Javier Palazon

List of Publications by Year
in descending order

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120 papers	5,194 citations	100601 38 h-index	116156 66 g-index
121 all docs	121 docs citations	121 times ranked	4372 citing authors

#	Article	IF	Citations
1	Phenylpropanoids in Silybum marianum cultures treated with cyclodextrins coated with magnetic nanoparticles. Applied Microbiology and Biotechnology, 2022, 106, 2393-2401.	1.7	2
2	Metabolic gene expression and centelloside production in elicited Centella asiatica hairy root cultures. Industrial Crops and Products, 2022, 184, 114988.	2.5	16
3	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
4	Methylâ€î²â€cyclodextrin and coronatine as new elicitors of tropane alkaloid biosynthesis in Atropa acuminata and Atropa belladonna hairy root cultures. Physiologia Plantarum, 2021, 172, 2098-2111.	2.6	11
5	Effect of Polyploidy Induction on Natural Metabolite Production in Medicinal Plants. Biomolecules, 2021, 11, 899.	1.8	36
6	Genetic engineering of tropane alkaloid biosynthesis of hyoscyamus reticulatus L. hairy roots by pmt gene overexpression and feeding with putrescine. Industrial Crops and Products, 2021, 170, 113716.	2.5	4
7	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
8	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
9	Physiological, biochemical, and metabolic responses of a Taxus baccata L. callus culture under drought stress. In Vitro Cellular and Developmental Biology - Plant, 2020, 56, 703-717.	0.9	4
10	Improved tropane alkaloid production and changes in gene expression in hairy root cultures of two Hyoscyamus species elicited by silicon dioxide nanoparticles. Plant Physiology and Biochemistry, 2020, 155, 416-428.	2.8	34
11	Production of Encecalin in Cell Cultures and Hairy Roots of Helianthella quinquenervis (Hook.) A. Gray. Molecules, 2020, 25, 3231.	1.7	3
12	Powerful Plant Antioxidants: A New Biosustainable Approach to the Production of Rosmarinic Acid. Antioxidants, 2020, 9, 1273.	2.2	40
13	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
14	Genetic structure, molecular and phytochemical analysis in Iranian populations of Ruscus hyrcanus (Asparagaceae). Industrial Crops and Products, 2020, 154, 112716.	2.5	8
15	Enhanced h6h transcript level, antioxidant activity and tropane alkaloid production in Hyoscyamus reticulatus L. hairy roots elicited by acetylsalicylic acid. Plant Biosystems, 2019, 153, 360-366.	0.8	3
16	Biotechnological production of ruscogenins in plant cell and organ cultures of Ruscus aculeatus. Plant Physiology and Biochemistry, 2019, 141, 133-141.	2.8	4
17	Genomic methylation in plant cell cultures: A barrier to the development of commercial longâ€term biofactories. Engineering in Life Sciences, 2019, 19, 872-879.	2.0	23
18	In Vitro Study of the Anticancer Effects of Biotechnological Extracts of the Endangered Plant Species Satureja Khuzistanica. International Journal of Molecular Sciences, 2019, 20, 2400.	1.8	11

