

Karel Dolezal

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171
papers

6,659
citations

41
h-index

77
g-index

192
ext. papers

8,024
ext. citations

5.2
avg, IF

5.53
L-index

#	Paper	IF	Citations
171	TAA1-mediated auxin biosynthesis is essential for hormone crosstalk and plant development. <i>Cell</i> , 2008 , 133, 177-91	56.2	808
170	Auxin regulation of cytokinin biosynthesis in <i>Arabidopsis thaliana</i> : a factor of potential importance for auxin-cytokinin-regulated development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 8039-44	11.5	420
169	<i>Arabidopsis</i> KNOX1 proteins activate cytokinin biosynthesis. <i>Current Biology</i> , 2005 , 15, 1566-71	6.3	384
168	Hormonal control of the shoot stem-cell niche. <i>Nature</i> , 2010 , 465, 1089-92	50.4	343
167	Cytokinin regulation of auxin synthesis in <i>Arabidopsis</i> involves a homeostatic feedback loop regulated via auxin and cytokinin signal transduction. <i>Plant Cell</i> , 2010 , 22, 2956-69	11.6	200
166	Cytokinin signaling regulates cambial development in poplar. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 20032-7	11.5	189
165	Cytokinin profiling in plant tissues using ultra-performance liquid chromatography-electrospray tandem mass spectrometry. <i>Phytochemistry</i> , 2008 , 69, 2214-24	4	180
164	Quantitative analysis of cytokinins in plants by liquid chromatography–single-quadrupole mass spectrometry. <i>Analytica Chimica Acta</i> , 2003 , 480, 207-218	6.6	139
163	Optimizing the micropropagation protocol for the endangered <i>Aloe polyphylla</i> : can meta-topolin and its derivatives serve as replacement for benzyladenine and zeatin?. <i>Plant Cell, Tissue and Organ Culture</i> , 2007 , 90, 15-23	2.7	125
162	Topolins: A panacea to plant tissue culture challenges?. <i>Plant Cell, Tissue and Organ Culture</i> , 2012 , 108, 1-16	2.7	123
161	An alternative cytokinin biosynthesis pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 14778-83	11.5	119
160	A new approach for cytokinin isolation from <i>Arabidopsis</i> tissues using miniaturized purification: pipette tip solid-phase extraction. <i>Plant Methods</i> , 2012 , 8, 17	5.8	115
159	Preparation and biological activity of 6-benzylaminopurine derivatives in plants and human cancer cells. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 875-84	3.4	111
158	Phytohormones and polyamines regulate plant stress responses by altering GABA pathway. <i>New Biotechnology</i> , 2019 , 48, 53-65	6.4	105
157	Cell-Type-Specific Cytokinin Distribution within the <i>Arabidopsis</i> Primary Root Apex. <i>Plant Cell</i> , 2015 , 27, 1955-67	11.6	102
156	Chemically induced expression of the rolC-encoded β -glucosidase in transgenic tobacco plants and analysis of cytokinin metabolism: rolC does not hydrolyze endogenous cytokinin glucosides in planta. <i>Plant Journal</i> , 1996 , 10, 33-46	6.9	93
155	An intrinsic microRNA timer regulates progressive decline in shoot regenerative capacity in plants. <i>Plant Cell</i> , 2015 , 27, 349-60	11.6	87

