Kirsi-Marja Oksman-Caldentey

List of Publications by Year
in descending order

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92 papers	7,638 citations	66234 42 h-index	53109 85 g-index
95 all docs	95 docs citations	95 times ranked	8142 citing authors

#	ARTICLE	IF	CITATIONS
1	The role of single cell protein in cellular agriculture. Current Opinion in Biotechnology, 2022, 75, 102686.	3.3	47
2	Natural Antimicrobials from Cloudberry (Rubus chamaemorus) Seeds by Sanding and Hydrothermal Extraction. ACS Food Science & Technology, 2021, 1, 917-927.	1.3	9
3	Contributions of the international plant science community to the fight against infectious diseases in humansâ€"part 2: Affordable drugs in edible plants for endemic and reâ€emerging diseases. Plant Biotechnology Journal, 2021, 19, 1921-1936.	4.1	31
4	Contributions of the international plant science community to the fight against human infectious diseases â€“ part 1: epidemic and pandemic diseases. Plant Biotechnology Journal, 2021, 19, 1901-1920.	4.1	44
5	Chicory Extracts and Sesquiterpene Lactones Show Potent Activity against Bacterial and Fungal Pathogens. Pharmaceuticals, 2021, 14, 941.	1.7	22
6	Sanguiin H-6 Fractionated from Cloudberry (Rubus chamaemorus) Seeds Can Prevent the Methicillin-Resistant Staphylococcus aureus Biofilm Development during Wound Infection. Antibiotics, 2021, 10, 1481.	1.5	7
7	Hairy Root Culturesâ€"A Versatile Tool With Multiple Applications. Frontiers in Plant Science, 2020, 11, 33.	1.7	147
8	Agrobacterium-Mediated Genetic Transformation of the Medicinal Plant Veratrum dahuricum. Plants, 2020, 9, 191.	1.6	19
9	Cellular agriculture â€" industrial biotechnology for food and materials. Current Opinion in Biotechnology, 2020, 61, 128-134.	3.3	108
10	Methyljasmonate Elicitation Increases Terpenoid Indole Alkaloid Accumulation in Rhazya stricta Hairy Root Cultures. Plants, 2019, 8, 534.	1.6	28
11	Biotransformation of Cyclodextrine-Complexed Semisynthetic Betulin Derivatives by Plant Cells. Planta Medica, 2018, 84, 743-748.	0.7	1
12	Progress and Prospects of Hairy Root Research. , 2018, , 3-19.		18
13	Biotechnology of the medicinal plant Rhazya stricta: a little investigated member of the Apocynaceae family. Biotechnology Letters, 2017, 39, 829-840.	1.1	9
14	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
15	Exploring the Metabolic Stability of Engineered Hairy Roots after 16 Years Maintenance. Frontiers in Plant Science, 2016, 7, 1486.	1.7	50
16	Fermentation and dry fractionation increase bioactivity of cloudberry (Rubus chamaemorus). Food Chemistry, 2016, 197, 950-958.	4.2	17
17	Abietane-Type Diterpenoid Amides with Highly Potent and Selective Activity against Leishmania donovani and Trypanosoma cruzi. Journal of Natural Products, 2016, 79, 362-368.	1.5	23
18	Determination of terpenoid indole alkaloids in hairy roots of Rhazya stricta (Apocynaceae) by GCâ€MS. Phytochemical Analysis, 2015, 26, 331-338.	1.2	18

