Richard L Lindroth

List of Publications by Year
in descending order

195 papers	13,982 citations	22099 59 h-index	24179 110 g-index
198 all docs	198 docs citations	198 times ranked	9882 citing authors

#	Article	IF	Citations
1	Herbivory in global climate change research: direct effects of rising temperature on insect herbivores. Global Change Biology, 2002, 8, 1-16.	4.2	1,956
2	A framework for community and ecosystem genetics: from genes to ecosystems. Nature Reviews Genetics, 2006, 7, 510-523.	7.7	911
3	COMMUNITY AND ECOSYSTEM GENETICS: A CONSEQUENCE OF THE EXTENDED PHENOTYPE. Ecology, 2003, 84, 559-573.	1.5	594
4	Responses of Diciduous Trees to Elevated Atmospheric CO2: Productivity, Phytochemistry, and Insect Performance. Ecology, 1993, 74, 763-777.	1.5	377
5	Genetically based trait in a dominant tree affects ecosystem processes. Ecology Letters, 2004, 7, 127-134.	3.0	327
6	Consequences of Climate Warming and Altered Precipitation Patterns for Plant-Insect and Multitrophic Interactions. Plant Physiology, 2012, 160, 1719-1727.	2.3	279
7	Altered performance of forest pests under atmospheres enriched by CO2 and O3. Nature, 2002, 420, 403-407.	13.7	275
8	Genomeâ€wide analysis of the structural genes regulating defense phenylpropanoid metabolism in Populus. New Phytologist, 2006, 172, 47-62.	3.5	271
9	Impacts of Elevated Atmospheric CO2 and O3 on Forests: Phytochemistry, Trophic Interactions, and Ecosystem Dynamics. Journal of Chemical Ecology, 2010, 36, 2-21.	0.9	228
10	Clonal variation in foliar chemistry of aspen: effects on gypsy moths and forest tent caterpillars. Oecologia, 1997, 111, 99-108.	0.9	183
11	Intraspecific variation in aspen phytochemistry: effects on performance of gypsy moths and forest tent caterpillars. Oecologia, 1995, 103, 79-88.	0.9	174
12	Effects of genotype, nutrient availability, and defoliation on aspen phytochemistry and insect performance. , 2001, 27, 1289-1313.		173
13	From Genes to Ecosystems: The Genetic Basis of Condensed Tannins and Their Role in Nutrient Regulation in a Populus Model System. Ecosystems, 2008, 11, 1005-1020.	1.6	163
14	Genetic Identity of Populus tremuloides Litter Influences Decomposition and Nutrient Release in a Mixed Forest Stand. Ecosystems, 2006, 9, 528-537.	1.6	162
15	Age-Related Shifts in Leaf Chemistry of Clonal Aspen (Populus tremuloides). Journal of Chemical Ecology, 2006, 32, 1415-1429.	0.9	152
16	Chemical Ecology of the Tiger Swallowtail: Mediation of Host Use by Phenolic Glycosides. Ecology, 1988, 69, 814-822.	1.5	150
17	EFFECTS OF CO2AND NO3â^'AVAILABILITY ON DECIDUOUS TREES: PHYTOCHEMISTRY AND INSECT PERFORMANCE. Ecology, 1997, 78, 215-230.	1.5	143
18	Plant phenolics as chemical defenses: Effects of natural phenolics on survival and growth of prairie voles (Microtus ochrogaster). Journal of Chemical Ecology, 1984, 10, 229-244.	0.9	139

