Riitta Julkunen-Tiitto

List of Publications by Year
in descending order

75 papers	3,510 citations	87888 38 h-index	155660 55 g-index
75 all docs	75 docs citations	75 times ranked	3601 citing authors

#	Article	IF	Citations
1	Testing the effects of drying methods on willow flavonoids, tannins, and salicylates. , 2001, 27, 779-789.		171
2	Climate Change Effects on Secondary Compounds of Forest Trees in the Northern Hemisphere. Frontiers in Plant Science, 2018, 9, 1445.	3.6	135
3	TRADE-OFFS IN PHENOLIC METABOLISM OF SILVER BIRCH: EFFECTS OF FERTILIZATION, DEFOLIATION, AND GENOTYPE. Ecology, 1999, 80, 1970-1986.	3.2	118
4	HERBIVORE RESISTANCE INBETULA PENDULA: EFFECT OF FERTILIZATION, DEFOLIATION, AND PLANT GENOTYPE. Ecology, 2000, 81, 49-65.	3.2	113
5	Carbon-nutrient balance hypothesis in within-species phytochemical variation ofSalix lasiolepis. Journal of Chemical Ecology, 1989, 15, 1117-1131.	1.8	97
6	Accumulation of phenolic compounds in birch leaves is changed by elevated carbon dioxide and ozone. Global Change Biology, 2005, 11, 1305-1324.	9.5	96
7	The effects of long-term elevated UV-B on the growth and phenolics of field-grown silver birch (Betula pendula). Global Change Biology, 2001, 7, 839-848.	9.5	94
8	Variation in Phenolic Compounds within a Birch (Betula pendula) Population. Journal of Chemical Ecology, 2000, 26, 1609-1622.	1.8	92
9	The effect of elevated CO2 and temperature on the secondary chemistry of Betula pendula seedlings. Trees - Structure and Function, 2001, 15, 378-384.	1.9	89
10	Combined enhancements of temperature and UVB influence growth and phenolics in clones of the sexually dimorphic Salix myrsinifolia. Physiologia Plantarum, 2012, 145, 551-564.	5.2	87
11	Sex-related differences in growth and carbon allocation to defence in Populus tremula as explained by current plant defence theories. Tree Physiology, 2014, 34, 471-487.	3.1	84
12	Allocation of carbon to growth and secondary metabolites in birch seedlings under UV-B radiation and CO2 exposure. Physiologia Plantarum, 2000, 109, 260-267.	5.2	82
13	HOST PREFERENCE AND LARVAL PERFORMANCE OF THE SALICYLATE-USING LEAF BEETLEPHRATORA VITELLINAE. Ecology, 1998, 79, 618-631.	3.2	75
14	Growth and defense in deciduous trees and shrubs under UV-B. Environmental Pollution, 2005, 137, 404-414.	7.5	75
15	Multiple plant traits shape the genetic basis of herbivore community assembly. Functional Ecology, 2015, 29, 995-1006.	3.6	74
16	The effect of u.v.-B radiation on u.v.-absorbing secondary metabolites in birch seedlings grown under simulated forest soil conditions. New Phytologist, 1997, 137, 617-621.	7.3	73
17	Title is missing!. Journal of Chemical Ecology, 1999, 25, 943-953.	1.8	73
18	Environmental control and intersite variations of phenolics in Betula nana in tundra ecosystems. New Phytologist, 2001, 151, 227-236.	7.3	66