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19	Analysis of Indole Alkaloids from Rhazya stricta Hairy Roots by Ultra-Performance Liquid Chromatography-Mass Spectrometry. Molecules, 2015, 20, 22621-22634.	1.7	18
20	Bioconversion to Raspberry Ketone is Achieved by Several Non-related Plant Cell Cultures. Frontiers in Plant Science, 2015, 6, 1035.	1.7	12
21	Establishment of transgenic Rhazya stricta hairy roots to modulate terpenoid indole alkaloid production. Plant Cell Reports, 2015, 34, 1939-1952.	2.8	16
22	Optimization of Invasion-Specific Effects of Betulin Derivatives on Prostate Cancer Cells through Lead Development. PLoS ONE, 2015, 10, e0126111.	1.1	20
23	Cloudberry (Rubus chamaemorus) cell culture with bioactive substances: Establishment and mass propagation for industrial use. Engineering in Life Sciences, 2014, 14, 667-675.	2.0	24
24	Disposable Bioreactors for Cultivation of Plant Cell Cultures. , 2014, , 17-46.		21
25	Metabolic flux phenotype of tobacco hairy roots engineered for increased geraniol production. Phytochemistry, 2014, 99, 73-85.	1.4	33
26	Comparison of plant-based expression platforms for the heterologous production of geraniol. Plant Cell, Tissue and Organ Culture, 2014, 117, 373.	1.2	28
27	Evaluation of tobacco (Nicotiana tabacum L. cv. Petit Havana SR1) hairy roots for the production of geraniol, the first committed step in terpenoid indole alkaloid pathway. Journal of Biotechnology, 2014, 176, 20-28.	1.9	36
28	Molecular farming in tobacco hairy roots by triggering the secretion of a pharmaceutical antibody. Biotechnology and Bioengineering, 2014, 111, 336-346.	1.7	67
29	The seco-iridoid pathway from Catharanthus roseus. Nature Communications, 2014, 5, 3606.	5.8	355
30	Effects of ellagitanninâ€rich berries on blood lipids, gut microbiota, and urolithin production in human subjects with symptoms of metabolic syndrome. Molecular Nutrition and Food Research, 2013, 57, 2258-2263.	1.5	93
31	Analysis of the Interface between Primary and Secondary Metabolism in Catharanthus roseus Cell Cultures Using 13C-Stable Isotope Feeding and Coupled Mass Spectrometry. Molecular Plant, 2013, 6, 581-584.	3.9	16
32	Lipid content in 19 brackish and marine microalgae: influence of growth phase, salinity and temperature. Aquatic Ecology, 2013, 47, 415-424.	0.7	32
33	CathaCyc, a Metabolic Pathway Database Built from Catharanthus roseus RNA-Seq Data. Plant and Cell Physiology, 2013, 54, 673-685.	1.5	116
34	Metabolic Engineering of Plant Secondary Products: Which Way Forward?. Current Pharmaceutical Design, 2013, 19, 5622-5639.	0.9	58
35	Plant Cells as Pharmaceutical Factories. Current Pharmaceutical Design, 2013, 19, 5640-5660.	0.9	55
36	In-depth proteome mining of culturedCatharanthus roseuscells identifies candidate proteins involved in the synthesis and transport of secondary metabolites. Proteomics, 2012, 12, 3536-3547.	1.3	30

