

Ladislav Havel

List of Publications by Year in descending order

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77
papers

2,521
citations

185998

28
h-index

197535

49
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82
all docs

82
docs citations

82
times ranked

2689
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncommon heavy metals, metalloids and their plant toxicity: a review. <i>Environmental Chemistry Letters</i> , 2008, 6, 189-213.	8.3	328
2	Noteworthy Secondary Metabolites Naphthoquinones – their Occurrence, Pharmacological Properties and Analysis. <i>Current Pharmaceutical Analysis</i> , 2009, 5, 47-68.	0.3	205
3	Simultaneous femtomole determination of cysteine, reduced and oxidized glutathione, and phytochelatin in maize (<i>Zea mays</i> L.) kernels using high-performance liquid chromatography with electrochemical detection. <i>Journal of Chromatography A</i> , 2005, 1084, 134-144.	1.8	176
4	Fully Automated Spectrometric Protocols for Determination of Antioxidant Activity: Advantages and Disadvantages. <i>Molecules</i> , 2010, 15, 8618-8640.	1.7	117
5	Simultaneous determination of eight biologically active thiol compounds using gradient elution-liquid chromatography with Coul-Array detection. <i>Journal of Separation Science</i> , 2006, 29, 1166-1173.	1.3	83
6	Apoptosis in Plants. <i>Botanica Acta</i> , 1996, 109, 268-277.	1.6	77
7	Electroanalysis of Plant Thiols. <i>Sensors</i> , 2007, 7, 932-959.	2.1	72
8	Multi-instrumental Analysis of Tissues of Sunflower Plants Treated with Silver(I) Ions – Plants as Bioindicators of Environmental Pollution. <i>Sensors</i> , 2008, 8, 445-463.	2.1	70
9	Electrochemical determination of Ag-ions in environment waters and their action on plant embryos. <i>Bioelectrochemistry</i> , 2007, 70, 508-518.	2.4	69
10	Apoptosis During Diploid Parthenogenesis and Early Somatic Embryogenesis of Norway Spruce. <i>International Journal of Plant Sciences</i> , 1996, 157, 8-16.	0.6	63
11	Naphthoquinones as allelochemical triggers of programmed cell death. <i>Environmental and Experimental Botany</i> , 2009, 65, 330-337.	2.0	63
12	Electrochemical determination of lead and glutathione in a plant cell culture. <i>Bioelectrochemistry</i> , 2004, 63, 347-351.	2.4	62
13	Electrochemical Sensors for Detection of Acetylsalicylic Acid. <i>Sensors</i> , 2006, 6, 1483-1497.	2.1	59
14	Multi-instrumental Investigation of Affecting of Early Somatic Embryos of Spruce by Cadmium(II) and Lead(II) Ions. <i>Sensors</i> , 2007, 7, 743-759.	2.1	50
15	Sub-picomole high-performance liquid chromatographic/mass spectrometric determination of glutathione in the maize (<i>Zea mays</i> L.) kernels exposed to cadmium. <i>Analytica Chimica Acta</i> , 2004, 520, 117-124.	2.6	49
16	Determination of Plant Thiols by Liquid Chromatography Coupled with Coulometric and Amperometric Detection in Lettuce Treated by Lead(II) Ions. <i>Electroanalysis</i> , 2010, 22, 1248-1259.	1.5	42
17	Determination of content of metallothionein and low molecular mass stress peptides in transgenic tobacco plants. <i>Plant Cell, Tissue and Organ Culture</i> , 2008, 94, 291-298.	1.2	40
18	Elicitation of tobacco cells with ergosterol activates a signal pathway including mobilization of internal calcium. <i>Plant Physiology and Biochemistry</i> , 2003, 41, 495-501.	2.8	38

