

Tomas Macek

List of Publications by Year in descending order

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130
papers

7,220
citations

81434

41
h-index

66518

82
g-index

155
all docs

155
docs citations

155
times ranked

7245
citing authors

#	ARTICLE	IF	CITATIONS
1	Flavonolignans from silymarin modulate antibiotic resistance and virulence in <i>Staphylococcus aureus</i> . <i>Biomedicine and Pharmacotherapy</i> , 2022, 149, 112806.	2.5	8
2	Defying Multidrug Resistance! Modulation of Related Transporters by Flavonoids and Flavonolignans. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 1763-1779.	2.4	46
3	Multidrug Resistance Modulation Activity of Silybin Derivatives and Their Anti-Inflammatory Potential. <i>Antioxidants</i> , 2020, 9, 455.	2.2	31
4	Antioxidant, Anti-Inflammatory, and Multidrug Resistance Modulation Activity of Silychristin Derivatives. <i>Antioxidants</i> , 2019, 8, 303.	2.2	23
5	Recombinant expression of osmotin in barley improves stress resistance and food safety during adverse growing conditions. <i>PLoS ONE</i> , 2019, 14, e0212718.	1.1	9
6	Diversity of root-associated microbial populations of <i>Tamarix parviflora</i> cultivated under various conditions. <i>Applied Soil Ecology</i> , 2018, 125, 264-272.	2.1	16
7	Complete genome sequence of <i>Pseudomonas alcaliphila</i> JAB1 (=DSM 26533), a versatile degrader of organic pollutants. <i>Standards in Genomic Sciences</i> , 2018, 13, 3.	1.5	36
8	Phytoextraction of Heavy Metals: A Promising Tool for Clean-Up of Polluted Environment?. <i>Frontiers in Plant Science</i> , 2018, 9, 1476.	1.7	294
9	The use of phosphomannose isomerase selection system for <i>Agrobacterium</i> -mediated transformation of tobacco and flax aimed for phytoremediation. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2017, 52, 338-345.	0.7	9
10	Secondary compound hypothesis revisited: Selected plant secondary metabolites promote bacterial degradation of cis-1,2-dichloroethylene (cDCE). <i>Scientific Reports</i> , 2017, 7, 8406.	1.6	38
11	New findings in potential applications of tobacco osmotin. <i>Protein Expression and Purification</i> , 2017, 129, 84-93.	0.6	11
12	Bacterial Biotransformation of Pentachlorophenol and Micropollutants Formed during Its Production Process. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 1146.	1.2	25
13	Differential Impacts of Willow and Mineral Fertilizer on Bacterial Communities and Biodegradation in Diesel Fuel Oil-Contaminated Soil. <i>Frontiers in Microbiology</i> , 2016, 7, 837.	1.5	26
14	Plants Rather than Mineral Fertilization Shape Microbial Community Structure and Functional Potential in Legacy Contaminated Soil. <i>Frontiers in Microbiology</i> , 2016, 7, 995.	1.5	43
15	Effects of Secondary Plant Metabolites on Microbial Populations: Changes in Community Structure and Metabolic Activity in Contaminated Environments. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1205.	1.8	102
16	Native Phytoremediation Potential of <i>Urtica dioica</i> for Removal of PCBs and Heavy Metals Can Be Improved by Genetic Manipulations Using Constitutive CaMV 35S Promoter. <i>PLoS ONE</i> , 2016, 11, e0167927.	1.1	27
17	Phytoremediation. , 2016, , .		14
18	Transgenic plants and hairy roots: exploiting the potential of plant species to remediate contaminants. <i>New Biotechnology</i> , 2016, 33, 625-635.	2.4	65

