

Riitta Julkunen-Tiitto

List of Publications by Year in descending order

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75
papers

3,510
citations

87843

38
h-index

155592

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. <i>Frontiers in Plant Science</i> , 2018, 9, 1445.	1.7	135
3	TRADE-OFFS IN PHENOLIC METABOLISM OF SILVER BIRCH: EFFECTS OF FERTILIZATION, DEFOLIATION, AND GENOTYPE. <i>Ecology</i> , 1999, 80, 1970-1986.	1.5	118
4	HERBIVORE RESISTANCE IN <i>BETULA PENDULA</i> : EFFECT OF FERTILIZATION, DEFOLIATION, AND PLANT GENOTYPE. <i>Ecology</i> , 2000, 81, 49-65.	1.5	113
5	Carbon-nutrient balance hypothesis in within-species phytochemical variation of <i>Salix lasiolepis</i> . <i>Journal of Chemical Ecology</i> , 1989, 15, 1117-1131.	0.9	97
6	Accumulation of phenolic compounds in birch leaves is changed by elevated carbon dioxide and ozone. <i>Global Change Biology</i> , 2005, 11, 1305-1324.	4.2	96
7	The effects of long-term elevated UV-B on the growth and phenolics of field-grown silver birch (<i>Betula pendula</i>). <i>Global Change Biology</i> , 2001, 7, 839-848.	4.2	94
8	Variation in Phenolic Compounds within a Birch (<i>Betula pendula</i>) Population. <i>Journal of Chemical Ecology</i> , 2000, 26, 1609-1622.	0.9	92
9	The effect of elevated CO ₂ and temperature on the secondary chemistry of <i>Betula pendula</i> seedlings. <i>Trees - Structure and Function</i> , 2001, 15, 378-384.	0.9	89
10	Combined enhancements of temperature and UVB influence growth and phenolics in clones of the sexually dimorphic <i>Salix myrsinifolia</i> . <i>Physiologia Plantarum</i> , 2012, 145, 551-564.	2.6	87
11	Sex-related differences in growth and carbon allocation to defence in <i>Populus tremula</i> as explained by current plant defence theories. <i>Tree Physiology</i> , 2014, 34, 471-487.	1.4	84
12	Allocation of carbon to growth and secondary metabolites in birch seedlings under UV-B radiation and CO ₂ exposure. <i>Physiologia Plantarum</i> , 2000, 109, 260-267.	2.6	82
13	HOST PREFERENCE AND LARVAL PERFORMANCE OF THE SALICYLATE-USING LEAF BEETLE PHRATORA VITELLINAE. <i>Ecology</i> , 1998, 79, 618-631.	1.5	75
14	Growth and defense in deciduous trees and shrubs under UV-B. <i>Environmental Pollution</i> , 2005, 137, 404-414.	3.7	75
15	Multiple plant traits shape the genetic basis of herbivore community assembly. <i>Functional Ecology</i> , 2015, 29, 995-1006.	1.7	74
16	The effect of u.v.-B radiation on u.v.-absorbing secondary metabolites in birch seedlings grown under simulated forest soil conditions. <i>New Phytologist</i> , 1997, 137, 617-621.	3.5	73
17	Title is missing!. <i>Journal of Chemical Ecology</i> , 1999, 25, 943-953.	0.9	73
18	Environmental control and intersite variations of phenolics in <i>Betula nana</i> in tundra ecosystems. <i>New Phytologist</i> , 2001, 151, 227-236.	3.5	66