154	Preparation, biological activity and endogenous occurrence of N6-benzyladenosines. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 3737-47	3.4	86
153	Derivatization for LC-electrospray ionization-MS: a tool for improving reversed-phase separation and ESI responses of bases, ribosides, and intact nucleotides. <i>Analytical Chemistry</i> , 2004 , 76, 2869-77	7.8	84
152	Ubiquitin lysine 63 chain forming ligases regulate apical dominance in Arabidopsis. <i>Plant Cell</i> , 2007 , 19, 1898-911	11.6	80
151	Novel BAP degradation pathway during adventitious caulogenesis in Pinus pinea L. cotyledons. <i>BMC Proceedings</i> , 2011 , 5,	2.3	78
150	Phytohormone targeting in plant tissues. <i>BMC Proceedings</i> , 2011 , 5,	2.3	78
149	The role of topolins in micropropagation and somaclonal variation of banana cultivars Williams and Grand Naine (Musa spp. AAA). <i>Plant Cell, Tissue and Organ Culture</i> , 2008 , 95, 373-379	2.7	77
148	Identification of new aromatic cytokinins in Arabidopsis thaliana and Populus x canadensis leaves by LC-(+)ESI-MS and capillary liquid chromatography/frit-fast atom bombardment mass spectrometry. <i>Physiologia Plantarum</i> , 2003 , 117, 579-590	4.6	73
147	Influence of mycorrhizae and Rhizobium on cytokinin content in drought-stressed alfalfa. <i>Journal of Experimental Botany</i> , 1995 , 46, 1543-1549	7	69
146	Preparation, physicochemical properties and biological activity of copper(II) complexes with 6-(2-chlorobenzylamino)purine (HL1) or 6-(3-chlorobenzylamino)purine (HL2). The single-crystal X-ray structure of. <i>Journal of Inorganic Biochemistry</i> , 2001 , 84, 23-32	4.2	65
145	Anticancer activity of natural cytokinins: a structure-activity relationship study. <i>Phytochemistry</i> , 2010 , 71, 1350-9	4	63
144	Role of Cytokinins in Senescence, Antioxidant Defence and Photosynthesis. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	63
143	Novel potent inhibitors of A. thaliana cytokinin oxidase/dehydrogenase. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 9268-75	3.4	59
142	Volatile compounds emitted by diverse phytopathogenic microorganisms promote plant growth and flowering through cytokinin action. <i>Plant, Cell and Environment</i> , 2016 , 39, 2592-2608	8.4	59
141	Synthesis, characterization and biological activity of ring-substituted 6-benzylamino-9-tetrahydropyran-2-yl and 9-tetrahydrofuran-2-ylpurine derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 1938-47	3.4	55
140	Assessment of the role of meta-topolins on in vitro produced phenolics and acclimatization competence of micropropagated Williams banana. <i>Acta Physiologiae Plantarum</i> , 2012 , 34, 2265-2273	2.6	53
139	Cytotoxic activities of several geranyl-substituted flavanones. <i>Journal of Natural Products</i> , 2010 , 73, 568-73	7.3	52
138	Bioactive molecules derived from smoke and seaweed Ecklonia maxima showing phytohormone-like activity in Spinacia oleracea L. <i>New Biotechnology</i> , 2019 , 48, 83-89	6.4	48
137	Solving the problem of shoot-tip necrosis in Harpagophytum procumbens by changing the cytokinin types, calcium and boron concentrations in the medium. <i>South African Journal of Botany</i> , 2009 , 75, 122-127	12.7	48

