

# Helena Lipavska

## List of Publications by Year in descending order

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52  
papers

999  
citations

394421

19  
h-index

454955

30  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1148  
citing authors

#	ARTICLE	IF	CITATIONS
1	Somatic embryogenesis in conifers: The role of carbohydrate metabolism. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2004, 40, 23-30.	2.1	92
2	The effect of abiotic stresses on carbohydrate status of olive shoots ( <i>Olea europaea</i> L.) under in vitro conditions. <i>Journal of Plant Physiology</i> , 2007, 164, 174-184.	3.5	73
3	Uptake of mannitol from the media by in vitro grown plants. <i>Plant Cell, Tissue and Organ Culture</i> , 1996, 45, 103-107.	2.3	61
4	Somatic embryogenesis in Norway spruce: Anatomical study of embryo development and influence of polyethylene glycol on maturation process. <i>Plant Physiology and Biochemistry</i> , 1999, 37, 209-221.	5.8	56
5	Influence of nutrient supply on growth, carbohydrate, and nitrogen metabolic relations in <i>Typha angustifolia</i> . <i>Environmental and Experimental Botany</i> , 2006, 57, 246-257.	4.2	50
6	Tobacco BY-2 cells expressing fission yeast <i>cdc25</i> bypass a G2/M block on the cell cycle. <i>Plant Journal</i> , 2005, 44, 290-299.	5.7	39
7	Carbohydrate status during somatic embryo maturation in Norway spruce. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2000, 36, 260-267.	2.1	35
8	Two facets of world arsenic problem solution: crop poisoning restriction and enforcement of phytoremediation. <i>Planta</i> , 2018, 248, 19-35.	3.2	35
9	Annual dynamics of the content of non-structural saccharides in the context of structural development of vegetative buds of Norway spruce. <i>Journal of Plant Physiology</i> , 2000, 157, 365-373.	3.5	33
10	Sucrose metabolism during somatic and zygotic embryogeneses in Norway spruce: content of soluble saccharides and localisation of key enzyme activities. <i>Journal of Plant Physiology</i> , 2002, 159, 387-396.	3.5	31
11	Morphological and molecular characterization of a spontaneously tuberizing potato mutant: an insight into the regulatory mechanisms of tuber induction. <i>BMC Plant Biology</i> , 2008, 8, 117.	3.6	30
12	Multi-Component Antioxidative System and Robust Carbohydrate Status, the Essence of Plant Arsenic Tolerance. <i>Antioxidants</i> , 2020, 9, 283.	5.1	30
13	Asymbiotic germination of mature seeds and protocorm development of <i>Pseudorchis albida</i> (Orchidaceae) are inhibited by nitrates even at extremely low concentrations. <i>Botany</i> , 2013, 91, 662-670.	1.0	28
14	Comparing carbohydrate status during norway spruce seed development and somatic embryo formation. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2001, 37, 24-28.	2.1	26
15	Ex Vitro Phenotype Stability is Affected by In Vitro Cultivation. <i>Biologia Plantarum</i> , 2001, 44, 321-324.	1.9	26
16	Regulatory dephosphorylation of CDK at G2/M in plants: yeast mitotic phosphatase <i>cdc25</i> induces cytokinin-like effects in transgenic tobacco morphogenesis. <i>Annals of Botany</i> , 2011, 107, 1071-1086.	2.9	25
17	Robust carbohydrate dynamics based on sucrose resynthesis in developing Norway spruce somatic embryos at variable sugar supply. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2014, 50, 45-57.	2.1	24
18	Carbohydrates and gibberellins relationship in potato tuberization. <i>Journal of Plant Physiology</i> , 2017, 214, 53-63.	3.5	24