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19	Quantitative changes in secondary metabolites of dark-leaved willow (<i>Salix myrsinifolia</i>) exposed to enhanced ultraviolet-B radiation. <i>Physiologia Plantarum</i> , 2001, 113, 541-547.	2.6	66
20	Willow genotype, but not drought treatment, affects foliar phenolic concentrations and leaf-beetle resistance. <i>Entomologia Experimentalis Et Applicata</i> , 2004, 113, 1-14.	0.7	64
21	Growth, structure, stomatal responses and secondary metabolites of birch seedlings (<i>Betula</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	63
22	Genetic specificity of a plant–insect food web: Implications for linking genetic variation to network complexity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2128-2133.	3.3	63
23	Effect of Sample Preparation Method on Birch (<i>Betula pendula</i> Roth) Leaf Phenolics. <i>Journal of Agricultural and Food Chemistry</i> , 1996, 44, 2724-2727.	2.4	61
24	Does nitrogen fertilization have an impact on the trade-off between willow growth and defensive secondary metabolism?. <i>Trees - Structure and Function</i> , 1995, 9, 235.	0.9	59
25	UV-B induces usnic acid in reindeer lichens. <i>Lichenologist</i> , 2006, 38, 477-485.	0.5	56
26	Interactive effects of supplemental UV-B and temperature in European aspen seedlings: Implications for growth, leaf traits, phenolic defense and associated organisms. <i>Plant Physiology and Biochemistry</i> , 2015, 93, 84-93.	2.8	56
27	Combined effect of elevated UVB, elevated temperature and fertilization on growth, needle structure and phytochemistry of young Norway spruce (<i>Picea abies</i>) seedlings. <i>Global Change Biology</i> , 2014, 20, 2252-2260.	4.2	55
28	Silicon, endophytes and secondary metabolites as grass defenses against mammalian herbivores. <i>Frontiers in Plant Science</i> , 2014, 5, 478.	1.7	53
29	To each its own: differential response of specialist and generalist herbivores to plant defence in willows. <i>Journal of Animal Ecology</i> , 2015, 84, 1123-1132.	1.3	53
30	Trade-off between synthesis of salicylates and growth of micropropagated <i>Salix pentandra</i> . <i>Journal of Chemical Ecology</i> , 2003, 29, 1565-1588.	0.9	50
31	HOST PREFERENCE AND ALLOZYME DIFFERENTIATION IN SHOOT GALLING SAWFLY, EUURA ATRA. <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 300-308.	1.1	49
32	In vitro degradation of willow salicylates. <i>Journal of Chemical Ecology</i> , 2003, 29, 1083-1097.	0.9	48
33	Phenolic compounds in seedlings of <i>Betula pubescens</i> and <i>B. pendula</i> are affected by enhanced UVB radiation and different nitrogen regimens during early ontogeny. <i>Global Change Biology</i> , 2005, 11, 1180-1194.	4.2	46
34	Inhibition of β -Glucosidase and Esterase by Tannins from <i>Betula</i> , <i>Salix</i> , and <i>Pinus</i> Species. <i>Journal of Chemical Ecology</i> , 2000, 26, 1151-1165.	0.9	44
35	Clone-specific responses in leaf phenolics of willows exposed to enhanced UVB radiation and drought stress. <i>Global Change Biology</i> , 2005, 11, 1655-1663.	4.2	44
36	Effects of elevated CO ₂ and O ₃ on leaf litter phenolics and subsequent performance of litter-feeding soil macrofauna. <i>Plant and Soil</i> , 2007, 292, 25-43.	1.8	43