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19	Competitionâ€•and resourceâ€mediated tradeoffs between growth and defensive chemistry in trembling aspen (Populus tremuloides). New Phytologist, 2006, 169, 561-570.	3.5	139
20	Foliar quality influences tree-herbivore-parasitoid interactions: effects of elevated CO 2 , O 3 , and plant genotype. Oecologia, 2003, 137, 233-244.	0.9	137
21	Genotype and environment determine allocation to and costs of resistance in quaking aspen. Oecologia, 2006, 148, 293-303.	0.9	137
22	Importance of species interactions to community heritability: a genetic basis to trophic-level interactions. Ecology Letters, 2005, 9, 051122062725008.	3.0	132
23	Adaptations of quaking aspen (Populus tremuloides Michx.) for defense against herbivores. Forest Ecology and Management, 2013, 299, 14-21.	1.4	131
24	Elevated atmospheric CO2: effects on phytochemistry, insect performance and insect-parasitoid interactions. Global Change Biology, 1995, 1, 173-182.	4.2	124
25	Effects of Light and Nutrient Availability on Aspen: Growth, Phytochemistry, and Insect Performance. Journal of Chemical Ecology, 1999, 25, 1687-1714.	0.9	121
26	Effects of CO2 and light on tree phytochemistry and insect performance. Oikos, 2000, 88, 259-272.	1.2	119
27	Host plant genetics affect hidden ecological players: links among Populus, condensed tannins, and fungal endophyte infection. Canadian Journal of Botany, 2005, 83, 356-361.	1.2	119
28	Consequences of elevated carbon dioxide and ozone for foliar chemical composition and dynamics in trembling aspen (Populus tremuloides) and paper birch (Betula papyrifera). Environmental Pollution, 2001, 115, 395-404.	3.7	113
29	BEAVERS AS MOLECULAR GENETICISTS: A GENETIC BASIS TO THE FORAGING OF AN ECOSYSTEM ENGINEER. Ecology, 2004, 85, 603-608.	1.5	113
30	Resistance and tolerance in Populus tremuloides: genetic variation, costs, and environmental dependency. Evolutionary Ecology, 2007, 21, 829-847.	0.5	113
31	GENETICS, ENVIRONMENT, AND THEIR INTERACTION DETERMINE EFFICACY OF CHEMICAL DEFENSE IN TREMBLING ASPEN. Ecology, 2007, 88, 729-739.	1.5	110
32	Seasonal patterns in the phytochemistry of three Populus species. Biochemical Systematics and Ecology, 1987, 15, 681-686.	0.6	100
33	Clonal variation in foliar chemistry of quaking aspen (Populus tremuloides Michx.). Biochemical Systematics and Ecology, 1996, 24, 357-364.	0.6	96
34	Effects of CO2-mediated changes in paper birch and white pine chemistry on gypsy moth performance. Oecologia, 1994, 98, 133-138.	0.9	95
35	Effects of phytochemical variation in quaking aspen Populus tremuloides clones on gypsy moth Lymantria dispar performance in the field and laboratory. Ecological Entomology, 2000, 25, 197-207.	1.1	95
36	Simulated climate warming alters phenological synchrony between an outbreak insect herbivore and host trees. Oecologia, 2014, 175, 1041-1049.	0.9	92

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37	Effects of elevated carbon dioxide and ozone on the phytochemistry of aspen and performance of an herbivore. Oecologia, 2003, 134, 95-103.	0.9	88
38	Induced resistance in the indeterminate growth of aspen (Populus tremuloides). Oecologia, 2005, 145, 297-305.	0.9	88
39	Spectroscopic determination of ecologically relevant plant secondary metabolites. Methods in Ecology and Evolution, 2016, 7, 1402-1412.	2.2	88
40	Long-term effects of defoliation on quaking aspen in relation to genotype and nutrient availability: plant growth, phytochemistry and insect performance. Oecologia, 2004, 139, 55-65.	0.9	86
41	Rising concentrations of atmospheric CO₂ have increased growth in natural stands of quaking aspen (<i>Populus tremuloides</i>). Global Change Biology, 2010, 16, 2186-2197.	4.2	85
42	Enriched atmospheric CO 2 and defoliation: effects on tree chemistry and insect performance. Global Change Biology, 1998, 4, 419-430.	4.2	77
43	Relative importance of genetic, ontogenetic, induction, and seasonal variation in producing a multivariate defense phenotype in a foundation tree species. Oecologia, 2012, 170, 695-707.	0.9	77
44	Imaging spectroscopy links aspen genotype with below-ground processes at landscape scales. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130194.	1.8	73
45	Effects of Phenolic Glycosides and Protein on Gypsy Moth (Lepidoptera: Lymantriidae) and Forest Tent Caterpillar (Lepidoptera: Lasiocampidae) Performance and Detoxication Activities. Environmental Entomology, 2000, 29, 1108-1115.	0.7	72
46	Variation in temperature and dietary nitrogen affect performance of the gypsy moth (Lymantria dispar) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.6	71
47	Developmental Trajectories in Cottonwood Phytochemistry. Journal of Chemical Ecology, 2006, 32, 2269-2285.	0.9	69
48	Experimental climate warming alters aspen and birch phytochemistry and performance traits for an outbreak insect herbivore. Global Change Biology, 2015, 21, 2698-2710.	4.2	69
49	Rapid modulation of ultraviolet shielding in plants is influenced by solar ultraviolet radiation and linked to alterations in flavonoids. Plant, Cell and Environment, 2016, 39, 222-230.	2.8	69
50	Genotypic variation in response of quaking aspen (Populus tremuloides) to atmospheric CO2 enrichment. Oecologia, 2001, 126, 371-379.	0.9	68
51	Biochemical ecology of the forest tent caterpillar: responses to dietary protein and phenolic glycosides. Oecologia, 1991, 86, 408-413.	0.9	67
52	Aphid individual performance may not predict population responses to elevated CO2 or O3. Global Change Biology, 2004, 10, 1414-1423.	4.2	67
53	Characterization of phenolic glycosides from quaking aspen. Biochemical Systematics and Ecology, 1987, 15, 677-680.	0.6	66
54	Responses of the Gypsy Moth (Lepidoptera: Lymantriidae) to Tremulacin, an Aspen Phenolic Glycoside. Environmental Entomology, 1990, 19, 842-847.	0.7	66