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19	Pseudomonads Role Degradation of Polyaromatic Hydrocarbons in Aerated Sediment. <i>Frontiers in Microbiology</i> , 2015, 6, 1268.	1.5	54
20	The effect of exogenous 24-epibrassinolide on the ecdysteroid content in the leaves of <i>Spinacia oleracea</i> L.. <i>Steroids</i> , 2015, 97, 107-112.	0.8	8
21	Preparation of vectors with metallothionein gene enriched by additional metal binding domain and their transient expression in <i>Nicotiana tabacum</i> . <i>Biologia Plantarum</i> , 2015, 59, 394-398.	1.9	1
22	Bacterial community structure in treated sewage sludge with mesophilic and thermophilic anaerobic digestion. <i>Folia Microbiologica</i> , 2015, 60, 531-539.	1.1	18
23	Antibacterial effect of compounds of peptide nature contained in aqueous extract of <i>Brassica napus</i> and <i>Solanum lycopersicum</i> and <i>Tetragonia tetragonioides</i> leaves. <i>Journal of Microbiology, Biotechnology and Food Sciences</i> , 2015, 04, 427-433.	0.4	2
24	Effect of Chain Elongation on Biological Properties of the Toxin Paralysin ϵ -Alanyl-L-tyrosine. <i>Chemical Biology and Drug Design</i> , 2014, 83, 418-426.	1.5	1
25	Putative P1B-type ATPase from the bacterium <i>Achromobacter xylosoxidans</i> A8 alters Pb ²⁺ /Zn ²⁺ /Cd ²⁺ -resistance and accumulation in <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1338-1343.	1.4	8
26	Characterization of Transgenic Tobacco Plants Containing Bacterial <i>bphc</i> Gene and Study of Their Phytoremediation Ability. <i>International Journal of Phytoremediation</i> , 2014, 16, 937-946.	1.7	15
27	24-Epibrassinolide and 20-hydroxyecdysone affect photosynthesis differently in maize and spinach. <i>Steroids</i> , 2014, 85, 44-57.	0.8	26
28	Bacterial acquisition of hexachlorobenzene-derived carbon in contaminated soil. <i>Chemosphere</i> , 2014, 113, 141-145.	4.2	13
29	Plant secondary metabolite-induced shifts in bacterial community structure and degradative ability in contaminated soil. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 9245-9256.	1.7	56
30	Exogenously applied 20-hydroxyecdysone increases the net photosynthetic rate but does not affect the photosynthetic electron transport or the content of photosynthetic pigments in <i>Tetragonia tetragonioides</i> L.. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 3489-3495.	1.0	9
31	Stable isotope probing in the metagenomics era: A bridge towards improved bioremediation. <i>Biotechnology Advances</i> , 2013, 31, 154-165.	6.0	114
32	Diversity of chlorobiphenyl-metabolizing bacteria and their biphenyl dioxygenases in contaminated sediment. <i>Chemosphere</i> , 2013, 93, 1548-1555.	4.2	28
33	Influence of Root Exudates on the Bacterial Degradation of Chlorobenzoic Acids. <i>Scientific World Journal</i> , The, 2013, 2013, 1-8.	0.8	5
34	Bioremediation of Chlorobenzoic Acids. , 2013, , .		1
35	Metabolites of 2,2-dichlorobiphenyl and 2,6-dichlorobiphenyl in hairy root culture of black nightshade <i>Solanum nigrum</i> SNC-90. <i>Chemosphere</i> , 2012, 89, 383-388.	4.2	16
36	Osmotin, a Pathogenesis-Related Protein. <i>Current Protein and Peptide Science</i> , 2012, 13, 672-681.	0.7	35

