

Jitka Frbortov

List of Publications by Citations

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29
papers

1,077
citations

15
h-index

29
g-index

29
ext. papers

1,261
ext. citations

5
avg, IF

3.94
L-index

#	Paper	IF	Citations
29	Evolution of cytokinin biosynthesis and degradation. <i>Journal of Experimental Botany</i> , 2011 , 62, 2431-52	7	259
28	Biochemical Characterization of Cytokinin Oxidases/Dehydrogenases from <i>Arabidopsis thaliana</i> Expressed in <i>Nicotiana tabacum</i> L.. <i>Journal of Plant Growth Regulation</i> , 2007 , 26, 255-267	4.7	121
27	Acetic acid bacteria: A group of bacteria with versatile biotechnological applications. <i>Biotechnology Advances</i> , 2015 , 33, 1260-71	17.8	88
26	Cytokinin oxidase/dehydrogenase genes in barley and wheat: cloning and heterologous expression. <i>FEBS Journal</i> , 2004 , 271, 3990-4002		77
25	Catalytic reaction of cytokinin dehydrogenase: preference for quinones as electron acceptors. <i>Biochemical Journal</i> , 2004 , 380, 121-30	3.8	67
24	Vacuolar and cytosolic cytokinin dehydrogenases of <i>Arabidopsis thaliana</i> : heterologous expression, purification and properties. <i>Phytochemistry</i> , 2010 , 71, 1970-8	4	64
23	Parasitic fungus <i>Claviceps</i> as a source for biotechnological production of ergot alkaloids. <i>Biotechnology Advances</i> , 2013 , 31, 79-89	17.8	47
22	Tissue localization of cytokinin dehydrogenase in maize: possible involvement of quinone species generated from plant phenolics by other enzymatic systems in the catalytic reaction. <i>Plant and Cell Physiology</i> , 2005 , 46, 716-28	4.9	43
21	Biochemical characterization of the maize cytokinin dehydrogenase family and cytokinin profiling in developing maize plantlets in relation to the expression of cytokinin dehydrogenase genes. <i>Plant Physiology and Biochemistry</i> , 2014 , 74, 283-93	5.4	33
20	Degradation of cytokinins by maize cytokinin dehydrogenase is mediated by free radicals generated by enzymatic oxidation of natural benzoxazinones. <i>Plant Journal</i> , 2010 , 61, 467-81	6.9	30
19	Intramolecular electron transport in quinoprotein alcohol dehydrogenase of <i>Acetobacter methanolicus</i> : a redox-titration study. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998 , 1363, 24-34	4.6	30
18	Trace enrichment of chlorinated phenols from drinking water on chemically bonded sorbents for high-performance liquid chromatography. <i>Analyst, The</i> , 1994 , 119, 1519-23	5	24
17	Kinetic and chemical analyses of the cytokinin dehydrogenase-catalysed reaction: correlations with the crystal structure. <i>Biochemical Journal</i> , 2006 , 398, 113-24	3.8	21
16	Cytokinin metabolism in maize: Novel evidence of cytokinin abundance, interconversions and formation of a new trans-zeatin metabolic product with a weak anticytokinin activity. <i>Plant Science</i> , 2016 , 247, 127-37	5.3	20
15	Functional expression and purification of cytokinin dehydrogenase from <i>Arabidopsis thaliana</i> (<i>AtCKX2</i>) in <i>Saccharomyces cerevisiae</i> . <i>Biologia Plantarum</i> , 2007 , 51, 673-682	2.1	17
14	New insights into auxin metabolism in <i>Bradyrhizobium japonicum</i> . <i>Research in Microbiology</i> , 2018 , 169, 313-323	4	15
13	Light influences cytokinin biosynthesis and sensing in <i>Nostoc</i> (cyanobacteria). <i>Journal of Phycology</i> , 2017 , 53, 703-714	3	14

12	Biochemical Characterization of Putative Adenylate Dimethylallyltransferase and Cytokinin Dehydrogenase from <i>Nostoc</i> sp. PCC 7120. <i>PLoS ONE</i> , 2015 , 10, e0138468	3-7	14
11	Xanthine dehydrogenase of pea seedlings: a member of the plant molybdenum oxidoreductase family. <i>Plant Physiology and Biochemistry</i> , 2002 , 40, 393-400	5-4	14
10	PqqE from <i>Methylobacterium extorquens</i> AM1: a radical S-adenosyl-L-methionine enzyme with an unusual tolerance to oxygen. <i>Journal of Biochemistry</i> , 2016 , 159, 87-99	3-1	12
9	Quinoprotein Alcohol Dehydrogenase of Acetic Acid Bacteria: Kinetic Study on the Enzyme Purified from <i>Acetobacter methanolicus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1997 , 61, 459-465	2-1	12
8	Effect of growth substrates on formation of alcohol dehydrogenase in <i>Acetobacter methanolicus</i> and <i>Acetobacter aceti</i> . <i>Journal of Bioscience and Bioengineering</i> , 1997 , 83, 21-25		12
7	Characterization of auxiliary iron-sulfur clusters in a radical S-adenosylmethionine enzyme PqqE from AM1. <i>FEBS Open Bio</i> , 2017 , 7, 1864-1879	2-7	10
6	Metabolism of plant hormones cytokinins and their function in signaling, cell differentiation and plant development. <i>Studies in Natural Products Chemistry</i> , 2008 , 203-264	1-5	10
5	Determination of Chlorophenols in Soils by a Method Involving Alkaline Extraction and Solid-phase Preconcentration Prior to High-performance Liquid Chromatography. <i>Bioscience, Biotechnology and Biochemistry</i> , 1995 , 59, 1930-1932	2-1	8
4	An improved in vivo deuterium labeling method for measuring the biosynthetic rate of cytokinins. <i>Molecules</i> , 2010 , 15, 9214-29	4-8	5
3	Overexpression of Trp-related genes in <i>Claviceps purpurea</i> leading to increased ergot alkaloid production. <i>New Biotechnology</i> , 2021 , 61, 69-79	6-4	4
2	Function of plant defense secondary metabolite in cytokinin degradation. <i>Plant Signaling and Behavior</i> , 2010 , 5, 523-5	2-5	3
1	Biochemical and Structural Aspects of Cytokinin Biosynthesis and Degradation in Bacteria. <i>Microorganisms</i> , 2021 , 9,	4-9	3