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19	Quantitative changes in secondary metabolites of dark-leaved willow (Salix myrsinifolia) exposed to enhanced ultraviolet-B radiation. Physiologia Plantarum, 2001, 113, 541-547.	5.2	66
20	Willow genotype, but not drought treatment, affects foliar phenolic concentrations and leaf-beetle resistance. Entomologia Experimentalis Et Applicata, 2004, 113, 1-14.	1.4	64
21	Growth, structure, stomatal responses and secondary metabolites of birch seedlings (Betula) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.9	63
22	Genetic specificity of a plantâ€“insect food web: Implications for linking genetic variation to network complexity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2128-2133.	7.1	63
23	Effect of Sample Preparation Method on Birch (Betula pendula Roth) Leaf Phenolics. Journal of Agricultural and Food Chemistry, 1996, 44, 2724-2727.	5.2	61
24	Does nitrogen fertilization have an impact on the trade-off between willow growth and defensive secondary metabolism?. Trees - Structure and Function, 1995, 9, 235.	1.9	59
25	UV-B induces usnic acid in reindeer lichens. Lichenologist, 2006, 38, 477-485.	0.8	56
26	Interactive effects of supplemental UV-B and temperature in European aspen seedlings: Implications for growth, leaf traits, phenolic defense and associated organisms. Plant Physiology and Biochemistry, 2015, 93, 84-93.	5.8	56
27	Combined effect of elevated <scp>UVB</scp>, elevated temperature and fertilization on growth, needle structure and phytochemistry of young Norway spruce (Picea abies) seedlings. Global Change Biology, 2014, 20, 2252-2260.	9.5	55
28	Silicon, endophytes and secondary metabolites as grass defenses against mammalian herbivores. Frontiers in Plant Science, 2014, 5, 478.	3.6	53
29	To each its own: differential response of specialist and generalist herbivores to plant defence in willows. Journal of Animal Ecology, 2015, 84, 1123-1132.	2.8	53
30	Trade-off between synthesis of salicylates and growth of micropropagated Salix pentandra. Journal of Chemical Ecology, 2003, 29, 1565-1588.	1.8	50
31	HOST PREFERENCE AND ALLOZYME DIFFERENTIATION IN SHOOT GALLING SAWFLY, EUURA ATRA. Evolution; International Journal of Organic Evolution, 1993, 47, 300-308.	2.3	49
32	In vitro degradation of willow salicylates. Journal of Chemical Ecology, 2003, 29, 1083-1097.	1.8	48
33	Phenolic compounds in seedlings of Betula pubescens and B. pendula are affected by enhanced UVB radiation and different nitrogen regimens during early ontogeny. Global Change Biology, 2005, 11, 1180-1194.	9.5	46
34	Inhibition of Î²-Glucosidase and Esterase by Tannins from Betula, Salix, and Pinus Species. Journal of Chemical Ecology, 2000, 26, 1151-1165.	1.8	44
35	Clone-specific responses in leaf phenolics of willows exposed to enhanced UVB radiation and drought stress. Global Change Biology, 2005, 11, 1655-1663.	9.5	44
36	Effects of elevated CO2 and O3 on leaf litter phenolics and subsequent performance of litter-feeding soil macrofauna. Plant and Soil, 2007, 292, 25-43.	3.7	43

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37	Combination treatment of elevated UVB radiation, CO₂ and temperature has little effect on silver birch (Betula pendula) growth and phytochemistry. Physiologia Plantarum, 2013, 149, 499-514.	5.2	41
38	Effects of elevated carbon dioxide and ozone on aphid oviposition preference and birch bud exudate phenolics. Global Change Biology, 2006, 12, 1670-1679.	9.5	40
39	Assessment of UV Biological Spectral Weighting Functions for Phenolic Metabolites and Growth Responses in Silver Birch Seedlings. Photochemistry and Photobiology, 2009, 85, 1346-1355.	2.5	39
40	Elevated CO2 alters birch resistance to Lagomorpha herbivores. Global Change Biology, 2004, 10, 1402-1413.	9.5	37
41	Quantitative metabolite profiling of edible onion species by NMR and HPLCâ€“MS. Food Chemistry, 2014, 165, 499-505.	8.2	37
42	Boron mobility in deciduous forest trees in relation to their polyols. New Phytologist, 2004, 163, 333-339.	7.3	36
43	Leaf litter from insectâ€resistant transgenic trees causes changes in aquatic insect community composition. Journal of Applied Ecology, 2011, 48, 1472-1479.	4.0	36
44	The role of UV-B radiation in plant sexual reproduction. Perspectives in Plant Ecology, Evolution and Systematics, 2015, 17, 243-254.	2.7	35
45	Costs of herbivore resistance in clonal saplings of Betula pendula. Oecologia, 2002, 133, 364-371.	2.0	30
46	Leaf phenolics of three willow clones differing in resistance to Melampsora rust infection. Physiologia Plantarum, 1999, 105, 662-669.	5.2	29
47	Darkâ€leaved willow (Salix myrsinifolia) is resistant to threeâ€factor (elevated CO₂,) Tj ETQq1 1 0.784314 rgBT /Ov	7.3	27
48	The effect of warming and enhanced ultraviolet radiation on gender-specific emissions of volatile organic compounds from European aspen. Science of the Total Environment, 2016, 547, 39-47.	8.0	27
49	Carotenoid-based colour polyphenism in a moth species: search for fitness correlates. Entomologia Experimentalis Et Applicata, 2007, 124, 269-277.	1.4	26
50	Effects of ultraviolet (UV) exclusion on the seasonal concentration of photosynthetic and UV-screening pigments in Scots pine needles. Global Change Biology, 2007, 13, 252-265.	9.5	26
51	Stilbene impregnation retards brown-rot decay of Scots pine sapwood. Holzforschung, 2016, 70, 261-266.	1.9	26
52	Do elevated atmospheric CO₂ and O₃ affect food quality and performance of folivorous insects on silver birch?. Global Change Biology, 2010, 16, 918-935.	9.5	25
53	Phenolic compounds in Norway spruce as affected by boron nutrition at the end of the growing season. Plant and Soil, 2007, 292, 13-23.	3.7	24
54	Responses of growth and leaf phenolics in European aspen (Populus tremula) to climate change during juvenile phase change. Canadian Journal of Forest Research, 2017, 47, 1350-1363.	1.7	23