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37	Whole-cell MALDI-TOF: Rapid screening method in environmental microbiology. International Biodeterioration and Biodegradation, 2012, 69, 82-86.	1.9	46
38	Cadmium-induced production of phytochelatin and speciation of intracellular cadmium in organs of <i>Linum usitatissimum</i> seedlings. Industrial Crops and Products, 2012, 36, 536-542.	2.5	49
39	Identification of Bacteria Utilizing Biphenyl, Benzoate, and Naphthalene in Long-Term Contaminated Soil. PLoS ONE, 2012, 7, e40653.	1.1	124
40	Potential of Biosorption Technology. , 2011, , 7-17.		22
41	Transgenic Approaches to Improve Phytoremediation of Heavy Metal Polluted Soils. Environmental Pollution, 2011, , 409-438.	0.4	2
42	Matrix-Assisted Laser Desorption Ionization (MALDI)-Time of Flight Mass Spectrometry- and MALDI Biotyper-Based Identification of Cultured Biphenyl-Metabolizing Bacteria from Contaminated Horseradish Rhizosphere Soil. Applied and Environmental Microbiology, 2011, 77, 6858-6866.	1.4	77
43	Expression of osmotin, an antifungal protein from <i>Nicotiana tabacum</i> in <i>Escherichia coli</i> . , 2011, , .		0
44	Removal of 4-chlorobenzoic acid from spiked hydroponic solution by willow trees (<i>Salix viminalis</i>). Environmental Science and Pollution Research, 2010, 17, 1355-1361.	2.7	18
45	Absorption and translocation of polybrominated diphenyl ethers (PBDEs) by plants from contaminated sewage sludge. Chemosphere, 2010, 81, 381-386.	4.2	76
46	Genetically modified plants with improved phytoremediation properties. Journal of Biotechnology, 2010, 150, 118-118.	1.9	0
47	Purification and characterization of antimicrobial peptides from fleshfly <i>Neobellieria bullata</i> . Journal of Biotechnology, 2010, 150, 451-452.	1.9	0
48	Affinity chromatography as the method for brassinosteroid-binding protein isolation. Journal of Biotechnology, 2010, 150, 490-490.	1.9	6
49	Cloning the bacterial <i>bphC</i> gene into <i>Nicotiana tabacum</i> to improve the efficiency of phytoremediation of polychlorinated biphenyls. Bioengineered Bugs, 2010, 1, 419-423.	2.0	16
50	Bacterial Degradation of Polychlorinated Biphenyls. , 2010, , 347-366.		16
51	Approaches for diversity analysis of cultivable and non-cultivable bacteria in real soil. Plant, Soil and Environment, 2009, 55, 389-396.	1.0	18
52	BIODEGRADATION OF PAHS IN LONG-TERM CONTAMINATED SOIL CULTIVATED WITH EUROPEAN WHITE BIRCH (<i>BETULA PENDULA</i>) AND RED MULBERRY (<i>MORUS RUBRA</i>) TREE. International Journal of Phytoremediation, 2009, 11, 65-80.	1.7	11
53	Biphenyl-Metabolizing Bacteria in the Rhizosphere of Horseradish and Bulk Soil Contaminated by Polychlorinated Biphenyls as Revealed by Stable Isotope Probing. Applied and Environmental Microbiology, 2009, 75, 6471-6477.	1.4	102
54	DNA-based stable isotope probing: a link between community structure and function. Science of the Total Environment, 2009, 407, 3611-3619.	3.9	77