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37	Combination treatment of elevated UVB radiation, CO ₂ and temperature has little effect on silver birch (<i>Betula pendula</i>) growth and phytochemistry. <i>Physiologia Plantarum</i> , 2013, 149, 499-514.	2.6	41
38	Effects of elevated carbon dioxide and ozone on aphid oviposition preference and birch bud exudate phenolics. <i>Global Change Biology</i> , 2006, 12, 1670-1679.	4.2	40
39	Assessment of UV Biological Spectral Weighting Functions for Phenolic Metabolites and Growth Responses in Silver Birch Seedlings. <i>Photochemistry and Photobiology</i> , 2009, 85, 1346-1355.	1.3	39
40	Elevated CO ₂ alters birch resistance to Lagomorpha herbivores. <i>Global Change Biology</i> , 2004, 10, 1402-1413.	4.2	37
41	Quantitative metabolite profiling of edible onion species by NMR and HPLC-MS. <i>Food Chemistry</i> , 2014, 165, 499-505.	4.2	37
42	Boron mobility in deciduous forest trees in relation to their polyols. <i>New Phytologist</i> , 2004, 163, 333-339.	3.5	36
43	Leaf litter from insect-resistant transgenic trees causes changes in aquatic insect community composition. <i>Journal of Applied Ecology</i> , 2011, 48, 1472-1479.	1.9	36
44	The role of UV-B radiation in plant sexual reproduction. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2015, 17, 243-254.	1.1	35
45	Costs of herbivore resistance in clonal saplings of <i>Betula pendula</i> . <i>Oecologia</i> , 2002, 133, 364-371.	0.9	30
46	Leaf phenolics of three willow clones differing in resistance to <i>Melampsora</i> rust infection. <i>Physiologia Plantarum</i> , 1999, 105, 662-669.	2.6	29
47	Dark-leaved willow (<i>Salix myrsinifolia</i>) is resistant to three-factor (elevated CO ₂ , Tj ETQq1 1 0.784314 rgBT / Ov	3.5	27
48	The effect of warming and enhanced ultraviolet radiation on gender-specific emissions of volatile organic compounds from European aspen. <i>Science of the Total Environment</i> , 2016, 547, 39-47.	3.9	27
49	Carotenoid-based colour polyphenism in a moth species: search for fitness correlates. <i>Entomologia Experimentalis Et Applicata</i> , 2007, 124, 269-277.	0.7	26
50	Effects of ultraviolet (UV) exclusion on the seasonal concentration of photosynthetic and UV-screening pigments in Scots pine needles. <i>Global Change Biology</i> , 2007, 13, 252-265.	4.2	26
51	Stilbene impregnation retards brown-rot decay of Scots pine sapwood. <i>Holzforschung</i> , 2016, 70, 261-266.	0.9	26
52	Do elevated atmospheric CO ₂ and O ₃ affect food quality and performance of folivorous insects on silver birch?. <i>Global Change Biology</i> , 2010, 16, 918-935.	4.2	25
53	Phenolic compounds in Norway spruce as affected by boron nutrition at the end of the growing season. <i>Plant and Soil</i> , 2007, 292, 13-23.	1.8	24
54	Responses of growth and leaf phenolics in European aspen (<i>Populus tremula</i>) to climate change during juvenile phase change. <i>Canadian Journal of Forest Research</i> , 2017, 47, 1350-1363.	0.8	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. <i>Chemoecology</i> , 2010, 20, 35-42.	0.6	22
56	Can Leaf Litter from Genetically Modified Trees Affect Aquatic Ecosystems?. <i>Ecosystems</i> , 2010, 13, 1049-1059.	1.6	22
57	Blue Mood for Superfood. <i>Natural Product Communications</i> , 2013, 8, 1934578X1300800.	0.2	22
58	Estimating direct resistance in willows against a major insect pest, <i>Phratora vulgatissima</i> , by comparing life history traits. <i>Entomologia Experimentalis Et Applicata</i> , 2012, 144, 93-100.	0.7	21
59	Responses of Strawberry (<i>Fragaria ananassa</i>) to Supplemental UV-B Radiation and Selenium Under Field Conditions. <i>Plant and Soil</i> , 2006, 282, 27-39.	1.8	20
60	Does the Growth Differentiation Balance Hypothesis Explain Allocation to Secondary Metabolites in <i>Combretum apiculatum</i> , an African Savanna Woody Species?. <i>Journal of Chemical Ecology</i> , 2017, 43, 153-163.	0.9	20
61	Leaf ontogeny interacts with Bt modification to affect innate resistance in GM aspens. <i>Chemoecology</i> , 2011, 21, 161-169.	0.6	15
62	Herbivores and variation in the composition of specific phenolics of boreal coniferous trees: a search for patterns. <i>Chemoecology</i> , 2010, 20, 229-242.	0.6	14
63	Phenolic Compounds and Expression of 4CL Genes in Silver Birch Clones and Pt4CL1a Lines. <i>PLoS ONE</i> , 2014, 9, e114434.	1.1	14
64	Preference-performance relationship in the gall midge <i>Rabdophaga rosaria</i> : insights from a common-garden experiment with nine willow clones. <i>Ecological Entomology</i> , 2011, 36, 200-211.	1.1	13
65	Insect herbivores drive the loss of unique chemical defense in willows. <i>Entomologia Experimentalis Et Applicata</i> , 2015, 156, 88-98.	0.7	13
66	The vegetative buds of <i>Salix myrsinifolia</i> are responsive to elevated UV-B and temperature. <i>Plant Physiology and Biochemistry</i> , 2015, 93, 66-73.	2.8	13
67	Effect of different nitrogen nutrients on the viability, protein synthesis and tannin production of Scots pine callus. <i>Physiologia Plantarum</i> , 1997, 100, 982-988.	2.6	12
68	Growth and defence of aspen (<i>Populus tremula</i>) after three seasons under elevated temperature and ultraviolet-B radiation. <i>Canadian Journal of Forest Research</i> , 2018, 48, 629-641.	0.8	11
69	Host Genetics and Environment Drive Divergent Responses of Two Resource Sharing Gall-Formers on Norway Spruce: A Common Garden Analysis. <i>PLoS ONE</i> , 2015, 10, e0142257.	1.1	10
70	High daytime temperature delays autumnal bud formation in <i>Populus tremula</i> under field conditions. <i>Tree Physiology</i> , 2016, 37, 71-81.	1.4	9
71	Dry-air drying at room temperature – a practical pre-treatment method of tree leaves for quantitative analyses of phenolics?. <i>Phytochemical Analysis</i> , 2018, 29, 493-499.	1.2	9
72	Long-term effects of boron and copper on phenolics and monoterpenes in Scots pine (<i>Pinus sylvestris</i>)	1.8	7

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73	Decreased anthocyanidin reductase expression strongly decreases silver birch (<i>Betula pendula</i>) growth and alters accumulation of phenolics. <i>Physiologia Plantarum</i> , 2015, 155, 384-399.	2.6	6
74	Phytochemical Shift from Condensed Tannins to Flavonoids in Transgenic <i>Betula pendula</i> Decreases Consumption and Growth but Improves Growth Efficiency of <i>Epirrita autumnata</i> Larvae. <i>Journal of Chemical Ecology</i> , 2020, 46, 217-231.	0.9	6
75	Genetic modification of the flavonoid pathway alters growth and reveals flexible responses to enhanced UVB – Role of foliar condensed tannins. <i>Plant-Environment Interactions</i> , 2021, 2, 1-15.	0.7	0