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55	CO_2-Mediated Changes in Tree Chemistry and Tree-Lepidoptera Interactions. , 1996, , 105-120.		66
56	Removal of invasive shrubs reduces exotic earthworm populations. Biological Invasions, 2009, 11, 663-671.	1.2	64
57	Independent, Interactive, and Species-Specific Responses of Leaf Litter Decomposition to Elevated CO_2 and O_3 in a Northern Hardwood Forest. Ecosystems, 2008, 11, 505-519.	1.6	63
58	Soil microbial communities adapt to genetic variation in leaf litter inputs. Oikos, 2011, 120, 1696-1704.	1.2	63
59	Coordinated resource allocation to plant growthâ€"defense tradeoffs. New Phytologist, 2022, 233, 1051-1066.	3.5	63
60	CO_2 and O_3 effects on host plant preferences of the forest tent caterpillar (Malacosoma disstria). Global Change Biology, 2005, 11, 588-599.	4.2	62
61	Canopy herbivory can mediate the influence of plant genotype on soil processes through frass deposition. Soil Biology and Biochemistry, 2007, 39, 1192-1201.	4.2	62
62	Fourteen years of population fluctuations of Microtus ochrogaster and M. pennsylvanicus in east central Illinois. Canadian Journal of Zoology, 1987, 65, 1317-1325.	0.4	61
63	Genetic mosaics of ecosystem functioning across aspen-dominated landscapes. Oecologia, 2009, 160, 119-127.	0.9	61
64	Title is missing!. Journal of Chemical Ecology, 1998, 24, 1677-1695.	0.9	59
65	Differential toxicity of a phenolic glycoside from quaking aspen to Papilio glaucus butterfly subspecies, hybrids and backcrosses. Oecologia, 1989, 81, 186-191.	0.9	56
66	Rapid shifts in the chemical composition of aspen forests: an introduced herbivore as an agent of natural selection. Biological Invasions, 2007, 9, 715-722.	1.2	56
67	Elevated atmospheric carbon dioxide and ozone alter forest insect abundance and community composition. Insect Conservation and Diversity, 2008, 1, 233-241.	1.4	55
68	Increased nitrogen availability influences predatorâ€"prey interactions by altering host-plant quality. Chemoecology, 2010, 20, 277-284.	0.6	55
69	Forest gene diversity is correlated with the composition and function of soil microbial communities. Population Ecology, 2011, 53, 35-46.	0.7	55
70	Within- and between-year variation in early season phytochemistry of quaking aspen (Populus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	0.6	54
71	Condensed tannins increase nitrogen recovery by trees following insect defoliation. New Phytologist, 2015, 208, 410-420.	3.5	54
72	Responses of trembling aspen (Populus tremuloides) phytochemistry and aspen blotch leafminer (Phyllonorycter tremuloidiella) performance to elevated levels of atmospheric CO_2 and O_3. Agricultural and Forest Entomology, 2003, 5, 17-26.	0.7	52

