

# Rosa Maria Cusido

## List of Publications by Year in descending order

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105  
papers

5,192  
citations

87401

40  
h-index

111975

67  
g-index

107  
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107  
docs citations

107  
times ranked

4205  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of lipid droplets from a <i>Taxus media</i> cell suspension and their potential involvement in trafficking and secretion of paclitaxel. <i>Plant Cell Reports</i> , 2022, 41, 853-871.	2.8	7
2	Metabolic gene expression and centelloside production in elicited <i>Centella asiatica</i> hairy root cultures. <i>Industrial Crops and Products</i> , 2022, 184, 114988.	2.5	16
3	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
4	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
5	Powerful Plant Antioxidants: A New Biosustainable Approach to the Production of Rosmarinic Acid. <i>Antioxidants</i> , 2020, 9, 1273.	2.2	40
6	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
7	Metabolite profiling of <i>Artemisia carvifolia</i> Buch transgenic plants and estimation of their anticancer and antidiabetic potential. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 24, 101539.	1.5	6
8	Biotechnological production of ruscogenins in plant cell and organ cultures of <i>Ruscus aculeatus</i> . <i>Plant Physiology and Biochemistry</i> , 2019, 141, 133-141.	2.8	4
9	Genomic methylation in plant cell cultures: A barrier to the development of commercial long-term biofactories. <i>Engineering in Life Sciences</i> , 2019, 19, 872-879.	2.0	23
10	In Vitro Study of the Anticancer Effects of Biotechnological Extracts of the Endangered Plant Species <i>Satureja khuzistanica</i> . <i>International Journal of Molecular Sciences</i> , 2019, 20, 2400.	1.8	11
11	Stimulation of defense reactions in potato against <i>Pectobacterium</i> sp.. <i>Journal of General Plant Pathology</i> , 2019, 85, 257-272.	0.6	0
12	<i>Taxus</i> Cell Cultures: An Effective Biotechnological Tool to Enhance and Gain New Biosynthetic Insights into Taxane Production. <i>Reference Series in Phytochemistry</i> , 2018, , 295-316.	0.2	6
13	Effect of in vitro morphogenesis on the production of podophyllotoxin derivatives in callus cultures of <i>Linum album</i> . <i>Journal of Plant Physiology</i> , 2018, 228, 47-58.	1.6	17
14	Advances in the Regulation of In Vitro Paclitaxel Production: Methylation of a Y-Patch Promoter Region Alters BAPT Gene Expression in <i>Taxus</i> Cell Cultures. <i>Plant and Cell Physiology</i> , 2018, 59, 2255-2267.	1.5	15
15	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
16	Comparing aryltetralin lignan accumulation patterns in four biotechnological systems of <i>Linum album</i> . <i>Journal of Plant Physiology</i> , 2018, 228, 197-207.	1.6	12
17	Biotechnological production of recombinant tissue plasminogen activator protein (reteplase) from transplastomic tobacco cell cultures. <i>Plant Physiology and Biochemistry</i> , 2017, 118, 130-137.	2.8	15
18	Effect of pRi T-DNA genes and elicitation on morphology and phytoecdysteroid biosynthesis in <i>Ajuga bracteosa</i> hairy roots. <i>RSC Advances</i> , 2017, 7, 47945-47953.	1.7	8

