

Karel Dolezal

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Improvement of Tillering and Grain Yield by Application of Cytokinin Derivatives in Wheat and Barley. <i>Agronomy</i> , 2021 , 11, 67	3.6	5
170	Enhanced Yield of Pepper Plants Promoted by Soil Application of Volatiles From Cell-Free Fungal Culture Filtrates Is Associated With Activation of the Beneficial Soil Microbiota. <i>Frontiers in Plant Science</i> , 2021 , 12, 752653	6.2	2
169	A stable isotope dilution method for a highly accurate analysis of karrikins. <i>Plant Methods</i> , 2021 , 17, 37	5.8	
168	Soil nutrient status of KwaZulu-Natal savanna and grassland biomes causes variation in cytokinin functional groups and their levels in above-ground and underground parts of three legumes. <i>Physiology and Molecular Biology of Plants</i> , 2021 , 27, 1337-1351	2.8	
167	Naturally Occurring Oxazole Structural Units as Ligands of Vanadium Catalysts for Ethylene-Norbornene (Co)polymerization. <i>Catalysts</i> , 2021 , 11, 923	4	1
166	Topolin Metabolism and Its Implications for In Vitro Plant Micropropagation 2021 , 49-58		
165	In vitro and ex vivo vegetative propagation and cytokinin profiles of <i>Sceletium tortuosum</i> (L.) N. E. Br.: a South African medicinal plant. <i>Plant Cell, Tissue and Organ Culture</i> , 2021 , 145, 191-202	2.7	2
164	Categories of various plant biostimulants [mode of application and shelf-life 2021 , 1-60		2
163	Topolins and Related Compounds: Uses in Agriculture 2021 , 317-328		
162	New fluorescent auxin probes visualise tissue-specific and subcellular distributions of auxin in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2021 , 230, 535-549	9.8	5
161	Proteostatic Regulation of MEP and Shikimate Pathways by Redox-Activated Photosynthesis Signaling in Plants Exposed to Small Fungal Volatiles. <i>Frontiers in Plant Science</i> , 2021 , 12, 637976	6.2	3
160	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
159	characterisation of phytohormones from wounded leaves using desorption electrospray ionisation mass spectrometry imaging. <i>Analyst, The</i> , 2021 , 146, 2653-2663	5	4
158	Cytokinin-Facilitated Plant Regeneration of Three Species with Different Conservation Status. <i>Plants</i> , 2020 , 9,	4.5	3
157	Naturally Occurring and Artificial N9-Cytokinin Conjugates: From Synthesis to Biological Activity and Back. <i>Biomolecules</i> , 2020 , 10,	5.9	7
156	Aromatic Cytokinin Arabinosides Promote PAMP-like Responses and Positively Regulate Leaf Longevity. <i>ACS Chemical Biology</i> , 2020 , 15, 1949-1963	4.9	6
155	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

154	Efficient Micropropagation Protocol for the Conservation of the Endangered , an Ornamental and Medicinal Species. <i>Plants</i> , 2020 , 9,	4.5	4
153	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
152	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
151	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,	6.3	2
150	Cytokinin fluoroprobe reveals multiple sites of cytokinin perception at plasma membrane and endoplasmic reticulum. <i>Nature Communications</i> , 2020 , 11, 4285	17.4	29
149	Applications of Cytokinins in Horticultural Fruit Crops: Trends and Future Prospects. <i>Biomolecules</i> , 2020 , 10,	5.9	3
148	Cell-surface receptors enable perception of extracellular cytokinins. <i>Nature Communications</i> , 2020 , 11, 4284	17.4	24
147	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
146	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
145	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
144	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
143	6-Substituted purines as ROCK inhibitors with anti-metastatic activity. <i>Bioorganic Chemistry</i> , 2019 , 90, 103005	5.1	3
142	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
141	Elucidating the role of Kelpak \square on the growth, phytohormone composition, and phenolic acids in macronutrient-stressed <i>Ceratotheca triloba</i> . <i>Journal of Applied Phycology</i> , 2019 , 31, 2687-2697	3.2	3
140	Phytohormones and polyamines regulate plant stress responses by altering GABA pathway. <i>New Biotechnology</i> , 2019 , 48, 53-65	6.4	105
139	New fluorescently labeled auxins exhibit promising anti-auxin activity. <i>New Biotechnology</i> , 2019 , 48, 44-52	5.4	10
138	Bioactive molecules derived from smoke and seaweed <i>Ecklonia maxima</i> showing phytohormone-like activity in <i>Spinacia oleracea</i> L. <i>New Biotechnology</i> , 2019 , 48, 83-89	6.4	48
137	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