136	Evidence of phytohormones and phenolic acids variability in garden-waste-derived vermicompost leachate, a well-known plant growth stimulant. <i>Plant Growth Regulation</i> , 2015 , 75, 483-492	3.2	44
135	Changes in endogenous cytokinin profiles in micropropagated <i>Harpagophytum procumbens</i> in relation to shoot-tip necrosis and cytokinin treatments. <i>Plant Growth Regulation</i> , 2011 , 63, 105-114	3.2	44
134	Modulation of the hormone setting by <i>Rhodococcus fascians</i> results in ectopic KNOX activation in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2008 , 146, 1267-81	6.6	44
133	Novel cytokinin derivatives do not show negative effects on root growth and proliferation in submicromolar range. <i>PLoS ONE</i> , 2012 , 7, e39293	3.7	44
132	Physiological role of phenolic biostimulants isolated from brown seaweed <i>Ecklonia maxima</i> on plant growth and development. <i>Planta</i> , 2015 , 241, 1313-24	4.7	42
131	Metal complexes as anticancer agents 2. Iron(III) and copper(II) bio-active complexes with N6-benzylaminopurine derivatives. <i>Inorganica Chimica Acta</i> , 2001 , 323, 119-129	2.7	41
130	Antioxidant and phenolic acid profiles of tissue cultured and acclimatized <i>Merwillia plumbea</i> plantlets in relation to the applied cytokinins. <i>Journal of Plant Physiology</i> , 2013 , 170, 1303-8	3.6	39
129	Cytokinin receptor antagonists derived from 6-benzylaminopurine. <i>Phytochemistry</i> , 2010 , 71, 823-30	4	39
128	Physiological effects of a novel aromatic cytokinin analogue in micropropagated <i>Aloe arborescens</i> and <i>Harpagophytum procumbens</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2014 , 116, 17-26	2.7	37
127	Photosynthetic responses of lettuce to downy mildew infection and cytokinin treatment. <i>Plant Physiology and Biochemistry</i> , 2010 , 48, 716-23	5.4	36
126	CHANGES IN ENDOGENOUS CYTOKININ CONCENTRATIONS IN CHLORELLA (CHLOROPHYCEAE) IN RELATION TO LIGHT AND THE CELL CYCLE(1). <i>Journal of Phycology</i> , 2011 , 47, 291-301	3	35
125	Precolumn derivatization and capillary liquid chromatographic/frit-fast atom bombardment mass spectrometric analysis of cytokinins in <i>Arabidopsis thaliana</i> . <i>Journal of Mass Spectrometry</i> , 1998 , 33, 892-902	2.2	34
124	Mixed ligand complexes of platinum(II) and palladium(II) with cytokinin-derived compounds Bohemine and Olomoucine: X-ray structure of [Pt(BohH ⁺ -N7)Cl(3)].9/5H ₂ O [Boh=6-(benzylamino)-2-[(3-(hydroxypropyl)-amino]-9-isopropylpurine, Bohemine]. <i>Journal of Inorganic Biochemistry</i> , 2003 , 94, 307-16	4.2	33
123	Characterization of Biostimulant Mode of Action Using Novel Multi-Trait High-Throughput Screening of Germination and Rosette Growth. <i>Frontiers in Plant Science</i> , 2018 , 9, 1327	6.2	33
122	Micropropagation of Wild Service Tree (<i>Sorbus torminalis</i> [L.] Crantz): The Regulative Role of Different Aromatic Cytokinins During Organogenesis. <i>Journal of Plant Growth Regulation</i> , 2009 , 28, 341-348	4.7	32
121	N9-substituted derivatives of kinetin: effective anti-senescence agents. <i>Phytochemistry</i> , 2011 , 72, 821-314	4	30
120	<i>Arabidopsis</i> Responds to <i>Alternaria alternata</i> Volatiles by Triggering Plastid Phosphoglucose Isomerase-Independent Mechanisms. <i>Plant Physiology</i> , 2016 , 172, 1989-2001	6.6	30
119	Plant regeneration and biochemical accumulation of hydroxybenzoic and hydroxycinnamic acid derivatives in <i>Hypoxis hemerocallidea</i> organ and callus cultures. <i>Plant Science</i> , 2014 , 227, 157-64	5.3	29