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19	An optimized biotechnological system for the production of centellosides based on elicitation and bioconversion of <i>Centella asiatica</i> cell cultures. <i>Engineering in Life Sciences</i> , 2017, 17, 413-419.	2.0	17
20	Tailoring tobacco hairy root metabolism for the production of stilbenes. <i>Scientific Reports</i> , 2017, 7, 17976.	1.6	16
21	Elicitation, an Effective Strategy for the Biotechnological Production of Bioactive High-Added Value Compounds in Plant Cell Factories. <i>Molecules</i> , 2016, 21, 182.	1.7	375
22	Exploring the Metabolic Stability of Engineered Hairy Roots after 16 Years Maintenance. <i>Frontiers in Plant Science</i> , 2016, 7, 1486.	1.7	50
23	Methyl jasmonate enhanced production of rosmarinic acid in cell cultures of <i>Satureja khuzistanica</i> in a bioreactor. <i>Engineering in Life Sciences</i> , 2016, 16, 740-749.	2.0	26
24	Secondary metabolites profiling of <i>Dracocephalum kotschyi</i> Boiss at three phenological stages using uni- and multivariate methods. <i>Journal of Applied Research on Medicinal and Aromatic Plants</i> , 2016, 3, 177-185.	0.9	14
25	Effect of Rol Genes on Polyphenols Biosynthesis in <i>Artemisia annua</i> and Their Effect on Antioxidant and Cytotoxic Potential of the Plant. <i>Applied Biochemistry and Biotechnology</i> , 2016, 179, 1456-1468.	1.4	34
26	Purification of recombinant tissue plasminogen activator (rtPA) protein from transplastomic tobacco plants. <i>Plant Physiology and Biochemistry</i> , 2016, 108, 139-144.	2.8	12
27	Rol genes enhance the biosynthesis of antioxidants in <i>Artemisia carvifolia</i> Buch. <i>BMC Plant Biology</i> , 2016, 16, 125.	1.6	24
28	Comprehensive screening of influential factors in the <i>Agrobacterium tumefaciens</i> - mediated transformation of the Himalayan elixir: <i>Ajuga bracteosa</i> Wall. ex. Benth. <i>Journal of Applied Research on Medicinal and Aromatic Plants</i> , 2016, 3, 151-159.	0.9	3
29	Production of highly bioactive resveratrol analogues pterostilbene and piceatannol in metabolically engineered grapevine cell cultures. <i>Plant Biotechnology Journal</i> , 2016, 14, 1813-1825.	4.1	57
30	The effect of rol genes on phytoecdysteroid biosynthesis in <i>Ajuga bracteosa</i> differs between transgenic plants and hairy roots. <i>RSC Advances</i> , 2016, 6, 22700-22708.	1.7	11
31	Transcript profiling of jasmonate-elicited <i>Taxus</i> cells reveals a $\beta$ -phenylalanine-CoA ligase. <i>Plant Biotechnology Journal</i> , 2016, 14, 85-96.	4.1	41
32	<i>Taxus</i> Cell Cultures, an Effective Biotechnological Tool to Enhance and Gain New Biosynthetic Insights into Taxane Production. , 2016, , 1-23.		1
33	Plant Anti-cancer Agents and their Biotechnological Production in Plant Cell Biofactories. <i>Current Medicinal Chemistry</i> , 2016, 23, 4418-4441.	1.2	11
34	Genetic Transformation of <i>Artemisia carvifolia</i> Buch with rol Genes Enhances Artemisinin Accumulation. <i>PLoS ONE</i> , 2015, 10, e0140266.	1.1	47
35	Enhanced artemisinin yield by expression of rol genes in <i>Artemisia annua</i> . <i>Malaria Journal</i> , 2015, 14, 424.	0.8	39
36	Development of a hazel cell culture-based paclitaxel and baccatin III production process on a benchtop scale. <i>Journal of Biotechnology</i> , 2015, 195, 93-102.	1.9	22