136	Role of Smoke Stimulatory and Inhibitory Biomolecules in Phytochrome-Regulated Seed Germination of. <i>Plant Physiology</i> , 2019 , 181, 458-470	6.6	16
135	Effect of zinc on the production of phenolic acids and hypoxoside in micropropagated Hypoxis hemerocallidea. <i>Plant Growth Regulation</i> , 2019 , 89, 19-24	3.2	5
134	Anti-cancer activities of cytokinin ribosides. <i>Phytochemistry Reviews</i> , 2019 , 18, 1101-1113	7.7	6
133	Titanium and Vanadium Catalysts with 2-Hydroxyphenyloxazoline and Oxazine Ligands for Ethylene-Norbornene (co)Polymerization. <i>Catalysts</i> , 2019 , 9, 1041	4	2
132	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
131	<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
130	Design, synthesis and perception of fluorescently labeled isoprenoid cytokinins. <i>Phytochemistry</i> , 2018 , 150, 1-11	4	6
129	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
128	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
127	General approach to neolignan-core of the boehmenan natural product family. <i>Monatshefte für Chemie</i> , 2018 , 149, 737-748	1.4	5
126	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
125	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
124	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
123	The interplay between cytokinins and light during senescence in detached <i>Arabidopsis</i> leaves. <i>Plant, Cell and Environment</i> , 2018 , 41, 1870-1885	8.4	14
122	Plastidial Phosphoglucose Isomerase Is an Important Determinant of Seed Yield through Its Involvement in Gibberellin-Mediated Reproductive Development and Storage Reserve Biosynthesis in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2018 , 30, 2082-2098	11.6	6
121	Effect of Piper beetle on <i>Giardia intestinalis</i> infection in vivo. <i>Experimental Parasitology</i> , 2018 , 184, 39-45	2.1	8
120	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
119	Total synthesis of [N]-labelled C6-substituted purines from [N]-formamide-easy preparation of isotopically labelled cytokinins and derivatives. <i>Royal Society Open Science</i> , 2018 , 5, 181322	3.3	2

118	Role of Cytokinins in Senescence, Antioxidant Defence and Photosynthesis. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	63
117	Phenolic and flavonoid production and antimicrobial activity of <i>Gymnosporia buxifolia</i> (L.) Szyszyl cell cultures. <i>Plant Growth Regulation</i> , 2018 , 86, 333-338	3.2	4
116	Regulation of growth, nutritive, phytochemical and antioxidant potential of cultivated <i>Drimiopsis maculata</i> in response to biostimulant (vermicompost leachate, VCL) application. <i>Plant Growth Regulation</i> , 2018 , 86, 433-444	3.2	5
115	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
114	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
113	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
112	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
111	Differential responses to isoprenoid, N 6-substituted aromatic cytokinins and indole-3-butyric acid in direct plant regeneration of <i>Eriocephalus africanus</i> . <i>Plant Growth Regulation</i> , 2017 , 82, 103-110	3.2	3
110	Microscale magnetic microparticle-based immunopurification of cytokinins from <i>Arabidopsis</i> root apex. <i>Plant Journal</i> , 2017 , 89, 1065-1075	6.9	7
109	Determination of Mineral Constituents, Phytochemicals and Antioxidant Qualities of , Compared to and. <i>Frontiers in Chemistry</i> , 2017 , 5, 128	5	20
108	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
107	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
106	Activity of (+)-Discadenine as a Plant Cytokinin. <i>Journal of Natural Products</i> , 2017 , 80, 2136-2140	4.9	9
105	Physiological and Biochemical Responses of <i>Merwillia plumbea</i> Cultured In Vitro with Different Cytokinins After 1 Year of Growth Under Ex Vitro Conditions. <i>Journal of Plant Growth Regulation</i> , 2017 , 36, 83-95	4.7	
104	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
103	Synthesis of aromatic cytokinins for plant biotechnology. <i>New Biotechnology</i> , 2016 , 33, 614-624	6.4	23
102	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
101	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

100	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
99	<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
98	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
97	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
96	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
95	Cell-Type-Specific Cytokinin Distribution within the <i>Arabidopsis</i> Primary Root Apex. <i>Plant Cell</i> , 2015 , 27, 1955-67	11.6	102
94	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
93	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
92	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
91	Determination of free diferulic, disinapic and dicoumaric acids in plants and foods. <i>Food Chemistry</i> , 2015 , 171, 280-6	8.5	11
90	High Performance Liquid Chromatography/Electrochemistry/High Resolution Electrospray Ionization-Mass Spectrometry (HPLC/EC/HR ESI-MS) Characterization of Selected Cytokinins Oxidation Products. <i>Electroanalysis</i> , 2015 , 27, 406-414	3	2
89	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
88	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
87	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
86	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
85	An intrinsic microRNA timer regulates progressive decline in shoot regenerative capacity in plants. <i>Plant Cell</i> , 2015 , 27, 349-60	11.6	87
84	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
83	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

