Vladimir Ossipov

List of Publications by Year
in descending order

64	2,913	147801 31	168389 53
papers	citations	h-index	g-index

64	64	64	2664
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Seasonal changes in birch leaf chemistry: are there trade-offs between leaf growth and accumulation of phenolics?. Oecologia, 2002, 130, 380-390.	2.0	232
2	Biosynthetic origin of carbon-based secondary compounds: cause of variable responses of woody plants to fertilization?. Chemoecology, 1998, 8, 133-139.	1.1	155
3	Characterisation of hydrolysable tannins from leaves of Betula pubescens by high-performance liquid chromatographyâ€“mass spectrometry. Journal of Chromatography A, 1999, 864, 283-291.	3.7	148
4	Seasonal variation in the content of hydrolysable tannins in leaves of Betula pubescens. Phytochemistry, 2001, 57, 15-22.	2.9	140
5	Variation of total phenolic content and individual low-molecular-weight phenolics in foliage of mountain birch trees (Betula pubescens ssp.tortuosa). Journal of Chemical Ecology, 1996, 22, 2023-2040.	1.8	125
6	Analysis of procyanidins in pine bark with reversed-phase and normal-phase high-performance liquid chromatographyâ€“electrospray ionization mass spectrometry. Analytica Chimica Acta, 2004, 522, 105-112.	5.4	118
7	Gallic acid and hydrolysable tannins are formed in birch leaves from an intermediate compound of the shikimate pathway. Biochemical Systematics and Ecology, 2003, 31, 3-16.	1.3	116
8	Multiplicity of biochemical factors determining quality of growing birch leaves. Oecologia, 1999, 120, 102-112.	2.0	114
9	Delayed induced changes in the biochemical composition of host plant leaves during an insect outbreak. Oecologia, 1998, 116, 182-190.	2.0	101
10	Phenolic and phenolic-related factors as determinants of suitability of mountain birch leaves to an herbivorous insect. Biochemical Systematics and Ecology, 2001, 29, 223-240.	1.3	100
11	Proanthocyanidins of mountain birch leaves: quantification and properties. Phytochemical Analysis, 2001, 12, 128-133.	2.4	80
12	Effects of host shading on consumption and growth of the geometrid Epirrita autumnata : interactive roles of water, primary and secondary compounds. Oikos, 2003, 103, 3-16.	2.7	79
13	Interactive effects of leaf maturation and phenolics on consumption and growth of a geometrid moth. Entomologia Experimentalis Et Applicata, 2002, 104, 125-136.	1.4	77
14	High-performance liquid chromatographic separation and identification of phenolic compounds from leaves of Betula pubescens and Betula pendula. Journal of Chromatography A, 1996, 721, 59-68.	3.7	75
15	Covariation of fluctuating asymmetry, herbivory and chemistry during birch leaf expansion. Oecologia, 2000, 122, 354-360.	2.0	69
16	Shift in birch leaf metabolome and carbon allocation during long-term open-field ozone exposure. Global Change Biology, 2007, 13, 1053-1067.	9.5	64
17	Foliar Phenolics are Differently Associated with Epirrita autumnata Growth and Immunocompetence. Journal of Chemical Ecology, 2007, 33, 1013-1023.	1.8	64
18	Variation among and within mountain birch trees in foliage phenols, carbohydrates, and amino acids, and in growth ofEpirrita autumnata larvae. Journal of Chemical Ecology, 1995, 21, 1421-1446.	1.8	59