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37	Changes in gene transcription and taxane production in elicited cell cultures of <i>Taxus media</i> and <i>Taxus globosa</i> . <i>Phytochemistry</i> , 2015, 117, 174-184.	1.4	47
38	Assessing factors that affect the growth of <i>Corylus avellana</i> cell suspension cultures: a statistical approach. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2015, 51, 530-538.	0.9	15
39	A rational approach to improving the biotechnological production of taxanes in plant cell cultures of <i>Taxus</i> spp.. <i>Biotechnology Advances</i> , 2014, 32, 1157-1167.	6.0	123
40	Taximin, a conserved plant-specific peptide is involved in the modulation of plant-specialized metabolism. <i>Plant Biotechnology Journal</i> , 2014, 12, 971-983.	4.1	30
41	Biotechnological production of centellosides in cell cultures of <i>Centella asiatica</i> (L) Urban. <i>Engineering in Life Sciences</i> , 2014, 14, 633-642.	2.0	41
42	Synergistic effect of cyclodextrins and methyl jasmonate on taxane production in <i>Taxus x media</i> cell cultures. <i>Plant Biotechnology Journal</i> , 2014, 12, 1075-1084.	4.1	86
43	Xanthomicrol: A Comprehensive Review of Its Chemistry, Distribution, Biosynthesis and Pharmacological Activity. <i>Mini-Reviews in Medicinal Chemistry</i> , 2014, 14, 725-733.	1.1	17
44	A new biotechnological source of rosmarinic acid and surface flavonoids: Hairy root cultures of <i>Dracocephalum kotschy</i> Boiss. <i>Industrial Crops and Products</i> , 2013, 50, 256-263.	2.5	47
45	Expression of the truncated tissue plasminogen activator (K2S) gene in tobacco chloroplast. <i>Molecular Biology Reports</i> , 2013, 40, 5749-5758.	1.0	15
46	Coronatine, a more powerful elicitor for inducing taxane biosynthesis in <i>Taxus media</i> cell cultures than methyl jasmonate. <i>Journal of Plant Physiology</i> , 2013, 170, 211-219.	1.6	113
47	Identification and quantification of leaf surface flavonoids in wild-growing populations of <i>Dracocephalum kotschy</i> by LC-ESI-MS. <i>Food Chemistry</i> , 2013, 141, 139-146.	4.2	57
48	Phenolic Acids. , 2013, , 1951-1973.		49
49	Production and Genetic Engineering of Terpenoids Production in Plant Cell and Organ Cultures. , 2013, , 2761-2796.		10
50	Biosynthesis of Panaxynol and Panaxydol in <i>Panax ginseng</i> . <i>Molecules</i> , 2013, 18, 7686-7698.	1.7	17
51	Phenolic compound production in relation to differentiation in cell and tissue cultures of <i>Larrea divaricata</i> (Cav.). <i>Plant Science</i> , 2012, 193-194, 1-7.	1.7	44
52	The relationship between TXS, DBAT, BAPT and DBTNBT gene expression and taxane production during the development of <i>Taxus baccata</i> plantlets. <i>Plant Science</i> , 2011, 181, 282-287.	1.7	42
53	Overexpression of the <i>Arabidopsis thaliana</i> squalene synthase gene in <i>Withania coagulans</i> hairy root cultures. <i>Biologia Plantarum</i> , 2011, 55, 357-360.	1.9	44
54	Production of centellosides and phytosterols in cell suspension cultures of <i>Centella asiatica</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2011, 104, 61-67.	1.2	95

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55	Phenolic compound production by <i>Larrea divaricata</i> Cav. plant cell cultures and effect of precursor feeding. <i>Process Biochemistry</i> , 2011, 46, 418-422.	1.8	25
56	Production of the anticancer drug taxol in <i>Taxus baccata</i> suspension cultures: A review. <i>Process Biochemistry</i> , 2011, 46, 23-34.	1.8	311
57	Podophyllotoxin: Current approaches to its biotechnological production and future challenges. <i>Engineering in Life Sciences</i> , 2010, 10, 281-292.	2.0	77
58	Conversion of $\beta$ -amyrin into centellosides by plant cell cultures of <i>Centella asiatica</i> . <i>Biotechnology Letters</i> , 2010, 32, 315-319.	1.1	24
59	Metabolic responses of <i>Taxus media</i> transformed cell cultures to the addition of methyl jasmonate. <i>Biotechnology Progress</i> , 2010, 26, 1145-1153.	1.3	70
60	An approach to the molecular mechanism of methyl jasmonate and vanadyl sulphate elicitation in <i>Taxus baccata</i> cell cultures: The role of <i>txs</i> and <i>bapt</i> gene expression. <i>Biochemical Engineering Journal</i> , 2010, 53, 104-111.	1.8	47
61	Effect of taxol feeding on taxol and related taxane production in <i>Taxus baccata</i> suspension cultures. <i>New Biotechnology</i> , 2009, 25, 252-259.	2.4	48
62	Morphology and withanolide production of <i>Withania coagulans</i> hairy root cultures. <i>Engineering in Life Sciences</i> , 2009, 9, 197-204.	2.0	41
63	Steroidal Lactones from <i>Withania somnifera</i> , an Ancient Plant for Novel Medicine. <i>Molecules</i> , 2009, 14, 2373-2393.	1.7	426
64	Triterpenoid saponin content and the expression level of some related genes in calli of <i>Centella asiatica</i> . <i>Biotechnology Letters</i> , 2008, 30, 1853-1859.	1.1	51
65	Immobilization of <i>Galphimia glauca</i> Plant Cell Suspensions for the Production of Enhanced Amounts of Galphimine-B. <i>Planta Medica</i> , 2008, 74, 94-99.	0.7	20
66	In Vitro Propagation of "Jarilla" ( <i>Larrea divaricata</i> CAV.) and Secondary Metabolite Production. <i>Biological and Pharmaceutical Bulletin</i> , 2008, 31, 2321-2325.	0.6	17
67	Biotransformation of hyoscyamine into scopolamine in transgenic tobacco cell cultures. <i>Journal of Plant Physiology</i> , 2007, 164, 521-524.	1.6	34
68	Centellosides Production and Expression Level of Genes Encoding their Synthesis in <i>Centella asiatica</i> in vitro cultures. <i>Journal of Biotechnology</i> , 2007, 131, S45-S46.	1.9	1
69	Source of isopentenyl diphosphate for taxol and baccatin III biosynthesis in cell cultures of <i>Taxus baccata</i> . <i>Biochemical Engineering Journal</i> , 2007, 33, 159-167.	1.8	37
70	Paclitaxel and baccatin III production induced by methyl jasmonate in free and immobilized cells of <i>Taxus baccata</i> . <i>Biologia Plantarum</i> , 2007, 51, 647-652.	1.9	38
71	Manipulation by culture mixing and elicitation of paclitaxel and baccatin III production in <i>Taxus baccata</i> suspension cultures. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2006, 42, 422-426.	0.9	24
72	The effect of methyl jasmonate on triterpene and sterol metabolisms of <i>Centella asiatica</i> , <i>Ruscus aculeatus</i> and <i>Galphimia glauca</i> cultured plants. <i>Phytochemistry</i> , 2006, 67, 2041-2049.	1.4	99