118	Cytokinin fluoroprobe reveals multiple sites of cytokinin perception at plasma membrane and endoplasmic reticulum. <i>Nature Communications</i> , 2020 , 11, 4285	17.4	29
117	Protective cytokinin action switches to damaging during senescence of detached wheat leaves in continuous light. <i>Physiologia Plantarum</i> , 2006 , 126, 257-267	4.6	27
116	The effects of novel synthetic cytokinin derivatives and endogenous cytokinins on the in vitro growth responses of hemp (<i>Cannabis sativa</i> L.) explants. <i>Plant Cell, Tissue and Organ Culture</i> , 2019 , 139, 381-394	2.7	26
115	Antimicrobial, Anthelmintic Activities and Characterisation of Functional Phenolic Acids of <i>Achyranthes aspera</i> Linn.: A Medicinal Plant Used for the Treatment of Wounds and Ringworm in East Africa. <i>Frontiers in Pharmacology</i> , 2015 , 6, 274	5.6	26
114	Batch immunoextraction method for efficient purification of aromatic cytokinins. <i>Journal of Chromatography A</i> , 2005 , 1100, 116-25	4.5	26
113	Seaweed-Derived Biostimulant (Kelpak [®]) Influences Endogenous Cytokinins and Bioactive Compounds in Hydroponically Grown <i>Eucomis autumnalis</i> . <i>Journal of Plant Growth Regulation</i> , 2016 , 35, 151-162	4.7	25
112	Synthesis, characterization and in vitro cytotoxicity of Co(II) complexes with N6-substituted adenine derivatives: X-ray structures of 6-(4-chlorobenzylamino)purin-di-ium diperchlorate dihydrate and [Co6(EL6)4Cl8(DMSO)10]·4DMSO. <i>Polyhedron</i> , 2006 , 25, 1421-1432	2.7	24
111	Cell-surface receptors enable perception of extracellular cytokinins. <i>Nature Communications</i> , 2020 , 11, 4284	17.4	24
110	Synthesis of aromatic cytokinins for plant biotechnology. <i>New Biotechnology</i> , 2016 , 33, 614-624	6.4	23
109	How does exogenously applied cytokinin type affect growth and endogenous cytokinins in micropropagated <i>Merwillia plumbea</i> ?. <i>Plant Cell, Tissue and Organ Culture</i> , 2014 , 118, 245-256	2.7	23
108	A novel inhibitor of cytokinin degradation (INCYDE) influences the biochemical parameters and photosynthetic apparatus in NaCl-stressed tomato plants. <i>Planta</i> , 2014 , 240, 877-89	4.7	21
107	Determination of Mineral Constituents, Phytochemicals and Antioxidant Qualities of , Compared to and. <i>Frontiers in Chemistry</i> , 2017 , 5, 128	5	20
106	Microwave-Assisted Synthesis of Phenylpropanoids and Coumarins: Total Synthesis of Osthol. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 5204-5213	3.2	20
105	Physiological and biochemical effects of a tetrahydropyranyl-substituted meta-topolin in micropropagated <i>Merwillia plumbea</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2015 , 121, 579-590	2.7	19
104	Conservation strategy for <i>Pelargonium sidoides</i> DC: phenolic profile and pharmacological activity of acclimatized plants derived from tissue culture. <i>Journal of Ethnopharmacology</i> , 2013 , 149, 557-61	5	19
103	Plastidic phosphoglucose isomerase is an important determinant of starch accumulation in mesophyll cells, growth, photosynthetic capacity, and biosynthesis of plastidic cytokinins in <i>Arabidopsis</i> . <i>PLoS ONE</i> , 2015 , 10, e0119641	3.7	19
102	The role of cytokinins during micropropagation of wych elm. <i>Biologia Plantarum</i> , 2013 , 57, 174-178	2.1	19
101	Plant responses to fungal volatiles involve global posttranslational thiol redox proteome changes that affect photosynthesis. <i>Plant, Cell and Environment</i> , 2019 , 42, 2627-2644	8.4	18

100	Synthesis, characterization and antitumour activity of copper(II) 6-(4-chlorobenzylamino)purine complexes. X-ray structure of 6-(4-chloro-benzylamino)purinium perchlorate. <i>Transition Metal Chemistry</i> , 2002 , 27, 580-586	2.1	18
99	Phenolic profiles, antioxidant capacity, and acetylcholinesterase inhibitory activity of eight South African seaweeds. <i>Journal of Applied Phycology</i> , 2015 , 27, 1599-1605	3.2	17
98	Preparation and Standardisation of Smoke-Water for Seed Germination and Plant Growth Stimulation. <i>Journal of Plant Growth Regulation</i> , 2020 , 39, 338-345	4.7	17
97	Role of Smoke Stimulatory and Inhibitory Biomolecules in Phytochrome-Regulated Seed Germination of. <i>Plant Physiology</i> , 2019 , 181, 458-470	6.6	16
96	Endogenous cytokinin profiles of tissue-cultured and acclimatized 'Williams' bananas subjected to different aromatic cytokinin treatments. <i>Plant Science</i> , 2014 , 214, 88-98	5.3	16
95	Endogenous cytokinin dynamics in micropropagated tulips during bulb formation process influenced by TDZ and iP pretreatment. <i>Plant Cell, Tissue and Organ Culture</i> , 2014 , 119, 331-346	2.7	16
94	Ferromagnetic Properties of a Trinuclear Nickel(II) Complex with a Trithiocyanurate Bridge. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 5475-5482	2.3	16
93	Physiological responses and endogenous cytokinin profiles of tissue-cultured 'Williams' bananas in relation to roscovitine and an inhibitor of cytokinin oxidase/dehydrogenase (INCYDE) treatments. <i>Planta</i> , 2012 , 236, 1775-90	4.7	15
92	Deuterium in vivo labelling of cytokinins in Arabidopsis thaliana analysed by capillary liquid chromatography/frit-fast atom bombardment mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2000 , 35, 13-22	2.2	15
91	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	4	14
90	The interplay between cytokinins and light during senescence in detached Arabidopsis leaves. <i>Plant, Cell and Environment</i> , 2018 , 41, 1870-1885	8.4	14
89	Shoot and root proliferation in Williams banana: are the topolins better cytokinins?. <i>Plant Cell, Tissue and Organ Culture</i> , 2012 , 111, 209-218	2.7	14
88	Tandem mass spectrometry identification and LC-MS quantification of intact cytokinin nucleotides in K-562 human leukemia cells. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2071-80	4.4	14
87	Synthesis, characterization and biological activity of two nickel(II) complexes with 6-(2-chlorobenzylamino)purine. <i>Transition Metal Chemistry</i> , 2000 , 25, 265-269	2.1	14
86	Quantification of karrikins in smoke water using ultra-high performance liquid chromatography-tandem mass spectrometry. <i>Plant Methods</i> , 2019 , 15, 81	5.8	13
85	Synthesis, characterization and screening of biological activity of Zn(II), Fe(II) and Mn(II) complexes with trithiocyanuric acid. <i>Polyhedron</i> , 2007 , 26, 1583-1589	2.7	13
84	Identification of aromatic cytokinins in suspension cultured photoautotrophic cells of <i>Chenopodium rubrum</i> by capillary liquid chromatography/frit fast atom bombardment mass spectrometry. <i>Plant Growth Regulation</i> , 2002 , 36, 181-189	3.2	13
83	The natural cytokinin 2OH3MeOBAR induces cell death by a mechanism that is different from that of the "classical" cytokinin ribosides. <i>Phytochemistry</i> , 2017 , 136, 156-164	4	12

