmonate. Plant Physiology and Biochemistry, 2019, 135, 520-527.	2.8	4
49	Recent trends in the biotechnological production of tocopherols using in vitro cultures. Phytochemistry Reviews, 2021, 20, 1193-1207.	3.1	4
50	Differential Response of Phenol Metabolism Associated with Antioxidative Network in Elicited Grapevine Suspension Cultured Cells under Saline Conditions. Antioxidants, 2022, 11, 388.	2.2	4
51	Bioproduction of Terpenoid Indole Alkaloids from Catharanthus roseus Cell Cultures. , 2013, , 85-117.		3
52	Production of fatty acid methyl esters and other bioactive compounds in elicited cultures of the fungus Mucor circinelloides. Mycological Progress, 2017, 16, 507-512.	0.5	3
53	Alterations in the silymarin metabolism in transgenic Silybum marianum cultured cells by the heterologous expression of the Arabidopsis thaliana V-myb myeloblastosis viral oncogene homolog transcription factor MYB12 and Cicer arietinum chalcone synthase. Industrial Crops and Products, 2020, 155, 112794.	2.5	3
54	Phenylpropanoids in Silybum marianum cultures treated with cyclodextrins coated with magnetic nanoparticles. Applied Microbiology and Biotechnology, 2022, 106, 2393-2401.	1.7	2

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55	Suspension-Cultured Plant Cells as a Tool to Analyze the Extracellular Proteome. Methods in Molecular Biology, 2014, 1072, 407-433.	0.4	0