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73	In vitro micropropagation of <i>Ruscus aculeatus</i> . <i>Biologia Plantarum</i> , 2006, 50, 441-443.	1.9	6
74	Effect of organogenesis on steroidal saponin biosynthesis in calli cultures of <i>Ruscus aculeatus</i> . <i>FÄ-toterapÄ-Äç</i> , 2006, 77, 216-220.	1.1	14
75	Identification of triterpenoid compounds of <i>Centella asiatica</i> by thin-layer chromatography and mass spectrometry. <i>Biomedical Chromatography</i> , 2006, 20, 151-153.	0.8	68
76	Effects of immobilization by entrapment in alginate and scale-up on paclitaxel and baccatin III production in cell suspension cultures of <i>Taxus baccata</i> . <i>Biotechnology and Bioengineering</i> , 2005, 89, 647-655.	1.7	97
77	Enhanced secretion of tropane alkaloids in <i>Nicotiana tabacum</i> hairy roots expressing heterologous hyoscyamine-6Î²-hydroxylase. <i>Journal of Experimental Botany</i> , 2005, 56, 2611-2618.	2.4	80
78	Relationship between peroxidase activity and organogenesis in <i>Panax ginseng</i> calluses. <i>Plant Cell, Tissue and Organ Culture</i> , 2003, 73, 37-41.	1.2	18
79	Elicitation of different <i>Panax ginseng</i> transformed root phenotypes for an improved ginsenoside production. <i>Plant Physiology and Biochemistry</i> , 2003, 41, 1019-1025.	2.8	113
80	Influence of elicitors on taxane production and 3-hydroxy-3-methylglutaryl coenzyme A reductase activity in <i>Taxus media</i> cells. <i>Plant Physiology and Biochemistry</i> , 2003, 41, 91-96.	2.8	41
81	Inhibition of paclitaxel and baccatin III accumulation by mevinolin and fosmidomycin in suspension cultures of <i>Taxus baccata</i> . <i>Journal of Biotechnology</i> , 2003, 101, 157-163.	1.9	66
82	Alkaloid production in <i>Duboisia</i> hybrid hairy roots and plants overexpressing the h6h gene. <i>Plant Science</i> , 2003, 165, 1289-1295.	1.7	80
83	Effect of pmt gene overexpression on tropane alkaloid production in transformed root cultures of <i>Datura metel</i> and <i>Hyoscyamus muticus</i> . <i>Journal of Experimental Botany</i> , 2003, 54, 203-211.	2.4	128
84	Growth and Ginsenoside Production in Hairy Root Cultures of <i>Panax ginseng</i> using a Novel Bioreactor. <i>Planta Medica</i> , 2003, 69, 344-349.	0.7	117
85	Production of Paclitaxel and Baccatin III in a 20-L Airlift Bioreactor by a Cell Suspension of <i>Taxus wallichiana</i> . <i>Planta Medica</i> , 2002, 68, 336-340.	0.7	23
86	Taxol® and baccatin III production in suspension cultures of <i>Taxus baccata</i> and <i>Taxus wallichiana</i> in an airlift bioreactor. <i>Journal of Plant Physiology</i> , 2002, 159, 97-102.	1.6	37
87	Taxol transport in <i>Taxus baccata</i> cell suspension cultures. <i>Plant Physiology and Biochemistry</i> , 2002, 40, 81-88.	2.8	27
88	Alkaloid production in <i>Duboisia</i> hybrid hairy root cultures overexpressing the pmt gene. <i>Phytochemistry</i> , 2002, 59, 697-702.	1.4	89
89	Improved Paclitaxel and Baccatin III Production in Suspension Cultures of <i>Taxus media</i> . <i>Biotechnology Progress</i> , 2002, 18, 418-423.	1.3	89
90	Influence of auxins on organogenesis and ginsenoside production in <i>Panax ginseng</i> calluses. <i>Plant Cell, Tissue and Organ Culture</i> , 2002, 68, 73-78.	1.2	39