82	Dissecting the role of two cytokinin analogues (INCYDE and PI-55) on in vitro organogenesis, phytohormone accumulation, phytochemical content and antioxidant activity. <i>Plant Science</i> , 2015 , 238, 81-94	5.3	12
81	Identification and characterization of potential bioactive compounds from the leaves of <i>Leucosidea sericea</i> . <i>Journal of Ethnopharmacology</i> , 2018 , 220, 169-176	5	12
80	New cytokinin derivatives possess UVA and UVB photoprotective effect on human skin cells and prevent oxidative stress. <i>European Journal of Medicinal Chemistry</i> , 2018 , 150, 946-957	6.8	12
79	N9-Substituted N ⁶ [(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, 7244-51	3.4	12
78	Electrochemical Reduction of 6-Benzylaminopurine at Mercury Electrodes and Its Analytical Application. <i>Collection of Czechoslovak Chemical Communications</i> , 2003 , 68, 1076-1093		12
77	Auxin-cytokinin interaction and variations in their metabolic products in the regulation of organogenesis in two <i>Eucomis</i> species. <i>New Biotechnology</i> , 2016 , 33, 883-890	6.4	12
76	<i>Agrobacterium rhizogenes</i> -mediated transformation of a dioecious plant model <i>Silene latifolia</i> . <i>New Biotechnology</i> , 2019 , 48, 20-28	6.4	12
75	Cytokinin profiling of long-term in vitro pea (<i>Pisum sativum</i> L.) shoot cultures. <i>Plant Growth Regulation</i> , 2015 , 77, 125-132	3.2	11
74	Determination of free diferulic, disinapic and dicoumaric acids in plants and foods. <i>Food Chemistry</i> , 2015 , 171, 280-6	8.5	11
73	Plant growth regulator interactions in physiological processes for controlling plant regeneration and in vitro development of <i>Tulbaghia simmleri</i> . <i>Journal of Plant Physiology</i> , 2018 , 223, 65-71	3.6	11
72	New fluorescently labeled auxins exhibit promising anti-auxin activity. <i>New Biotechnology</i> , 2019 , 48, 44-52	10	10
71	Genetic fidelity in tissue-cultured Williams bananas: The effect of high concentration of topolins and benzyladenine. <i>Scientia Horticulturae</i> , 2013 , 161, 324-327	4.1	10
70	High Performance Liquid Chromatography-Electrochemistry-Electrospray Ionization Mass Spectrometry (HPLC/EC/ESI-MS) for Detection and Characterization of Roscovitine Oxidation Products. <i>Electroanalysis</i> , 2011 , 23, 2898-2905	3	10
69	The structure of 6-(2-hydroxybenzylamino)purine acetic acid solvate. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 1997 , 212,	1	10
68	Volatiles from the fungal phytopathogen <i>Penicillium aurantiogriseum</i> modulate root metabolism and architecture through proteome resetting. <i>Plant, Cell and Environment</i> , 2020 , 43, 2551-2570	8.4	9
67	Activity of (+)-Discadenine as a Plant Cytokinin. <i>Journal of Natural Products</i> , 2017 , 80, 2136-2140	4.9	9
66	How Do Different Watering Regimes Affect the Growth, Chlorophyll Fluorescence, Phytohormone, and Phenolic Acid Content of Greenhouse-Grown <i>Ceratotheca triloba</i> ?. <i>Journal of Plant Growth Regulation</i> , 2019 , 38, 385-399	4.7	9
65	Phytochemical Characterization, Antibacterial, Acetylcholinesterase Inhibitory and Cytotoxic Properties of <i>Cryptostephanus vansonii</i> , an Endemic Amaryllid. <i>Phytotherapy Research</i> , 2017 , 31, 713-720	6.7	8