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19	Automated nucleic acids isolation using paramagnetic microparticles coupled with electrochemical detection. <i>Talanta</i> , 2009, 79, 402-411.	2.9	38
20	<i>Paenibacillus mendelii</i> sp. nov., from surface-sterilized seeds of <i>Pisum sativum</i> L.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 2351-2354.	0.8	37
21	Affecting of aquatic vascular plant <i>Lemna minor</i> by cisplatin revealed by voltammetry. <i>Bioelectrochemistry</i> , 2008, 72, 59-65.	2.4	37
22	Electrochemical study of Sâ€“nitrosoglutathione and nitric oxide by carbon fibre NO sensor and cyclic voltammetry â€“ possible way of monitoring of nitric oxide. <i>Electrochimica Acta</i> , 2006, 51, 5087-5094.	2.6	36
23	Effects of Various Doses of Selenite on Stinging Nettle (<i>Urtica dioica</i> L.). <i>International Journal of Environmental Research and Public Health</i> , 2010, 7, 3804-3815.	1.2	33
24	Using of liquid chromatography coupled with diode array detector for determination of naphthoquinones in plants and for investigation of influence of pH of cultivation medium on content of plumbagin in <i>Dionaea muscipula</i> . <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 842, 28-35.	1.2	32
25	Chalcone synthase expression and pigments deposition in wheat with purple and blue colored caryopsis. <i>Journal of Cereal Science</i> , 2014, 59, 48-55.	1.8	32
26	The study of the conditions for the fertilization in vitro in maize. <i>Biologia Plantarum</i> , 1976, 18, 469-472.	1.9	29
27	Application of computer imaging, stripping voltammetry and mass spectrometry to study the effect of lead (Pb-EDTA) on the growth and viability of early somatic embryos of Norway spruce (<i>Picea abies</i> /L./) Tj ETQq1 1 0.984314rgBT /O		
28	Flow Injection Analysis Coupled with Carbon Electrodes as the Tool for Analysis of Naphthoquinones with Respect to Their Content and Functions in Biological Samples. <i>Sensors</i> , 2006, 6, 1466-1482.	2.1	29
29	A Fluorimetric Sensor for Detection of One Living Cell. <i>Sensors</i> , 2007, 7, 222-238.	2.1	29
30	Latent Diploid Parthenogenesis and Parthenote Cleavage in Egg-Equivalents of Norway Spruce. <i>International Journal of Plant Sciences</i> , 1994, 155, 677-688.	0.6	29
31	Electrochemical and spectrometric study of antioxidant activity of pomiferin, isopomiferin, osajin and catalposide. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 48, 127-133.	1.4	28
32	Silver(I) Ions Ultrasensitive Detection at Carbon Electrodesâ€•Analysis of Waters, Tobacco Cells and Fish Tissues. <i>Sensors</i> , 2009, 9, 6934-6950.	2.1	27
33	Uncommon Heavy Metals, Metalloids and Their Plant Toxicity: A Review. <i>Sustainable Agriculture Reviews</i> , 2009, , 275-317.	0.6	27
34	Analysis of salicylic acid in willow barks and branches by an electrochemical method. <i>Russian Journal of Plant Physiology</i> , 2007, 54, 553-558.	0.5	26
35	Effect of fluoranthene on plant cell model: Tobacco BY-2 suspension culture. <i>Environmental and Experimental Botany</i> , 2012, 78, 117-126.	2.0	23
36	Esterases as a marker for growth of BY-2 tobacco cells and early somatic embryos of the Norway spruce. <i>Plant Cell, Tissue and Organ Culture</i> , 2004, 79, 195-201.	1.2	22

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37	Imaging of Norway spruce early somatic embryos with the ESEM, Cryo-SEM and laser scanning microscope. <i>Micron</i> , 2016, 84, 67-71.	1.1	22
38	Somatic embryogenesis from zygotic embryos of <i>Schisandra chinensis</i> . <i>Biologia Plantarum</i> , 2005, 49, 451-454.	1.9	21
39	Shoot production from in vitro cultured flower heads of <i>Allium porrum</i> L. <i>Biologia Plantarum</i> , 1981, 23, 266-269.	1.9	19
40	Influence of Cadmium(II) Ions and Brewery Sludge on Metallothionein Level in Earthworms (<i>Eisenia</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.1	18
41	Validated method for bioactive lignans in <i>Schisandra chinensis</i> in vitro cultures using a solid phase extraction and a monolithic column application. <i>Biomedical Chromatography</i> , 2010, 24, 954-960.	0.8	18
42	<i>Paenibacillus sepulcri</i> sp. nov., isolated from biodeteriorated mural paintings in the Servilia tomb. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2006, 56, 2341-2344.	0.8	17
43	Phytohormones as Important Biologically Active Molecules – Their Simple Simultaneous Detection. <i>Molecules</i> , 2009, 14, 1825-1839.	1.7	15
44	Effects of copper and arsenic stress on the development of Norway spruce somatic embryos and their visualization with the environmental scanning electron microscope. <i>New Biotechnology</i> , 2019, 48, 35-43.	2.4	15
45	Microfluidic robotic device coupled with electrochemical sensor field for handling of paramagnetic micro-particles as a tool for determination of plant mRNA. <i>Mikrochimica Acta</i> , 2011, 173, 189-197.	2.5	14
46	Microexplant isolation from Cactaceae. <i>Plant Cell, Tissue and Organ Culture</i> , 1983, 2, 349-353.	1.2	13
47	Isolation of Chromosomes from <i>Picea abies</i> and their Analysis by Flow Cytometry. <i>Biologia Plantarum</i> , 2004, 48, 199-203.	1.9	12
48	Cell death induced by sodium nitroprusside and hydrogen peroxide in tobacco BY-2 cell suspension. <i>Biologia Plantarum</i> , 2007, 51, 472-479.	1.9	12
49	Bottlenecks in bog pine multiplication by somatic embryogenesis and their visualization with the environmental scanning electron microscope. <i>Protoplasma</i> , 2017, 254, 1487-1497.	1.0	10
50	The Mitotic Activity of Norway Spruce Polyembryonic Culture Oscillates During the Synodic Lunar Cycle. <i>Biologia Plantarum</i> , 2003, 46, 475-476.	1.9	9
51	Dibenzocyclooctadiene lignan production in <i>Schisandra chinensis</i> embryogenic culture. <i>Journal of Biotechnology</i> , 2008, 136, S437.	1.9	9
52	Application of fluorimetric analysis of plant esterases to study of programmed cell death and effects of cadmium(II) ions. <i>Biologia Plantarum</i> , 2007, 51, 551-555.	1.9	8
53	Testing of DNA isolation for the identification of hemp. <i>Potravinarstvo</i> , 2015, 9, .	0.5	7
54	In vitro pollination of maize (<i>Zea mays</i> L.) ? Proof of double fertilization. <i>Plant Cell Reports</i> , 1981, 1, 26-28.	2.8	6