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19	HPLC isolation and identification of flavonoids from white birch Betula pubescens leaves. Biochemical Systematics and Ecology, 1995, 23, 213-222.	1.3	58
20	Gallotannins of birch betula pubescens leaves: HLPC separation and quantification. Biochemical Systematics and Ecology, 1997, 25, 493-504.	1.3	58
21	Systemic induced resistance: a riskâ€spreading strategy in clonal plant networks?. New Phytologist, 2008, 179, 1142-1153.	7.3	48
22	Ranking of individual mountain birch trees in terms of leaf chemistry: seasonal and annual variation. Chemoecology, 2004, 14, 31-43.	1.1	47
23	Application of metabolomics to genotype and phenotype discrimination of birch trees grown in a long-term open-field experiment. Metabolomics, 2008, 4, 39-51.	3.0	47
24	Reversed-phase HPLC-ESI/MS analysis of birch leaf proanthocyanidins after their acidic degradation in the presence of nucleophiles. Phytochemical Analysis, 2007, 18, 378-386.	2.4	46
25	Patterns in content of phenolic compounds in leaves of mountain birches along a strong pollution gradient. Chemosphere, 2001, 45, 291-301.	8.2	44
26	Needle metabolome, freezing tolerance and gas exchange in Norway spruce seedlings exposed to elevated temperature and ozone concentration. Tree Physiology, 2012, 32, 1102-1112.	3.1	41
27	Quantitative analysis of polymeric proanthocyanidins in birch leaves with normal-phase HPLC. Phytochemical Analysis, 2006, 17, 149-156.	2.4	40
28	Defensive Effect of Surface Flavonoid Aglycones of Betula pubescens Leaves Against First Instar Epirrita autumnata Larvae. Journal of Chemical Ecology, 2004, 30, 2257-2268.	1.8	38
29	Concentrations and among-compound correlations of individual phenolics in white birch leaves under air pollution stress. Chemosphere, 1998, 37, 1445-1456.	8.2	33
30	Delayed induced responses of birch glandular trichomes and leaf surface lipophilic compounds to mechanical defoliation and simulated winter browsing. Oecologia, 2005, 146, 385-393.	2.0	33
31	Rapid Herbivore-Induced Changes in Mountain Birch Phenolics and Nutritive Compounds and Their Effects on Performance of the Major Defoliator, Epirrita autumnata. Journal of Chemical Ecology, 2004, 30, 303-321.	1.8	32
32	A short-lived herbivore on a long-lived host: tree resistance to herbivory depends on leaf age. Oikos, 2005, 108, 99-104.	2.7	32
33	Effect of cold hardening on the phenolic complex of winter wheat leaves. Russian Journal of Plant Physiology, 2006, 53, 495-500.	1.1	32
34	Distribution Of Hydrolysable Tannins In The Foliage Of Finnish Birch Species. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2002, 57, 248-256.	1.4	31
35	Foliar oxidases as mediators of the rapidly induced resistance of mountain birch against Epirrita autumnata. Oecologia, 2008, 154, 725-730.	2.0	31
36	The offline combination of thin-layer chromatography and high-performance liquid chromatography with diode array detection and micrOTOF-Q mass spectrometry for the separation and identification of spinochromes from sea urchin (Strongylocentrotus droebachiensis) shells. Journal of Chromatography A, 2011, 1218, 9111-9114.	3.7	29