64	Deciphering the phenolic acid reserves and antioxidant activity within the protocorm like bodies of <i>Ansellia africana</i> : A vulnerable medicinal orchid. <i>Industrial Crops and Products</i> , 2019 , 135, 21-29	5.9	8
63	Accumulation pattern of endogenous cytokinins and phenolics in different organs of 1-year-old cytokinin pre-incubated plants: implications for conservation. <i>Plant Biology</i> , 2015 , 17, 1146-55	3.7	8
62	Endogenous cytokinin profiles and their relationships to between-family differences during adventitious caulogenesis in <i>Pinus pinea</i> cotyledons. <i>Journal of Plant Physiology</i> , 2012 , 169, 1830-7	3.6	8
61	Interactions of olomoucine II with human liver microsomal cytochromes P450. <i>Drug Metabolism and Disposition</i> , 2009 , 37, 1198-202	4	8
60	Peroxidase isozyme polymorphism in <i>Cucurbita pepo</i> cultivars with various morphotypes and different level of field resistance to powdery mildew. <i>Scientia Horticulturae</i> , 1999 , 81, 103-112	4.1	8
59	Hormopriming to Mitigate Abiotic Stress Effects: A Case Study of -Substituted Cytokinin Derivatives With a Fluorinated Carbohydrate Moiety. <i>Frontiers in Plant Science</i> , 2020 , 11, 599228	6.2	8
58	Effect of Piper beetle on <i>Giardia intestinalis</i> infection in vivo. <i>Experimental Parasitology</i> , 2018 , 184, 39-45	2.1	8
57	Quantitative Analysis of Ingenol in <i>Euphorbia</i> species via Validated Isotope Dilution Ultra-high Performance Liquid Chromatography Tandem Mass Spectrometry. <i>Phytochemical Analysis</i> , 2018 , 29, 23-29	3.4	8
56	Microscale magnetic microparticle-based immunopurification of cytokinins from <i>Arabidopsis</i> root apex. <i>Plant Journal</i> , 2017 , 89, 1065-1075	6.9	7
55	Naturally Occurring and Artificial N9-Cytokinin Conjugates: From Synthesis to Biological Activity and Back. <i>Biomolecules</i> , 2020 , 10,	5.9	7
54	Deciphering the growth pattern and phytohormonal content in Saskatoon berry (<i>Amelanchier alnifolia</i>) in response to in vitro cytokinin application. <i>New Biotechnology</i> , 2018 , 42, 85-94	6.4	7
53	The trans and cis zeatin isomers play different roles in regulating growth inhibition induced by high nitrate concentrations in maize. <i>Plant Growth Regulation</i> , 2018 , 85, 199-209	3.2	7
52	Effects of selected Indonesian plant extracts on <i>E. tuniculi</i> infection in vivo. <i>Experimental Parasitology</i> , 2017 , 181, 94-101	2.1	7
51	Trithiocyanurate complexes of iron, manganese and nickel and their anticholinesterase activity. <i>Molecules</i> , 2014 , 19, 4338-54	4.8	7
50	Analysis of cytokinin nucleotides by capillary zone electrophoresis with diode array and mass spectrometric detection in a recombinant enzyme in vitro reaction. <i>Analytica Chimica Acta</i> , 2012 , 751, 176-81	6.6	7
49	In vitro anti-inflammatory and anticancer activities of extracts of <i>Acalypha alopecuroidea</i> (Euphorbiaceae). <i>International Journal of Oncology</i> , 2009 , 35, 881-91	4.4	7
48	Synthesis and anthelmintic activity of benzopyrano[2,3-c]pyrazol-4(2H)-one derivatives. <i>Molecular Diversity</i> , 2020 , 24, 1025-1042	3.1	7
47	Interactive effects of plant growth-promoting rhizobacteria and a seaweed extract on the growth and physiology of <i>Allium cepa</i> L. (onion). <i>Journal of Plant Physiology</i> , 2021 , 262, 153437	3.6	7