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55	Mother really knows best: host choice of adult phytophagous insect females reflects a within-host variation in suitability as larval food. Chemoecology, 2010, 20, 35-42.	1.1	22
56	Can Leaf Litter from Genetically Modified Trees Affect Aquatic Ecosystems?. Ecosystems, 2010, 13, 1049-1059.	3.4	22
57	Blue Mood for Superfood. Natural Product Communications, 2013, 8, 1934578X1300800.	0.5	22
58	Estimating direct resistance in willows against a major insect pest, Phratora vulgatissima, by comparing life history traits. Entomologia Experimentalis Et Applicata, 2012, 144, 93-100.	1.4	21
59	Responses of Strawberry (FragariaÃ—ananassa) to Supplemental UV-B Radiation and Selenium Under Field Conditions. Plant and Soil, 2006, 282, 27-39.	3.7	20
60	Does the Growth Differentiation Balance Hypothesis Explain Allocation to Secondary Metabolites in Combretum apiculatum , an African Savanna Woody Species?. Journal of Chemical Ecology, 2017, 43, 153-163.	1.8	20
61	Leaf ontogeny interacts with Bt modification to affect innate resistance in GM aspens. Chemoecology, 2011, 21, 161-169.	1.1	15
62	Herbivores and variation in the composition of specific phenolics of boreal coniferous trees: a search for patterns. Chemoecology, 2010, 20, 229-242.	1.1	14
63	Phenolic Compounds and Expression of 4CL Genes in Silver Birch Clones and Pt4CL1a Lines. PLoS ONE, 2014, 9, e114434.	2.5	14
64	Preference-performance relationship in the gall midge Rabdophaga rosaria: insights from a common-garden experiment with nine willow clones. Ecological Entomology, 2011, 36, 200-211.	2.2	13
65	Insect herbivores drive the loss of unique chemical defense in willows. Entomologia Experimentalis Et Applicata, 2015, 156, 88-98.	1.4	13
66	The vegetative buds of Salix myrsinifolia are responsive to elevated UV-B and temperature. Plant Physiology and Biochemistry, 2015, 93, 66-73.	5.8	13
67	Effect of different nitrogen nutrients on the viability, protein synthesis and tannin production of Scots pine callus. Physiologia Plantarum, 1997, 100, 982-988.	5.2	12
68	Growth and defence of aspen (Populus tremula) after three seasons under elevated temperature and ultraviolet-B radiation. Canadian Journal of Forest Research, 2018, 48, 629-641.	1.7	11
69	Host Genetics and Environment Drive Divergent Responses of Two Resource Sharing Gall-Formers on Norway Spruce: A Common Garden Analysis. PLoS ONE, 2015, 10, e0142257.	2.5	10
70	High daytime temperature delays autumnal bud formation inPopulus tremulaunder field conditions. Tree Physiology, 2016, 37, 71-81.	3.1	9
71	Dryâ€air drying at room temperature â€“ a practical preâ€treatment method of tree leaves for quantitative analyses of phenolics?. Phytochemical Analysis, 2018, 29, 493-499.	2.4	9
72	Long-term effects of boron and copper on phenolics and monoterpenes in Scots pine (Pinus sylvestris) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.7	7

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73	Decreased anthocyanidin reductase expression strongly decreases silver birch (Betula pendula) growth and alters accumulation of phenolics. Physiologia Plantarum, 2015, 155, 384-399.	5.2	6
74	Phytochemical Shift from Condensed Tannins to Flavonoids in Transgenic Betula pendula Decreases Consumption and Growth but Improves Growth Efficiency of Epirrita autumnata Larvae. Journal of Chemical Ecology, 2020, 46, 217-231.	1.8	6
75	Genetic modification of the flavonoid pathway alters growth and reveals flexible responses to enhanced UVB â€“ Role of foliar condensed tannins. Plant-Environment Interactions, 2021, 2, 1-15.	1.5	0