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19	Stimulation of defense reactions in potato against Pectobacterium sp.. Journal of General Plant Pathology, 2019, 85, 257-272.	0.6	0
20	Improved effects of polyethylene glycol on the growth, antioxidative enzymes activity and taxanes production in a Taxus baccata L. callus culture. Plant Cell, Tissue and Organ Culture, 2019, 137, 319-328.	1.2	26
21	Influence of nanoâ€zinc oxide on tropane alkaloid production, h6h gene transcription and antioxidant enzyme activity in Hyoscyamus reticulatus L. hairy roots. Engineering in Life Sciences, 2019, 19, 73-89.	2.0	54
22	Taxus Cell Cultures: An Effective Biotechnological Tool to Enhance and Gain New Biosynthetic Insights into Taxane Production. Reference Series in Phytochemistry, 2018, , 295-316.	0.2	6
23	Extracellular chromone derivatives in cell cultures of Pimpinella anisum. Influence of elicitation with methyl jasmonate and 2Î²-methyl cyclodextrins. Biotechnology Letters, 2018, 40, 413-418.	1.1	5
24	Production of the Anticancer Compound Withaferin A from Genetically Transformed Hairy Root Cultures of Withania Somnifera. Natural Product Communications, 2018, 13, 1934578X1801300.	0.2	7
25	Biotechnological Production of Pharmaceuticals and Biopharmaceuticals in Plant Cell and Organ Cultures. Current Medicinal Chemistry, 2018, 25, 3577-3596.	1.2	50
26	The effects of salicylic acid and glucose on biochemical traits and taxane production in a Taxus baccata callus culture. Plant Physiology and Biochemistry, 2018, 132, 271-280.	2.8	30
27	Effect of in vitro morphogenesis on the production of podophyllotoxin derivatives in callus cultures of Linum album. Journal of Plant Physiology, 2018, 228, 47-58.	1.6	17
28	Rosa hybrida orcinol O-methyl transferase-mediated production of pterostilbene in metabolically engineered grapevine cell cultures. New Biotechnology, 2018, 42, 62-70.	2.4	13
29	Advances in the Regulation of In Vitro Paclitaxel Production: Methylation of a Y-Patch Promoter Region Alters BAPT Gene Expression in Taxus Cell Cultures. Plant and Cell Physiology, 2018, 59, 2255-2267.	1.5	15
30	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
31	Comparing aryltetralin lignan accumulation patterns in four biotechnological systems of Linum album. Journal of Plant Physiology, 2018, 228, 197-207.	1.6	12
32	Silybum marianum cell cultures stably transformed with Vitis vinifera stilbene synthase accumulate tâ€resveratrol in the extracellular medium after elicitation with methyl jasmonate or methylated Î²â€cyclodextrins. Engineering in Life Sciences, 2017, 17, 686-694.	2.0	26
33	Viability-reducing activity of Coryllus avellana L. extracts against human cancer cell lines. Biomedicine and Pharmacotherapy, 2017, 89, 565-572.	2.5	15
34	Biotechnological production of recombinant tissue plasminogen activator protein (reteplase) from transplastomic tobacco cell cultures. Plant Physiology and Biochemistry, 2017, 118, 130-137.	2.8	15
35	Bioconversion of stilbenes in genetically engineered root and cell cultures of tobacco. Scientific Reports, 2017, 7, 45331.	1.6	18
36	Effect of pRi T-DNA genes and elicitation on morphology and phytoecdysteroid biosynthesis in Ajuga bracteosa hairy roots. RSC Advances, 2017, 7, 47945-47953.	1.7	8

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37	Genetically engineered hairy root cultures of Hyoscyamus senecionis and H. muticus: ploidy as a promising parameter in the metabolic engineering of tropane alkaloids. Plant Cell Reports, 2017, 36, 1615-1626.	2.8	18
38	An optimized biotechnological system for the production of centellosides based on elicitation and bioconversion of Centella asiatica cell cultures. Engineering in Life Sciences, 2017, 17, 413-419.	2.0	17
39	Tailoring tobacco hairy root metabolism for the production of stilbenes. Scientific Reports, 2017, 7, 17976.	1.6	16
40	A Tau Class Glutathione-S-Transferase is Involved in Trans-Resveratrol Transport Out of Grapevine Cells. Frontiers in Plant Science, 2017, 8, 1457.	1.7	21
41	Elicitation, an Effective Strategy for the Biotechnological Production of Bioactive High-Added Value Compounds in Plant Cell Factories. Molecules, 2016, 21, 182.	1.7	375
42	Methyl jasmonate enhanced production of rosmarinic acid in cell cultures of Satureja khuzistanica in a bioreactor. Engineering in Life Sciences, 2016, 16, 740-749.	2.0	26
43	Secondary metabolites profiling of Dracocephalum kotschyi Boiss at three phenological stages using uni- and multivariate methods. Journal of Applied Research on Medicinal and Aromatic Plants, 2016, 3, 177-185.	0.9	14
44	Effect of Rol Genes on Polyphenols Biosynthesis in Artemisia annua and Their Effect on Antioxidant and Cytotoxic Potential of the Plant. Applied Biochemistry and Biotechnology, 2016, 179, 1456-1468.	1.4	34
45	Purification of recombinant tissue plasminogen activator (rtPA) protein from transplastomic tobacco plants. Plant Physiology and Biochemistry, 2016, 108, 139-144.	2.8	12
46	Rol genes enhance the biosynthesis of antioxidants in Artemisia carvifolia Buch. BMC Plant Biology, 2016, 16, 125.	1.6	24
47	Comprehensive screening of influential factors in the Agrobacterium tumefaciens- mediated transformation of the Himalayan elixir: Ajuga bracteosa Wall. ex. Benth. Journal of Applied Research on Medicinal and Aromatic Plants, 2016, 3, 151-159.	0.9	3
48	Production of highly bioactive resveratrol analogues pterostilbene and piceatannol in metabolically engineered grapevine cell cultures. Plant Biotechnology Journal, 2016, 14, 1813-1825.	4.1	57
49	The effect of rol genes on phytoecdysteroid biosynthesis in Ajuga bracteosa differs between transgenic plants and hairy roots. RSC Advances, 2016, 6, 22700-22708.	1.7	11
50	Transcript profiling of jasmonateâ€elicited Taxus cells reveals a Î²â€phenylalanineâ€CoA ligase. Plant Biotechnology Journal, 2016, 14, 85-96.	4.1	41
51	Taxus Cell Cultures, an Effective Biotechnological Tool to Enhance and Gain New Biosynthetic Insights into Taxane Production. , 2016, , 1-23.		1
52	Plant Anti-cancer Agents and their Biotechnological Production in Plant Cell Biofactories. Current Medicinal Chemistry, 2016, 23, 4418-4441.	1.2	11
53	Taxane production induced by methyl jasmonate in free and immobilized cell cultures of Mexican yew (Taxus globosa Schltdl). Acta Physiologiae Plantarum, 2015, 37, 1.	1.0	9
54	Enhanced artemisinin yield by expression of rol genes in Artemisia annua. Malaria Journal, 2015, 14, 424.	0.8	39