46	Aromatic Cytokinin Arabinosides Promote PAMP-like Responses and Positively Regulate Leaf Longevity. <i>ACS Chemical Biology</i> , 2020 , 15, 1949-1963	4.9	6
45	Design, synthesis and perception of fluorescently labeled isoprenoid cytokinins. <i>Phytochemistry</i> , 2018 , 150, 1-11	4	6
44	Plastidial Phosphoglucose Isomerase Is an Important Determinant of Seed Yield through Its Involvement in Gibberellin-Mediated Reproductive Development and Storage Reserve Biosynthesis in Arabidopsis. <i>Plant Cell</i> , 2018 , 30, 2082-2098	11.6	6
43	Anti-cancer activities of cytokinin ribosides. <i>Phytochemistry Reviews</i> , 2019 , 18, 1101-1113	7.7	6
42	Effect of a novel aromatic cytokinin derivative on phytochemical levels and antioxidant potential in greenhouse grown <i>Merwillia plumbea</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2014 , 119, 501-509	2.7	6
41	Cytokinin Differences in In Vitro Cultures and Inflorescences from Normal and Mantled Oil Palm (<i>Elaeis guineensis</i> Jacq.). <i>Journal of Plant Growth Regulation</i> , 2013 , 32, 865-874	4.7	6
40	Preparation and cytotoxic activity of nickel(II) complexes with 6-benzylaminopurine derivatives. <i>Transition Metal Chemistry</i> , 2002 , 27, 918-923	2.1	6
39	Regulating the regulators: responses of four plant growth regulators during clonal propagation of <i>Lachenalia montana</i> . <i>Plant Growth Regulation</i> , 2017 , 82, 305-315	3.2	5
38	General approach to neolignan-core of the boehmenan natural product family. <i>Monatshefte für Chemie</i> , 2018 , 149, 737-748	1.4	5
37	Effect of zinc on the production of phenolic acids and hypoxoside in micropropagated <i>Hypoxis hemerocallidea</i> . <i>Plant Growth Regulation</i> , 2019 , 89, 19-24	3.2	5
36	An improved in vivo deuterium labeling method for measuring the biosynthetic rate of cytokinins. <i>Molecules</i> , 2010 , 15, 9214-29	4.8	5
35	Improvement of Tillering and Grain Yield by Application of Cytokinin Derivatives in Wheat and Barley. <i>Agronomy</i> , 2021 , 11, 67	3.6	5
34	New fluorescent auxin probes visualise tissue-specific and subcellular distributions of auxin in Arabidopsis. <i>New Phytologist</i> , 2021 , 230, 535-549	9.8	5
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32	Efficient Micropropagation Protocol for the Conservation of the Endangered , an Ornamental and Medicinal Species. <i>Plants</i> , 2020 , 9,	4.5	4
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30	New aromatic 6-substituted 2'-deoxy-9- β -D-ribofuranosylpurine derivatives as potential plant growth regulators. <i>Bioorganic and Medicinal Chemistry</i> , 2020 , 28, 115230	3.4	4
29	Cytokinin profiles in ex vitro acclimatized <i>Eucomis autumnalis</i> plants pre-treated with smoke-derived karrikinolide. <i>Plant Cell Reports</i> , 2016 , 35, 227-38	5.1	4

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