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91	Ginsenoside production in different phenotypes of <i>Panax ginseng</i> transformed roots. <i>Phytochemistry</i> , 2001, 57, 365-371.	1.4	88
92	Effect of Benzyladenine and Indolebutyric Acid on Ultrastructure, Glands Formation, and Essential Oil Accumulation in <i>Lavandula Dentata</i> Plantlets. <i>Biologia Plantarum</i> , 2001, 44, 1-6.	1.9	28
93	Decreased Scopolamine Yield in Field-Grown <i>Duboisia</i> Plants Regenerated from Hairy Roots. <i>Planta Medica</i> , 2001, 67, 249-253.	0.7	26
94	<i>Datura metel</i> : In Vitro Production of Tropane Alkaloids. <i>Planta Medica</i> , 1999, 65, 144-148.	0.7	34
95	Effect of <i>Agrobacterium rhizogenes</i> T-DNA on alkaloid production in Solanaceae plants. <i>Phytochemistry</i> , 1999, 52, 1287-1292.	1.4	59
96	Title is missing!. <i>Plant Cell, Tissue and Organ Culture</i> , 1999, 58, 177-184.	1.2	54
97	Influence of calcium ion-concentration in the medium on tropane alkaloid accumulation in <i>Datura stramonium</i> hairy roots. <i>Plant Science</i> , 1999, 141, 41-49.	1.7	38
98	Production of Taxol <sup>®</sup> and baccatin III by a selected <i>Taxus baccata</i> callus line and its derived cell suspension culture. <i>Plant Science</i> , 1999, 146, 101-107.	1.7	73
99	Expression of the rol C gene and nicotine production in transgenic roots and their regenerated plants. <i>Plant Cell Reports</i> , 1998, 17, 384-390.	2.8	87
100	Relation between the amount of rolC gene product and indole alkaloid accumulation in <i>Catharanthus roseus</i> transformed root cultures. <i>Journal of Plant Physiology</i> , 1998, 153, 712-718.	1.6	91
101	Effect of auxin and phenobarbital on the ultrastructure and digitoxin content in <i>Digitalis purpurea</i> tissue culture. <i>Canadian Journal of Botany</i> , 1996, 74, 378-382.	1.2	9
102	Effects of Auxin and Phenobarbital on Morphogenesis and Production of Digitoxin in <i>Digitalis</i> Callus. <i>Plant and Cell Physiology</i> , 1995, 36, 247-252.	1.5	22
103	Effect of salinity on soluble protein, free amino acids and nicotine contents in <i>Nicotiana rustica</i> L.. <i>Plant and Soil</i> , 1987, 102, 55-60.	1.8	51
104	Ontogenic variations in the alkaloids of <i>Narcissus assoanus</i> . <i>Physiologia Plantarum</i> , 1986, 68, 657-661.	2.6	17
105	The Epigenetic Regulation in Plant Specialized Metabolism: DNA Methylation Limits Paclitaxel in vitro Biotechnological Production. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	9