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55	Therapeutic application of peptides and proteins: parenteral forever?. Trends in Biotechnology, 2009, 27, 628-635.	4.9	279
56	Genetically modified plants in phytoremediation of heavy metal and metalloid soil and sediment pollution. Biotechnology Advances, 2009, 27, 799-810.	6.0	249
57	Cloning the bacterial <i>bphC</i> gene into <i>Nicotiana tabacum</i> to improve the efficiency of PCB phytoremediation. Biotechnology and Bioengineering, 2009, 102, 29-37.	1.7	57
58	Phyto/rhizoremediation studies using long-term PCB-contaminated soil. Environmental Science and Pollution Research, 2009, 16, 817-829.	2.7	76
59	Isolation and characterization of different plant associated bacteria and their potential to degrade polychlorinated biphenyls. International Biodeterioration and Biodegradation, 2009, 63, 667-672.	1.9	57
60	Transgenic plants to improve rhizoremediation of polychlorinated biphenyls (PCBs). Current Opinion in Biotechnology, 2009, 20, 242-247.	3.3	48
61	Advances in Phytoremediation and Rhizoremediation. Soil Biology, 2009, , 257-277.	0.6	12
62	Determination of content of metallothionein and low molecular mass stress peptides in transgenic tobacco plants. Plant Cell, Tissue and Organ Culture, 2008, 94, 291-298.	1.2	40
63	Novel roles for genetically modified plants in environmental protection. Trends in Biotechnology, 2008, 26, 146-152.	4.9	172
64	Affinity chromatography reveals RuBisCO as an ecdysteroid-binding protein. Steroids, 2008, 73, 1433-1440.	0.8	10
65	The effect of ryegrass (<i>Lolium perenne</i>) on decrease of PAH content in long term contaminated soil. Chemosphere, 2008, 70, 1603-1608.	4.2	95
66	A novel approach to analysis microbial population in PCB-contaminated sediment. Journal of Biotechnology, 2008, 136, S703.	1.9	0
67	Hydroxy-PCBs, Methoxy-PCBs and Hydroxy-Methoxy-PCBs: Metabolites of Polychlorinated Biphenyls Formed In Vitro by Tobacco Cells. Environmental Science & Technology, 2008, 42, 5746-5751.	4.6	45
68	Monitoring Native Vegetation on a Dumpsite of PCB-Contaminated Soil. International Journal of Phytoremediation, 2007, 9, 71-78.	1.7	19
69	The introduction of genetically modified microorganisms designed for rhizoremediation induces changes on native bacteria in the rhizosphere but not in the surrounding soil. ISME Journal, 2007, 1, 215-223.	4.4	53
70	The effect of EDDS chelate and inoculation with the arbuscular mycorrhizal fungus <i>Glomus intraradices</i> on the efficacy of lead phytoextraction by two tobacco clones. Applied Soil Ecology, 2007, 35, 163-173.	2.1	26
71	Biotransformation of PCBs by plants and bacteria – consequences of plant-microbe interactions. European Journal of Soil Biology, 2007, 43, 233-241.	1.4	67
72	Plant metabolites of polychlorinated biphenyls in hairy root culture of black nightshade <i>Solanum nigrum</i> SNC-90. Chemosphere, 2007, 69, 1221-1227.	4.2	71

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73	Transgenic plants for effective phytoremediation of persistent toxic organic pollutants present in the environment. <i>Journal of Biotechnology</i> , 2007, 131, S38.	1.9	9
74	Preparation of transgenic flax with enhanced metal tolerance. <i>Journal of Biotechnology</i> , 2007, 131, S38-S39.	1.9	6
75	Rhizoremediation for decontamination of long-term PCB contaminated soil with focus on microbial diversity. <i>Journal of Biotechnology</i> , 2007, 131, S243.	1.9	3
76	Transformation of PCB degradation products (chlorobenzoic acids) by plant cells. <i>Journal of Biotechnology</i> , 2007, 131, S248.	1.9	1
77	Genetically modified plants with improved properties for phytoremediation purposes. , 2006, , 85-108.		8
78	Polychlorinated Biphenyl (PCB)-Degrading Bacteria Associated with Trees in a PCB-Contaminated Site. <i>Applied and Environmental Microbiology</i> , 2006, 72, 2331-2342.	1.4	247
79	Phytoremediation of Polychlorinated Biphenyls. , 2006, , 143-167.		18
80	Treatment and Containment of Contaminated Sediments. , 2006, , 137-178.		3
81	Arbuscular mycorrhiza decreases cadmium phytoextraction by transgenic tobacco with inserted metallothionein. <i>Plant and Soil</i> , 2005, 272, 29-40.	1.8	64
82	Polychlorinated Biphenyl Rhizoremediation by <i>Pseudomonas fluorescens</i> F113 Derivatives, Using a <i>Sinorhizobium meliloti</i> nod System To Drive bph Gene Expression. <i>Applied and Environmental Microbiology</i> , 2005, 71, 2687-2694.	1.4	146
83	PHYTOREMEDIATION. <i>Annual Review of Plant Biology</i> , 2005, 56, 15-39.	8.6	1,728
84	Influence of arbuscular mycorrhiza on the growth and cadmium uptake of tobacco with inserted metallothionein gene. <i>Applied Soil Ecology</i> , 2005, 29, 209-214.	2.1	27
85	Can tobacco have a potentially beneficial effect to our health?. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2005, 60, 292-9.	0.6	2
86	Two approaches to biological decontamination of groundwater and soil polluted by aromatics-characterization of microbial populations. <i>International Microbiology</i> , 2005, 8, 205-11.	1.1	57
87	Cadmium tolerance and accumulation in transgenic tobacco plants with a yeast metallothionein combined with a polyhistidine tail. <i>International Biodeterioration and Biodegradation</i> , 2004, 54, 233-237.	1.9	37
88	First semi-synthetic preparation of sex pheromones. <i>Green Chemistry</i> , 2004, 6, 305-307.	4.6	26
89	Ability of bacterial biphenyl dioxygenases from <i>Burkholderia</i> sp. LB400 and <i>Comamonas testosteroni</i> B-356 to catalyse oxygenation of ortho-hydroxychlorobiphenyls formed from PCBs by plants. <i>Environmental Pollution</i> , 2004, 127, 41-48.	3.7	42
90	The evaluation of cadmium, zinc and nickel accumulation ability of transgenic tobacco bearing different transgenes. <i>Plant, Soil and Environment</i> , 2004, 50, 513-517.	1.0	32

