

Ondřej Pláhal

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

3,489
citations

411340

20
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466096

32
g-index

35
all docs

35
docs citations

35
times ranked

5397
citing authors

#	ARTICLE	IF	CITATIONS
1	New Water-Soluble Cytokinin Derivatives and Their Beneficial Impact on Barley Yield and Photosynthesis. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 7288-7301.	2.4	2
2	The Anti-Senescence Activity of Cytokinin Arabinosides in Wheat and Arabidopsis Is Negatively Correlated with Ethylene Production. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8109.	1.8	9
3	Cytokinin fluoroprobe reveals multiple sites of cytokinin perception at plasma membrane and endoplasmic reticulum. <i>Nature Communications</i> , 2020, 11, 4285.	5.8	64
4	Cell-surface receptors enable perception of extracellular cytokinins. <i>Nature Communications</i> , 2020, 11, 4284.	5.8	47
5	Aromatic Cytokinin Arabinosides Promote PAMP-like Responses and Positively Regulate Leaf Longevity. <i>ACS Chemical Biology</i> , 2020, 15, 1949-1963.	1.6	22
6	Design, synthesis and perception of fluorescently labeled isoprenoid cytokinins. <i>Phytochemistry</i> , 2018, 150, 1-11.	1.4	7
7	Shifting the limits in wheat research and breeding using a fully annotated reference genome. <i>Science</i> , 2018, 361, .	6.0	2,424
8	The Root Growth-Regulating Brevicompanine Natural Products Modulate the Plant Circadian Clock. <i>ACS Chemical Biology</i> , 2017, 12, 1466-1471.	1.6	9
9	Light influences cytokinin biosynthesis and sensing in <i>Nostoc</i> (cyanobacteria). <i>Journal of Phycology</i> , 2017, 53, 703-714.	1.0	19
10	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, 127-137.	1.7	25
11	Maize cytokinin dehydrogenase isozymes are localized predominantly to the vacuoles. <i>Plant Physiology and Biochemistry</i> , 2016, 104, 114-124.	2.8	11
12	Transgenic barley overexpressing a cytokinin dehydrogenase gene shows greater tolerance to drought stress. <i>New Biotechnology</i> , 2016, 33, 692-705.	2.4	117
13	C2-substituted aromatic cytokinin sugar conjugates delay the onset of senescence by maintaining the activity of the photosynthetic apparatus. <i>Phytochemistry</i> , 2016, 122, 22-33.	1.4	20
14	Identification of AHK2- and AHK3-like cytokinin receptors in Brassica napus reveals two subfamilies of AHK2 orthologues. <i>Journal of Experimental Botany</i> , 2015, 66, 339-353.	2.4	26
15	Cyanide hydratase from <i>Aspergillus niger</i> K10: Overproduction in <i>Escherichia coli</i> , purification, characterization and use in continuous cyanide degradation. <i>Process Biochemistry</i> , 2014, 49, 445-450.	1.8	23
16	Subcellular localization of maize cytokinin dehydrogenases using heterologous expression in <i>Arabidopsis thaliana</i> Ler cell suspension cultures. <i>New Biotechnology</i> , 2014, 31, S184-S185.	2.4	0
17	Phenyl-Adenine, Identified in a LIGHT-DEPENDENT SHORT HYPOCOTYLS4-Assisted Chemical Screen, Is a Potent Compound for Shoot Regeneration through the Inhibition of CYTOKININ OXIDASE/DEHYDROGENASE Activity. <i>Plant Physiology</i> , 2013, 161, 1229-1241.	2.3	26
18	Improvement of stress tolerance in plants by genetic manipulation of mitogen-activated protein kinases. <i>Biotechnology Advances</i> , 2013, 31, 118-128.	6.0	124

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19	N9-substituted aromatic cytokinins with negligible side effects on root development are an emerging tool for in vitro culturing. <i>Plant Signaling and Behavior</i> , 2013, 8, e24392.	1.2	21
20	<scp>NITRILASE</scp>1 regulates the exit from proliferation, genome stability and plant development. <i>New Phytologist</i> , 2013, 198, 685-698.	3.5	23
21	Plant Aurora kinases play a role in maintenance of primary meristems and control of endoreduplication. <i>New Phytologist</i> , 2012, 193, 590-604.	3.5	56
22	Novel Cytokinin Derivatives Do Not Show Negative Effects on Root Growth and Proliferation in Submicromolar Range. <i>PLoS ONE</i> , 2012, 7, e39293.	1.1	60
23	N9-Substituted N6-[(3-methylbut-2-en-1-yl)amino]purine derivatives and their biological activity in selected cytokinin bioassays. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 7244-7251.	1.4	23
24	A nodulin/glutamine synthetase-like fusion protein is implicated in the regulation of root morphogenesis and in signalling triggered by flagellin. <i>Planta</i> , 2011, 234, 459-476.	1.6	34
25	Heterologous expression, purification and characterization of nitrilase from <i>Aspergillus niger</i> K10. <i>BMC Biotechnology</i> , 2011, 11, 2.	1.7	27
26	Characteristics of <i>Gloeophyllum trabeum</i> Alcohol Oxidase, an Extracellular Source of H ₂ O ₂ in Brown Rot Decay of Wood. <i>Applied and Environmental Microbiology</i> , 2007, 73, 6241-6253.	1.4	114
27	Large Propeptides of Fungal β -N-Acetylhexosaminidases Are Novel Enzyme Regulators That Must Be Intracellularly Processed to Control Activity, Dimerization, and Secretion into the Extracellular Environment. <i>Biochemistry</i> , 2007, 46, 2719-2734.	1.2	23
28	Structure of the dimeric N-glycosylated form of fungal β -N-acetylhexosaminidase revealed by computer modeling, vibrational spectroscopy, and biochemical studies. <i>BMC Structural Biology</i> , 2007, 7, 32.	2.3	24
29	Purification and characterization of a nitrilase from <i>Aspergillus niger</i> K10. <i>Applied Microbiology and Biotechnology</i> , 2006, 73, 567-575.	1.7	76
30	The Isoforms of Rat Natural Killer Cell Receptor NKR-P1 Display a Distinct Binding of Complex Saccharide Ligands - RETRACTED. <i>Collection of Czechoslovak Chemical Communications</i> , 2004, 69, 631-644.	1.0	7
31	Enzymatic Discrimination of 2-Acetamido-2-deoxy-D-mannopyranose-Containing Disaccharides Using β -N-Acetylhexosaminidases. <i>Advanced Synthesis and Catalysis</i> , 2003, 345, 735-742.	2.1	20