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55	Development of a hazel cell culture-based paclitaxel and baccatin III production process on a benchtop scale. Journal of Biotechnology, 2015, 195, 93-102.	1.9	22
56	Optimization of a liquid chromatography-tandem mass spectrometry method for the quantification of traces of taxanes in a Corylus avellana cell suspension medium. RSC Advances, 2015, 5, 17976-17983.	1.7	3
57	Changes in gene transcription and taxane production in elicited cell cultures of TaxusÃ—media and Taxus globosa. Phytochemistry, 2015, 117, 174-184.	1.4	47
58	Assessing factors that affect the growth of Corylus avellana cell suspension cultures: a statistical approach. In Vitro Cellular and Developmental Biology - Plant, 2015, 51, 530-538.	0.9	15
59	A reliable protocol for the stable transformation of non-embryogenic cells cultures of grapevine (Vitis vinifera L.) and Taxus x media. Journal of Biological Methods, 2015, 2, e21.	1.0	17
60	A rational approach to improving the biotechnological production of taxanes in plant cell cultures of Taxus spp.. Biotechnology Advances, 2014, 32, 1157-1167.	6.0	123
61	Taximin, a conserved plantâ€specific peptide is involved in the modulation of plantâ€specialized metabolism. Plant Biotechnology Journal, 2014, 12, 971-983.	4.1	30
62	Biotechnological production of centellosides in cell cultures of Centella asiatica (L) Urban. Engineering in Life Sciences, 2014, 14, 633-642.	2.0	41
63	New trends in biotechnological production of rosmarinic acid. Biotechnology Letters, 2014, 36, 2393-2406.	1.1	43
64	Synergistic effect of cyclodextrins and methyl jasmonate on taxane production in Taxus x media cell cultures. Plant Biotechnology Journal, 2014, 12, 1075-1084.	4.1	86
65	Xanthomicrol: A Comprehensive Review of Its Chemistry, Distribution, Biosynthesis and Pharmacological Activity. Mini-Reviews in Medicinal Chemistry, 2014, 14, 725-733.	1.1	17
66	Influence of hairy root ecotypes on production of tropane alkaloids in Brugmansia candida. Plant Cell, Tissue and Organ Culture, 2013, 114, 305-312.	1.2	12
67	A new biotechnological source of rosmarinic acid and surface flavonoids: Hairy root cultures of Dracocephalum kotschyi Boiss. Industrial Crops and Products, 2013, 50, 256-263.	2.5	47
68	Expression of the truncated tissue plasminogen activator (K2S) gene in tobacco chloroplast. Molecular Biology Reports, 2013, 40, 5749-5758.	1.0	15
69	Coronatine, a more powerful elicitor for inducing taxane biosynthesis in Taxus media cell cultures than methyl jasmonate. Journal of Plant Physiology, 2013, 170, 211-219.	1.6	113
70	Analysis of 6-methoxy podophyllotoxin and podophyllotoxin in hairy root cultures of Linum album Kotschy ex Boiss. Medicinal Chemistry Research, 2013, 22, 745-752.	1.1	32
71	Identification and quantification of leaf surface flavonoids in wild-growing populations of Dracocephalum kotschyi by LCâ€“DADâ€“ESI-MS. Food Chemistry, 2013, 141, 139-146.	4.2	57
72	Phenolic Acids. , 2013, , 1951-1973.		49