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91	Phytoremediation of Metals and Inorganic Pollutants. <i>Soil Biology</i> , 2004, , 135-157.	0.6	9
92	Phytoremediation: biological cleaning of a polluted environment. <i>Reviews on Environmental Health</i> , 2004, 19, 63-82.	1.1	8
93	Bacteria Degrading PCBs and CBs Isolated from Long-Term PCB Contaminated Soil. <i>Water, Air and Soil Pollution</i> , 2003, 3, 47-55.	0.8	11
94	Decolorization of RBBR by plant cells and correlation with the transformation of PCBs. <i>Chemosphere</i> , 2002, 49, 739-748.	4.2	19
95	Accumulation of Cadmium by Transgenic Tobacco. <i>Acta Biotechnologica</i> , 2002, 22, 101-106.	1.0	78
96	Enzymes in Plant Metabolism of PCBs and PAHs. <i>Acta Biotechnologica</i> , 2002, 22, 35-41.	1.0	57
97	Advances in Phytoremediation: Phytotransformation. , 2002, , 115-140.		6
98	Title is missing!. <i>Biotechnology Letters</i> , 2001, 23, 1355-1359.	1.1	29
99	Some Aspects of PCB Metabolism by Horseradish Cells. <i>International Journal of Phytoremediation</i> , 2001, 3, 401-414.	1.7	17
100	Exploitation of plants for the removal of organics in environmental remediation. <i>Biotechnology Advances</i> , 2000, 18, 23-34.	6.0	482
101	Title is missing!. <i>Plant and Soil</i> , 2000, 225, 109-115.	1.8	62
102	Synthesis of (20S)-2 β ,3 β -Dihydroxy-6-oxo-7-oxa-7a-homo-5 β -pregnane-20-carboxylic Acid as a Brassinosteroid Part of Ligands for Binding to Affinity Chromatography Carriers. <i>Collection of Czechoslovak Chemical Communications</i> , 2000, 65, 1754-1761.	1.0	14
103	Heavy Metal-Binding Peptides and Proteins in Plants. A Review. <i>Collection of Czechoslovak Chemical Communications</i> , 1999, 64, 1057-1086.	1.0	53
104	Correlation of PCB Transformation by Plant Tissue Cultures with Their Morphology and Peroxidase Activity Changes. <i>Collection of Czechoslovak Chemical Communications</i> , 1999, 64, 1497-1509.	1.0	27
105	Introduction of Green Plants for the Control of Metals and Organics in Environmental Remediation. , 1998, , 71-84.		13
106	Perspectives in biodegradation of alkanes and PCBs. <i>Pure and Applied Chemistry</i> , 1997, 69, 2357-2370.	0.9	23
107	Analytical Procedure for the Estimation of Polychlorinated Biphenyl Transformation by Plant Tissue Cultures. <i>Analytical Communications</i> , 1997, 34, 287-290.	2.2	14
108	Evaluation of the relation between the endogenous scopoletin and scopolin level of some solanaceous and papaver cell suspensions and their ability to bioconvert scopoletin to scopolin. <i>Plant Science</i> , 1997, 123, 205-210.	1.7	20