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37	Differential patterns of dehydroabietic acid biotransformation by Nicotiana tabacum and Catharanthus roseus cells. Journal of Biotechnology, 2012, 157, 287-294.	1.9	14
38	Production of tropane alkaloids in diploid and tetraploid plants and in vitro hairy root cultures of Egyptian henbane (Hyoscyamus muticus L.). Plant Cell, Tissue and Organ Culture, 2012, 110, 35-44.	1.2	84
39	Jasmonate signaling involves the abscisic acid receptor PYL4 to regulate metabolic reprogramming in Arabidopsis and tobacco. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5891-5896.	3.3	228
40	Drug metabolome of the Simvastatin formed by human intestinal microbiota in vitro. Molecular BioSystems, 2011, 7, 437-446.	2.9	44
41	Vacuolar transport of nicotine is mediated by a multidrug and toxic compound extrusion (MATE) transporter in Nicotiana tabacum. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2447-2452.	3.3	255
42	Microbial metabolism of catechin stereoisomers by human faecal microbiota: Comparison of targeted analysis and a non-targeted metabolomics method. Phytochemistry Letters, 2008, 1, 18-22.	0.6	64
43	Production of recombinant allergens in plants. Phytochemistry Reviews, 2008, 7, 539-552.	3.1	14
44	Enzyme-Assisted Processing Increases Antimicrobial and Antioxidant Activity of Bilberry. Journal of Agricultural and Food Chemistry, 2008, 56, 681-688.	2.4	56
45	Tropane and Nicotine Alkaloid Biosynthesis-Novel Approaches Towards Biotechnological Production of Plant-Derived Pharmaceuticals. Current Pharmaceutical Biotechnology, 2007, 8, 203-210.	0.9	42
46	Plants Utilize Isoprene Emission as a Thermotolerance Mechanism. Plant and Cell Physiology, 2007, 48, 1254-1262.	1.5	109
47	Biotransformation of hyoscyamine into scopolamine in transgenic tobacco cell cultures. Journal of Plant Physiology, 2007, 164, 521-524.	1.6	34
48	Metabolic Engineering of the Alkaloid Biosynthesis in Plants: Functional Genomics Approaches. , 2007, , 109-127.		13
49	Weakening ofSalmonellawith Selected Microbial Metabolites of Berry-Derived Phenolic Compounds and Organic Acids. Journal of Agricultural and Food Chemistry, 2007, 55, 3905-3912.	2.4	76
50	Effects of Processing on Availability of Total Plant Sterols, Steryl Ferulates and Steryl Glycosides from Wheat and Rye Bran. Journal of Agricultural and Food Chemistry, 2007, 55, 9059-9065.	2.4	35
51	Functional characterisation of genes involved in pyridine alkaloid biosynthesis in tobacco. Phytochemistry, 2007, 68, 2773-2785.	1.4	54
52	Heterologous expression of Vitreoscilla haemoglobin in barley (Hordeum vulgare). Plant Cell Reports, 2007, 26, 1773-1783.	2.8	11
53	Integrating Transcriptional and Metabolic Profiling to Unravel Secondary Metabolite Biosynthesis in Plants. , 2007, , 135-138.		0
54	Berry Phenolics: Antimicrobial Properties and Mechanisms of Action Against Severe Human Pathogens. Nutrition and Cancer, 2006, 54, 18-32.	0.9	419

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55	Heterologous Expression of Vitreoscilla Hemoglobin (VHb) and Cultivation Conditions Affect the Alkaloid Profile of Hyoscyamus muticus Hairy Roots. Biotechnology Progress, 2006, 22, 350-358.	1.3	30
56	Glycosylated F4 (K88) Fimbrial Adhesin FaeG Expressed in Barley Endosperm Induces ETEC-neutralizing Antibodies in Mice. Transgenic Research, 2006, 15, 359-373.	1.3	44
57	Unintended effects in genetically modified crops: revealed by metabolomics?. Trends in Biotechnology, 2006, 24, 102-104.	4.9	80
58	Development ofin vitroTechniques for the Important Medicinal PlantVeratrum californicum. Planta Medica, 2006, 72, 1142-1148.	0.7	16
59	Gene-to-metabolite networks for terpenoid indole alkaloid biosynthesis in Catharanthus roseus cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5614-5619.	3.3	307
60	Integrating genomics and metabolomics for engineering plant metabolic pathways. Current Opinion in Biotechnology, 2005, 16, 174-179.	3.3	193
61	The action of berry phenolics against human intestinal pathogens. BioFactors, 2005, 23, 243-251.	2.6	75
62	Bioactive berry compounds?novel tools against human pathogens. Applied Microbiology and Biotechnology, 2005, 67, 8-18.	1.7	233
63	In vitro metabolism of anthocyanins by human gut microflora. European Journal of Nutrition, 2005, 44, 133-142.	1.8	390
64	Expression ofVitreoscillaHemoglobin Enhances Growth ofHyoscyamus muticusHairy Root Cultures. Planta Medica, 2005, 71, 48-53.	0.7	21
65	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
66	Interactions between Plant Bioactive Food Ingredients and Intestinal Floraâ€"Effects on Human Health. Bioscience and Microflora, 2004, 23, 67-80.	0.5	6
67	Anatalline and Other Methyl Jasmonate-Inducible Nicotine Alkaloids fromNicotiana tabacumcv. BY-2 Cell Cultures. Planta Medica, 2004, 70, 936-941.	0.7	26
68	Connecting genes to metabolites by a systems biology approach. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9949-9950.	3.3	73
69	Engineering tropane biosynthetic pathway in Hyoscyamus niger hairy root cultures. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6786-6791.	3.3	275
70	Plant cell factories in the post-genomic era: new ways to produce designer secondary metabolites. Trends in Plant Science, 2004, 9, 433-440.	4.3	431
71	Regulation of Secondary Metabolism in Tobacco Cell Cultures. Biotechnology in Agriculture and Forestry, 2004, , 231-249.	0.2	3
72	Blanching and long-term freezing affect various bioactive compounds of vegetables in different ways. Journal of the Science of Food and Agriculture, 2003, 83, 1389-1402.	1.7	181