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73	Production and Genetic Engineering of Terpenoids Production in Plant Cell and Organ Cultures. , 2013, , 2761-2796.		10
74	Biosynthesis of Panaxynol and Panaxydol in Panax ginseng. Molecules, 2013, 18, 7686-7698.	1.7	17
75	The effect of light on gene expression and podophyllotoxin biosynthesis in Linum album cell culture. Plant Physiology and Biochemistry, 2012, 56, 41-46.	2.8	39
76	Production of centellosides and phytosterols in cell suspension cultures of Centella asiatica. Plant Cell, Tissue and Organ Culture, 2011, 104, 61-67.	1.2	95
77	The effect of pre-sowing treatments and light on seed germination of Dracocephalum kotschyi Boiss: An endangered medicinal plant in Iran. Horticulture Environment and Biotechnology, 2011, 52, 559-566.	0.7	17
78	Production of the anticancer drug taxol in Taxus baccata suspension cultures: A review. Process Biochemistry, 2011, 46, 23-34.	1.8	311
79	Podophyllotoxin: Current approaches to its biotechnological production and future challenges. Engineering in Life Sciences, 2010, 10, 281-292.	2.0	77
80	Conversion of Î±-amyrin into centellosides by plant cell cultures of Centella asiatica. Biotechnology Letters, 2010, 32, 315-319.	1.1	24
81	Salicylic acid improves podophyllotoxin production in cell cultures of Linum album by increasing the expression of genes related with its biosynthesis. Biotechnology Letters, 2010, 32, 1739-1743.	1.1	68
82	Valuable medicinal plants and resins: Commercial phytochemicals with bioactive properties. Industrial Crops and Products, 2010, 31, 476-480.	2.5	39
83	Metabolic responses of Taxus media transformed cell cultures to the addition of methyl jasmonate. Biotechnology Progress, 2010, 26, 1145-1153.	1.3	70
84	An approach to the molecular mechanism of methyl jasmonate and vanadyl sulphate elicitation in Taxus baccata cell cultures: The role of txs and bapt gene expression. Biochemical Engineering Journal, 2010, 53, 104-111.	1.8	47
85	Effect of taxol feeding on taxol and related taxane production in Taxus baccata suspension cultures. New Biotechnology, 2009, 25, 252-259.	2.4	48
86	Morphology and withanolide production of Withania coagulans hairy root cultures. Engineering in Life Sciences, 2009, 9, 197-204.	2.0	41
87	Steroidal Lactones from Withania somnifera, an Ancient Plant for Novel Medicine. Molecules, 2009, 14, 2373-2393.	1.7	426
88	Triterpenoid saponin content and the expression level of some related genes in calli of Centella asiatica. Biotechnology Letters, 2008, 30, 1853-1859.	1.1	51
89	Application of Metabolic Engineering to the Production of Scopolamine. Molecules, 2008, 13, 1722-1742.	1.7	69
90	Immobilization of Galphimia glauca Plant Cell Suspensions for the Production of Enhanced Amounts of Galphimine-B. Planta Medica, 2008, 74, 94-99.	0.7	20