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55	In Vitro Assessment of Kurdish Rice Genotypes in Response to PEG-Induced Drought Stress. Applied Sciences (Switzerland), 2020, 10, 4471.	1.3	6
56	Apoptosis during early somatic embryogenesis in <i>Picea</i> spp.. Forestry Sciences, 1999, , 125-147.	0.4	6
57	The role of sulphur in cadmium(II) ions detoxification demonstrated in in vitro model: <i>Dionaea muscipula</i> Ell.. Environmental Chemistry Letters, 2009, 7, 353-361.	8.3	5
58	Qualitative Detection of Fungal Contamination in Paprika Powder. Journal of Food Safety, 2017, 37, e12296.	1.1	5
59	Effects of cadmium and lead stress on somatic embryogenesis of coniferous species. Part II: Changes of thiol substances. Acta Physiologiae Plantarum, 2017, 39, 1.	1.0	5
60	Changes of content of glutathione and metallothionein at plant cells and invertebrates treated by platinum group metals. FASEB Journal, 2006, 20, A75.	0.2	5
61	Effects of cadmium and lead stress on somatic embryogenesis of coniferous species. Part I: Evaluation of the genotype-dependent response. Acta Physiologiae Plantarum, 2017, 39, 1.	1.0	4
62	Phytoremediation potential of flax (<i>Linum usitatissimum</i>) to heavy metals with respect to biosynthesis of phytochelatin and activity of phytochelatin synthase. Journal of Biotechnology, 2010, 150, 223-223.	1.9	3
63	Are Early Somatic Embryos of the Norway Spruce (<i>Picea abies</i> (L.) Karst.) Organised?. PLoS ONE, 2015, 10, e0144093.	1.1	3
64	Identification of Alleles for Puroindoline Genes and Their Effect on Grain Texture in Wheat (<i>Triticum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	3
65	The effect of feeding wheat with purple pericarp on the growth of carp. Potravinarstvo, 2015, 9, 263-267.	0.5	3
66	Meristem-tip culture of <i>Allium cepa</i> L.. Scientia Horticulturae, 1985, 27, 209-214.	1.7	2
67	Dormancy of <i>Nicotiana benthamiana</i> seeds can be broken by different compounds. Biologia (Poland), 2009, 64, 705-710.	0.8	2
68	Profiling of stress transcriptome of selected genes in plants treated with heavy metals. Toxicology Letters, 2009, 189, S161.	0.4	2
69	Detection of DNA fragments from wheat in blood of animals. Journal Fur Verbraucherschutz Und Lebensmittelsicherheit, 2016, 11, 259-264.	0.5	2
70	Preservation of a rare bog pine genotypes using micropropagation techniques. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2014, 56, 197-206.	0.2	2
71	MRI-Based Visualization of the Relaxation Times of Early Somatic Embryos. Measurement Science Review, 2016, 16, 54-61.	0.6	2
72	A new tool for distinguishing of different structural forms of lactoferrin. FASEB Journal, 2007, 21, A635.	0.2	1

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73	Molecular Detection of Fungi in Paprika, Chili Powder and Black Pepper. <i>Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis</i> , 2018, 66, 927-937.	0.2	1
74	Sequence analysis of flavanone 3-hydroxylase and dihydroflavonol 4-reductase genes in wheat with nonstandard coloured caryopses. <i>Genetika</i> , 2019, 51, 93-102.	0.1	1
75	Actin Distribution in Mitotic Apparatus of Somatic Embryo Cells of Norway Spruce. <i>Biologia Plantarum</i> , 2003, 46, 167-174.	1.9	0
76	Effects of garlic genotype on cloves formation under in vitro conditions. <i>Zahradnictvi (Prague,)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.3	0
77	Characterization of the Embryogenic Tissue of the Norway Spruce Including a Transition Layer between the Tissue and the Culture Medium by Magnetic Resonance Imaging. <i>Measurement Science Review</i> , 2017, 17, 19-26.	0.6	0