82	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
81	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
80	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
79	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
78	Trithiocyanurate complexes of iron, manganese and nickel and their anticholinesterase activity. <i>Molecules</i> , 2014 , 19, 4338-54	4.8	7
77	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
76	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
75	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
74	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
73	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
72	The role of cytokinins during micropropagation of wych elm. <i>Biologia Plantarum</i> , 2013 , 57, 174-178	2.1	19
71	Topolins: A panacea to plant tissue culture challenges?. <i>Plant Cell, Tissue and Organ Culture</i> , 2012 , 108, 1-16	2.7	123
70	An apolar extract of <i>Critonia morifolia</i> inhibits c-Myc, cyclin D1, Cdc25A, Cdc25B, Cdc25C and Akt and induces apoptosis. <i>International Journal of Oncology</i> , 2012 , 40, 2131-9	4.4	2
69	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
68	Comparative mineral and hormonal analyses of wild type and TLS somaclonal variant derived from oil palm (<i>Elaeis guineensis</i> Jacq. var. <i>tenera</i>) tissue culture. <i>Plant Growth Regulation</i> , 2012 , 68, 313-317	3.2	4
67	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
66	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
65	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

64	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
63	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
62	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
61	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
60	N9-Substituted N[(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
59	Changes in endogenous cytokinin profiles in micropropagated Harpagophytum procumbens in relation to shoot-tip necrosis and cytokinin treatments. <i>Plant Growth Regulation</i> , 2011 , 63, 105-114	3.2	44
58	N9-substituted derivatives of kinetin: effective anti-senescence agents. <i>Phytochemistry</i> , 2011 , 72, 821-314		30
57	New cytokinin derivatives [their discovery, development and use for micropropagation of endangered tree species. <i>BMC Proceedings</i> , 2011 , 5,	2.3	2
56	Novel BAP degradation pathway during adventitious caulogenesis in Pinus pinea L. cotyledons. <i>BMC Proceedings</i> , 2011 , 5,	2.3	78
55	Phytohormone targeting in plant tissues. <i>BMC Proceedings</i> , 2011 , 5,	2.3	78
54	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
53	In vitro interaction of a novel neutrophil growth factor with human liver microsomal cytochromes P450 and the contribution of UDP-glucuronosyltransferases to its metabolism. <i>Xenobiotica</i> , 2011 , 41, 934-44	2	3
52	Hormonal control of the shoot stem-cell niche. <i>Nature</i> , 2010 , 465, 1089-92	50.4	343
51	Cytokinin regulation of auxin synthesis in Arabidopsis involves a homeostatic feedback loop regulated via auxin and cytokinin signal transduction. <i>Plant Cell</i> , 2010 , 22, 2956-69	11.6	200
50	Cytotoxic activities of several geranyl-substituted flavanones. <i>Journal of Natural Products</i> , 2010 , 73, 568-73		52
49	An improved in vivo deuterium labeling method for measuring the biosynthetic rate of cytokinins. <i>Molecules</i> , 2010 , 15, 9214-29	4.8	5
48	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
47	Cytokinin receptor antagonists derived from 6-benzylaminopurine. <i>Phytochemistry</i> , 2010 , 71, 823-30	4	39

46	Anticancer activity of natural cytokinins: a structure-activity relationship study. <i>Phytochemistry</i> , 2010 , 71, 1350-9	4	63
45	Photosynthetic responses of lettuce to downy mildew infection and cytokinin treatment. <i>Plant Physiology and Biochemistry</i> , 2010 , 48, 716-23	5.4	36
44	X-ray structure, NMR and stability-in-solution study of 6-(furfurylamino)-9-(tetrahydropyran-2-yl)purine A new active compound for cosmetology. <i>Journal of Molecular Structure</i> , 2010 , 975, 376-380	3.4	2
43	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
42	Interactions of olomoucine II with human liver microsomal cytochromes P450. <i>Drug Metabolism and Disposition</i> , 2009 , 37, 1198-202	4	8
41	Solving the problem of shoot-tip necrosis in <i>Harpagophytum procumbens</i> by changing the cytokinin types, calcium and boron concentrations in the medium. <i>South African Journal of Botany</i> , 2009 , 75, 122-129	4.7	48
40	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
39	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
38	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
37	TAA1-mediated auxin biosynthesis is essential for hormone crosstalk and plant development. <i>Cell</i> , 2008 , 133, 177-91	56.2	808
36	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
35	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
34	The role of topolins in micropropagation and somaclonal variation of banana cultivars Williams and Grand Naine (<i>Musa</i> spp. AAA). <i>Plant Cell, Tissue and Organ Culture</i> , 2008 , 95, 373-379	2.7	77
33	Cytokinin profiling in plant tissues using ultra-performance liquid chromatography-electrospray tandem mass spectrometry. <i>Phytochemistry</i> , 2008 , 69, 2214-24	4	180
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31	Preparation, biological activity and endogenous occurrence of N6-benzyladenosines. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 3737-47	3.4	86
30	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
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