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91	Biotransformation of hyoscyamine into scopolamine in transgenic tobacco cell cultures. Journal of Plant Physiology, 2007, 164, 521-524.	1.6	34
92	Centellosides Production and Expression Level of Genes Encoding their Synthesis in Centella asiatica in vitro cultures. Journal of Biotechnology, 2007, 131, S45-S46.	1.9	1
93	Source of isopentenyl diphosphate for taxol and baccatin III biosynthesis in cell cultures of Taxus baccata. Biochemical Engineering Journal, 2007, 33, 159-167.	1.8	37
94	The effect of methyl jasmonate on triterpene and sterol metabolisms of Centella asiatica, Ruscus aculeatus and Galphimia glauca cultured plants. Phytochemistry, 2006, 67, 2041-2049.	1.4	99
95	Effect of organogenesis on steroidal saponin biosynthesis in calli cultures of Ruscus aculeatus. FÃ¬toterapÃ¬Â¢, 2006, 77, 216-220.	1.1	14
96	Identification of triterpenoid compounds ofCentella asiatica by thin-layer chromatography and mass spectrometry. Biomedical Chromatography, 2006, 20, 151-153.	0.8	68
97	Effects of immobilization by entrapment in alginate and scale-up on paclitaxel and baccatin III production in cell suspension cultures ofTaxus baccata. Biotechnology and Bioengineering, 2005, 89, 647-655.	1.7	97
98	Enhanced secretion of tropane alkaloids in Nicotiana tabacum hairy roots expressing heterologous hyoscyamine-6Î²-hydroxylase. Journal of Experimental Botany, 2005, 56, 2611-2618.	2.4	80
99	Relationship between peroxidase activity and organogenesis in Panax ginseng calluses. Plant Cell, Tissue and Organ Culture, 2003, 73, 37-41.	1.2	18
100	Elicitation of different Panax ginseng transformed root phenotypes for an improved ginsenoside production. Plant Physiology and Biochemistry, 2003, 41, 1019-1025.	2.8	113
101	Influence of elicitors on taxane production and 3-hydroxy-3-methylglutaryl coenzyme A reductase activity in Taxus media cells. Plant Physiology and Biochemistry, 2003, 41, 91-96.	2.8	41
102	Inhibition of paclitaxel and baccatin III accumulation by mevinolin and fosmidomycin in suspension cultures of Taxus baccata. Journal of Biotechnology, 2003, 101, 157-163.	1.9	66
103	Effect of pmt gene overexpression on tropane alkaloid production in transformed root cultures of Datura metel and Hyoscyamus muticus. Journal of Experimental Botany, 2003, 54, 203-211.	2.4	128
104	Growth and Ginsenoside Production in Hairy Root Cultures ofPanax ginsengusing a Novel Bioreactor. Planta Medica, 2003, 69, 344-349.	0.7	117
105	TaxolÂ® and baccatin III production in suspension cultures of Taxus baccata and Taxus wallichiana in an airlift bioreactor. Journal of Plant Physiology, 2002, 159, 97-102.	1.6	37
106	Improved high performance liquid chromatographic determination of ginsenosides inPanax ginseng-based pharmaceuticals using a diol column. Biomedical Chromatography, 2002, 16, 68-72.	0.8	23
107	Taxol transport in Taxus baccata cell suspension cultures. Plant Physiology and Biochemistry, 2002, 40, 81-88.	2.8	27
108	Alkaloid production in Duboisia hybrid hairy root cultures overexpressing the pmt gene. Phytochemistry, 2002, 59, 697-702.	1.4	89

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109	Improved Paclitaxel and Baccatin III Production in Suspension Cultures of Taxus media. Biotechnology Progress, 2002, 18, 418-423.	1.3	89
110	Influence of auxins on organogenesis and ginsenoside production in Panax ginseng calluses. Plant Cell, Tissue and Organ Culture, 2002, 68, 73-78.	1.2	39
111	Ginsenoside production in different phenotypes of Panax ginseng transformed roots. Phytochemistry, 2001, 57, 365-371.	1.4	88
112	Decreased Scopolamine Yield in Field-Grown Duboisia Plants Regenerated from Hairy Roots. Planta Medica, 2001, 67, 249-253.	0.7	26
113	Datura metel: In Vitro Production of Tropane Alkaloids. Planta Medica, 1999, 65, 144-148.	0.7	34
114	Influence of calcium ion-concentration in the medium on tropane alkaloid accumulation in Datura stramonium hairy roots. Plant Science, 1999, 141, 41-49.	1.7	38
115	Production of TaxolÂ® and baccatin III by a selected Taxus baccata callus line and its derived cell suspension culture. Plant Science, 1999, 146, 101-107.	1.7	73
116	Relation between the amount of rolC gene product and indole alkaloid accumulation in Catharanthus roseus transformed root cultures. Journal of Plant Physiology, 1998, 153, 712-718.	1.6	91
117	Effect of auxin concentration and growth phase on the plasma membrane H+-ATPase of tobacco calli. Plant Science, 1990, 70, 209-214.	1.7	32
118	Effects of the growth regulator 4PU-30 on growth, K+ content, and alkaloid production in tobacco callus cultures. Journal of Plant Growth Regulation, 1987, 5, 183-189.	2.8	4
119	Growth and nicotine content of tobacco callus cultures without organogenesis. Plant Science Letters, 1984, 35, 219-223.	1.9	14
120	The Epigenetic Regulation in Plant Specialized Metabolism: DNA Methylation Limits Paclitaxel in vitro Biotechnological Production. Frontiers in Plant Science, 0, 13, .	1.7	9