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37	Effects of Resource Availability on Carbon Allocation and Developmental Instability in Cloned Birch Seedlings. International Journal of Plant Sciences, 2000, 161, 119-125.	1.3	25
38	Effects of simulated winter browsing on mountain birch foliar chemistry and on the performance of insect herbivores. Oikos, 2005, 111, 221-234.	2.7	22
39	Phenolics from the culms of five bamboo species in the Tangjiahe and Wolong Giant Panda Reserves, Sichuan, China. Biochemical Systematics and Ecology, 2008, 36, 758-765.	1.3	21
40	Broad-specificity quinate (shikimate) dehydrogenasefrom Pinus taeda needles. Plant Physiology and Biochemistry, 2000, 38, 923-928.	5.8	19
41	Effects of Elevated Carbon Dioxide and Ozone on Foliar Proanthocyanidins in Betula platyphylla, Betula ermanii, and Fagus crenata Seedlings. Journal of Chemical Ecology, 2006, 32, 1445-1458.	1.8	17
42	Amino acids during development of mountain birch leaves. Chemoecology, 2003, 13, 95-101.	1.1	16
43	Low molecular mass phenolics in foliage of Betula pubescens Ehrh. in relation to aerial pollution. Chemosphere, 1997, 34, 687-697.	8.2	15
44	The effect of simulated acid rain on the biochemical composition of Scots pine (Pinus sylvestris L.) needles. Environmental Pollution, 1996, 92, 315-321.	7.5	12
45	Biochemical transformation of birch leaf phenolics in larvae of six species of sawflies. Chemoecology, 2005, 15, 153-159.	1.1	12
46	Quinate:NAP(P)+-oxidoreductase from Larix sibirica: purification, characterization and function. Trees - Structure and Function, 1995, 10, 46.	1.9	11
47	Biochemical and growth acclimation of birch to night temperatures: genotypic similarities and differences. Plant Biology, 2013, 15, 36-43.	3.8	11
48	Additive genetic variation of secondary and primary metabolites in mountain birch. Oikos, 2006, 112, 382-391.	2.7	10
49	Effects of three yearsâ€™ increase in density of the geometrid Epirrita autumnata on the change in metabolome of mountain birch trees (Betula pubescens ssp. czerepanovii). Chemoecology, 2014, 24, 201-214.	1.1	8
50	Differences in the relationship between metabolomic and ionomic traits of Quercus variabilis growing at contrasting geologic-phosphorus sites in subtropics. Plant and Soil, 2019, 439, 339-355.	3.7	8
51	Title is missing!. Journal of Insect Behavior, 2002, 15, 649-657.	0.7	7
52	Variable responses of folivorous sawflies to leaf quality of mountain birch. Canadian Journal of Forest Research, 2005, 35, 189-198.	1.7	7
53	Do warmer growing seasons ameliorate the recovery of mountain birches after winter moth outbreak?. Trees - Structure and Function, 2012, 26, 809-819.	1.9	7
54	UPLC-PDA-Q Exactive Orbitrap-MS profiling of the lipophilic compounds product isolated from Eucalyptus viminalis plants. Heliyon, 2020, 6, e05768.	3.2	7

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55	The regulating effect of light on the content of flavan-3-ols and derivatives of hydroxybenzoic acids in the callus culture of the tea plant, Camellia sinensis L. Biochemical Systematics and Ecology, 2022, 101, 104383.	1.3	7
56	Quantifying variation and chemical correlates of bladderwrack quality - herbivore population makes a difference. Functional Ecology, 2011, 25, 900-909.	3.6	6
57	Ellagitannins: defences of Betula nana against Epirrita autumnata folivory?. Agricultural and Forest Entomology, 2013, 15, 187-196.	1.3	6
58	Comparative stability of dimeric and monomeric pigments extracted from sea urchin Strongylocentrotus droebachiensis. Natural Product Research, 2017, 31, 1747-1751.	1.8	6
59	Flavonoid Metabolites in the Hemolymph of European Pine Sawfly (Neodiprion sertifer) Larvae. Journal of Chemical Ecology, 2012, 38, 538-546.	1.8	5
60	A long-term study of the effects of simulated acid rain on birch leaf phenolics. Chemosphere, 1998, 36, 639-644.	8.2	3
61	Metabolite Composition of Paper Birch Buds after Eleven Growing Seasons of Exposure to Elevated CO2 and O3. Forests, 2020, 11, 330.	2.1	3
62	Interactive effects of leaf maturation and phenolics on consumption and growth of a geometrid moth. , 2002, , 125-136.		3
63	Delayed greening of mountain birch leaves:Ecological and chemical correlates. Ecoscience, 2001, 8, 68-75.	1.4	2
64	Shift in birch leaf metabolome and carbon allocation during long-term open-field ozone exposure. Global Change Biology, 2007, .	9.5	1