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73	Comparison of antioxidant activities of onion and garlic extracts by inhibition of lipid peroxidation and radical scavenging activity. Food Chemistry, 2003, 81, 485-493.	4.2	402
74	Secretion of Secondary Metabolites by ATP-Binding Cassette Transporters in Plant Cell Suspension Cultures. Plant Physiology, 2003, 131, 1161-1164.	2.3	58
75	A functional genomics approach toward the understanding of secondary metabolism in plant cells. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8595-8600.	3.3	378
76	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
77	Agrobacterium rhizogenes-Mediated Transformation: Root Cultures as a Source of Alkaloids. Planta Medica, 2002, 68, 859-868.	0.7	273
78	Secondary metabolism in root and callus cultures of Hyoscyamus muticus L.: the relationship between morphological organisation and response to methyl jasmonate. Plant Science, 2002, 163, 563-569.	1.7	36
79	Simultaneous determination of scopolamine, hyoscyamine and littorine in plants and different hairy root clones of Hyoscyamus muticus by micellar electrokinetic chromatography. Phytochemistry, 2000, 54, 517-523.	1.4	51
80	Enhancement of scopolamine production in Hyoscyamus muticus L. hairy root cultures by genetic engineering. Planta, 1999, 208, 545-551.	1.6	161
81	Determination of the main tropane alkaloids from transformed Hyoscyamus muticus plants by capillary zone electrophoresis. Journal of Pharmaceutical and Biomedical Analysis, 1998, 16, 717-722.	1.4	47
82	Effect of growth regulators on transformed root cultures of Hyoscyamus muticus. Journal of Plant Physiology, 1998, 153, 475-481.	1.6	43
83	Somaclonal Variation in Transformed Roots and Protoplast-Derived Hairy Root Clones ofHyoscyamus muticus. Planta Medica, 1998, 64, 37-41.	0.7	45
84	Transgenic crops for improved pharmaceutical products. Field Crops Research, 1996, 45, 57-69.	2.3	60
85	Efficient plant regeneration from hairy root-derived protoplasts of Hyoscyamus muticus. Plant Cell Reports, 1995, 14, 738-42.	2.8	24
86	Virulence of different Agrobacterium strains on hairy root formation of Hyoscyamus muticus. Plant Cell Reports, 1995, 14, 236-40.	2.8	43
87	Effect of nitrogen and sucrose on the primary and secondary metabolism of transformed root cultures of Hyoscyamus muticus. Plant Cell, Tissue and Organ Culture, 1994, 38, 263-272.	1.2	45
88	Effect of nitrogen and sucrose on the primary and secondary metabolism of transformed root cultures of Hyoscyamus muticus. , 1994, , 263-272.		9
89	Spontaneous somatic embryogenesis and plant regeneration from root cultures of Peucedanum palustre. Plant Cell Reports, 1993, 12-12, 453-6.	2.8	4
90	Spontaneous shoot organogenesis and plant regeneration from hairy root cultures of Hyoscyamus muticus. Plant Science, 1991, 78, 129-136.	1.7	67

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91	Analysis of tropane alkaloids with thermospray high-performance liquid chromatographyâ€"mass spectrometry. Biomedical Applications, 1991, 562, 737-744.	1.7	27
92	Somaclonal Variation of Scopolamine Content in Protoplast-Derived Cell Culture Clones ofHyoscyamus muticus. Planta Medica, 1986, 52, 6-12.	0.7	59