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109	Degradation of polychlorinated biphenyls by hairy root culture of <i>Solanum nigrum</i> . <i>Biotechnology Letters</i> , 1997, 19, 787-790.	1.1	52
110	Biodegradation of polychlorinated biphenyls by plant cells. <i>International Biodeterioration and Biodegradation</i> , 1997, 39, 317-325.	1.9	75
111	Biotransformation of Chanoclavine by <i>Euphorbia calyptata</i> Cell Culture. <i>Journal of Natural Products</i> , 1996, 59, 481-484.	1.5	3
112	Diethylpyrocarbonate—An effective agent for the sterilization of different types of nutrient media. <i>Plant Cell, Tissue and Organ Culture</i> , 1995, 43, 185-190.	1.2	3
113	Biotransformation of ergot alkaloids by plant cell cultures with high peroxidase activity. <i>Biotechnology Letters</i> , 1995, 17, 1213-1218.	1.1	13
114	Scopoletin-glucosyltransferase Activity from <i>Duboisia myoporoides</i> ; Improvement of Cultivation Conditions and Crude Extract Preparation Procedure. <i>Journal of Plant Physiology</i> , 1995, 146, 503-507.	1.6	6
115	Chemical sterilization of nutrient media for plant cell cultures using diethylpyrocarbonate. <i>Biotechnology Letters</i> , 1994, 8, 885-888.	0.5	3
116	Accumulation of cadmium by hairy-root cultures of <i>Solanum nigrum</i> . <i>Biotechnology Letters</i> , 1994, 16, 621-624.	1.1	41
117	The rate of ecdysteroid production in suspension cultured cells of the fern <i>Pteridium aquilinum</i> . <i>Phytochemistry</i> , 1994, 35, 651-654.	1.4	17
118	Bioreductions by <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 1992, 26, 173-181.	1.9	8
119	Reduction of 2-substituted cyclohexanones by <i>Saccharomyces cerevisiae</i> under aerobic and anaerobic conditions. <i>Enzyme and Microbial Technology</i> , 1992, 14, 197-202.	1.6	15
120	Galactose oxidase production by immobilized cells of <i>Dactylium dendroides</i> . <i>Biotechnology Letters</i> , 1992, 6, 309-312.	0.5	0
121	Ferulic acid conjugates and betacyanins from cell cultures of <i>Beta vulgaris</i> . <i>Phytochemistry</i> , 1991, 30, 3261-3265.	1.4	77
122	Production of ecdysteroids by plant cell culture of <i>Pteridium aquilinum</i> . <i>Biotechnology Letters</i> , 1990, 12, 727-730.	1.1	11
123	Stereochemistry of the Enzymatic Reduction of 2-(4-Methoxybenzyl)-1-Cyclohexanone by <i>Solanum Aviculare</i> Cells in vitro. <i>Biocatalysis</i> , 1989, 2, 265-272.	0.9	10
124	Plant cells immobilized in pectate gel: Biotransformation of verbenol isomers by <i>Solanum aviculare</i> free and immobilized cells. <i>Biotechnology Letters</i> , 1989, 3, 411-414.	0.5	9
125	By <i>Dioscorea deltoidea</i> free and immobilized plant cells. <i>Biotechnology Letters</i> , 1989, 11, 243-248.	1.1	11
126	Biotransformation of 2-(4-methoxybenzyl)-l-cyclohexanone by cell cultures of <i>Solanum aviculare</i> . <i>Biologia Plantarum</i> , 1987, 29, 88-93.	1.9	7

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127	Biotransformation of 2-(4-methoxybenzyl)-1-cyclohexanone by means of <i>Saccharomyces cerevisiae</i> . Collection of Czechoslovak Chemical Communications, 1987, 52, 2326-2337.	1.0	26
128	Glucosidation of digitoxigenin by tissue culture of <i>Digitalis lanata</i> . Biotechnology Letters, 1986, 8, 859-862.	1.1	3
129	Occurrence of betulinic acid in different callus cultures of <i>Solanum aviculare</i> . Phytochemistry, 1985, 24, 3064-3065.	1.4	8
130	The Occurrence of the Amino Acid Nicotianamine in Plants and Microorganisms. A Reinvestigation. Biochemie Und Physiologie Der Pflanzen, 1985, 180, 557-563.	0.5	84