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19	Mixotrophic in vitro cultivations: the way to go astray in plant physiology. <i>Physiologia Plantarum</i> , 2019, 167, 365-377.	5.2	21
20	Production of quinomycin A in <i>Streptomyces lasaliensis</i> . <i>Folia Microbiologica</i> , 1987, 32, 1-5.	2.3	20
21	Storage lipid dynamics in somatic embryos of Norway spruce ( <i>Picea abies</i> ): histochemical and quantitative analyses. <i>Tree Physiology</i> , 2007, 27, 1533-1540.	3.1	18
22	Mannitol utilisation by celery ( <i>Apium graveolens</i> ) plants grown under different conditions in vitro. <i>Plant Science</i> , 2002, 163, 907-916.	3.6	17
23	Cryoprotective role of ribitol in <i>Xanthoparmelia somloensis</i> . <i>Biologia Plantarum</i> , 2009, 53, 677-684.	1.9	17
24	Expression of the fission yeast cell cycle regulator <i>cdc25</i> induces de novo shoot formation in tobacco: evidence of a cytokinin-like effect by this mitotic activator. <i>Plant Physiology and Biochemistry</i> , 2004, 42, 49-55.	5.8	16
25	Non-structural carbohydrate status in Norway spruce buds in the context of annual bud structural development as affected by acidic pollution. <i>Environmental and Experimental Botany</i> , 2000, 43, 253-265.	4.2	15
26	The Influence of Nitrogen Nutrition on the Carbohydrate and Nitrogen Status of Emergent Macrophyte <i>Acorus calamus</i> L.. <i>Hydrobiologia</i> , 2006, 563, 73-85.	2.0	15
27	Norway spruce embryogenesis: changes in carbohydrate profile, structural development and response to polyethylene glycol. <i>Tree Physiology</i> , 2016, 36, 548-561.	3.1	15
28	Efficient In Vitro Micropropagation and Regeneration of <i>Humulus Lupulus</i> on Low Sugar, Starch-Gelrite Media. <i>Biologia Plantarum</i> , 2001, 44, 7-12.	1.9	14
29	Cold-induced accumulation of raffinose family oligosaccharides in somatic embryos of Norway spruce ( <i>Picea abies</i> ). <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2003, 39, 425-427.	2.1	13
30	Ultrastructure of <i>Bacillus licheniformis</i> bacteriophage BLE and its DNA. <i>Virology</i> , 1977, 77, 872-875.	2.4	12
31	Integrative Study Supports the Role of Trehalose in Carbon Transfer From Fungi to Mycotrophic Orchid. <i>Frontiers in Plant Science</i> , 2021, 12, 793876.	3.6	10
32	Versatile roles of sorbitol in higher plants: luxury resource, effective defender or something else?. <i>Planta</i> , 2022, 256, .	3.2	10
33	The efficiency of transfer of plants cultivated in vitro to ex vitro conditions as affected by sugar supply. <i>Biologia Plantarum</i> , 1998, 41, 507-513.	1.9	8
34	The fission yeast mitotic activator <i>cdc25</i> and sucrose induce early flowering synergistically in the day-neutral <i>Nicotiana tabacum</i> cv. Samsun. <i>New Phytologist</i> , 2007, 176, 804-812.	7.3	7
35	Reaction of daunomycinone with diols. <i>Collection of Czechoslovak Chemical Communications</i> , 1984, 49, 653-665.	1.0	7
36	The screening of microorganisms for hydroxylation activity: Hydroxylation of diamantanols. <i>Biotechnology Letters</i> , 1982, 4, 563-566.	2.2	6

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37	Tobacco cells transformed with the fission yeast Spdc25 mitotic inducer display growth and morphological characteristics as well as starch and sugar status evocable by cytokinin application. <i>Plant Physiology and Biochemistry</i> , 2008, 46, 673-684.	5.8	5
38	Nonstructural carbohydrate-balance response to long-term elevated CO <sub>2</sub> exposure in European beech and Norway spruce mixed cultures: biochemical and ultrastructural responses. <i>Canadian Journal of Forest Research</i> , 2017, 47, 1488-1494.	1.7	5
39	Synthesis and biological activity of (7S)-O-epoxyalkyl derivatives of daunomycinone.. <i>Journal of Antibiotics</i> , 1985, 38, 1714-1718.	2.0	4
40	7-O-Alkyl derivatives of daunomycinone. <i>Collection of Czechoslovak Chemical Communications</i> , 1984, 49, 313-319.	1.0	4
41	7-O-Alkenyl and alkynyl derivatives of daunomycinone. <i>Collection of Czechoslovak Chemical Communications</i> , 1985, 50, 2625-2633.	1.0	3
42	Defence responses induced in embryogenic cultures of Norway spruce by two fractions of <i>Gremmeniella abietina</i> mycelia. <i>Forest Pathology</i> , 2010, 40, 467-484.	1.1	3
43	Utilization of exogenous saccharides by protocorms of two terrestrial orchids. <i>Plant, Soil and Environment</i> , 2017, 63, 152-158.	2.2	3
44	Expression of Arabidopsis WEE1 in tobacco induces unexpected morphological and developmental changes. <i>Scientific Reports</i> , 2019, 9, 8695.	3.3	3
45	Thin-layer chromatographic separation of new semisynthetic derivatives of daunomycinone. <i>Journal of Chromatography A</i> , 1983, 257, 185-187.	3.7	2
46	Preparative chromatography of epimers and anomers of daunomycin derivatives on Sephadex LH-20. <i>Journal of Chromatography A</i> , 1985, 329, 193-195.	3.7	2
47	A yeast mitotic activator sensitises the shoot apical meristem to become floral in day-neutral tobacco. <i>Planta</i> , 2013, 238, 793-806.	3.2	2
48	High-Performance Liquid Chromatography of New Semisynthetic Daunomycinone Derivatives. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1982, 5, 1967-1972.	1.0	1
49	The Effect of Exogenous Sugar Supply and Nitrogen Deficiency on Dry Matter Allocation in Rape Seedlings Grown in vitro. <i>Biochemie Und Physiologie Der Pflanzen</i> , 1992, 188, 261-266.	0.5	1
50	Effect of Paclobutrazol on Soluble Sugars and Starch Content of de novo Regenerating Potato Stem Explants. <i>Biologia Plantarum</i> , 2000, 43, 137-139.	1.9	1
51	The endangered Saharan cypress ( <i>Cupressus dupreziana</i> ): do not let it get into Charon's boat. <i>Planta</i> , 2020, 251, 63.	3.2	1
52	Root cultures of potato mutant lacking MSPI isoform, indispensable for photosynthetic light reactions, exhibit characteristics similar to intact plant roots. <i>Journal of Plant Physiology</i> , 2020, 245, 153091.	3.5	0