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73	Hydrolysis of phenolic glycosides by midgut Î^{2}-glucosidases in Papilio glaucus subspecies. Insect Biochemistry, 1988, 18, 789-792.	1.8	50
74	Aspen Defense Chemicals Influence Midgut Bacterial Community Composition of Gypsy Moth. Journal of Chemical Ecology, 2015, 41, 75-84.	0.9	50
75	Effects of winter temperatures, spring degree-day accumulation, and insect population source on phenological synchrony between forest tent caterpillar and host trees. Forest Ecology and Management, 2016, 362, 241-250.	1.4	50
76	Genetic variation in response of the gypsy moth to aspen phenolic glycosides. Biochemical Systematics and Ecology, 1991, 19, 97-103.	0.6	49
77	Divergent pheromone-mediated insect behaviour under global atmospheric change. Global Change Biology, 2004, 10, 1820-1824.	4.2	49
78	Nutrient deficiencies and the gypsy moth, Lymantria dispar: Effects on larval performance and detoxication enzyme activities. Journal of Insect Physiology, 1991, 37, 45-52.	0.9	48
79	Extrafloral Nectaries in Aspen (Populus tremuloides): Heritable Genetic Variation and Herbivore-induced Expression. Annals of Botany, 2007, 100, 1337-1346.	1.4	48
80	Effects of variable phytochemistry and budbreak phenology on defoliation of aspen during a forest tent caterpillar outbreak. Agricultural and Forest Entomology, 2008, 10, 399-410.	0.7	48
81	Aspen Decline, Aspen Chemistry, and Elk Herbivory: Are They Linked?. Rangelands, 2008, 30, 17-21.	0.9	48
82	Atmospheric change alters foliar quality of host trees and performance of two outbreak insect species. Oecologia, 2012, 168, 863-876.	0.9	48
83	Qualitative Variation in Proanthocyanidin Composition of Populus Species and Hybrids: Genetics is the Key. Journal of Chemical Ecology, 2011, 37, 57-70.	0.9	47
84	Consequences of Elevated Atmospheric CO2 for Forest Insects. , 1996, , 347-361.		47
85	Lespedeza phenolics andPenstemon alkaloids: Effects on digestion efficiencies and growth of voles. Journal of Chemical Ecology, 1986, 12, 713-728.	0.9	46
86	Diversity, Redundancy, and Multiplicity in Chemical Defense Systems of Aspen. , 1996, , 25-56.		46
87	Decomposition of Betula papyrifera leaf litter under the independent and interactive effects of elevated CO2 and O3. Global Change Biology, 2004, 10, 1666-1677.	4.2	45
88	Host plant alteration of detoxication activity in <i>Papilio glaucus glaucus</i>. Entomologia Experimentalis Et Applicata, 1989, 50, 29-35.	0.7	44
89	Cottonwood Leaf Beetle (Coleoptera: Chrysomelidae) Performance in Relation to Variable Phytochemistry in Juvenile Aspen (<i>Populus tremuloides</i>Michx.). Environmental Entomology, 2004, 33, 1505-1511.	0.7	44
90	Incidence of Venturia shoot blight in aspen (Populus tremuloides Michx.) varies with tree chemistry and genotype. Biochemical Systematics and Ecology, 2009, 37, 139-145.	0.6	44

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91	Effects of protein and juglone on gypsy moths: Growth performance and detoxification enzyme activity. Journal of Chemical Ecology, 1990, 16, 2533-2547.	0.9	43
92	Inducible Plant Chemical Defences: A Cause of Vole Population Cycles?. Journal of Animal Ecology, 1986, 55, 431.	1.3	42
93	Chemical ecology of the luna moth. Journal of Chemical Ecology, 1989, 15, 2019-2029.	0.9	41
94	Co2and O3Effects on Paper Birch (Betulaceae:Betula papyrifera) Phytochemistry and Whitemarked Tussock Moth (Lymantriidae:Orgyia leucostigma) Performance. Environmental Entomology, 2001, 30, 1119-1126.	0.7	39
95	Interactions between Bacteria And Aspen Defense Chemicals at the Phyllosphere â€“ Herbivore Interface. Journal of Chemical Ecology, 2016, 42, 193-201.	0.9	39
96	Preservation of salicaceae leaves for phytochemical analyses: Further assessment. Journal of Chemical Ecology, 1996, 22, 765-771.	0.9	38
97	Dietary Phenolics Affects Performance of the Gypsy Moth (Lepidoptera: Lymantriidae) and Its Parasitoid Cotesia melanoscela (Hymenoptera: Braconidae). Environmental Entomology, 1997, 26, 668-671.	0.7	38
98	Consequences of clonal variation in aspen phytochemistry for late season folivores. Ecoscience, 1998, 5, 508-516.	0.6	38
99	A comparative analysis of phenylpropanoid metabolism, N utilization, and carbon partitioning in fast- and slow-growing Populus hybrid clones. Journal of Experimental Botany, 2009, 60, 3443-3452.	2.4	38
100	Impacts of elevated CO2 and O3 on aspen leaf litter chemistry and earthworm and springtail productivity. Soil Biology and Biochemistry, 2010, 42, 1132-1137.	4.2	38
101	Patterns of Phytochemical Variation in Mimulus guttatus (Yellow Monkeyflower). Journal of Chemical Ecology, 2013, 39, 525-536.	0.9	37
102	CO. Oecologia, 1999, 119, 389.	0.9	37
103	Browse Quality in Quaking Aspen (Populus tremuloides): Effects of Genotype, Nutrients, Defoliation, and Coppicing. Journal of Chemical Ecology, 2007, 33, 1049-1064.	0.9	36
104	Influence of Genotype, Environment, and Gypsy Moth Herbivory on Local and Systemic Chemical Defenses in Trembling Aspen (Populus tremuloides). Journal of Chemical Ecology, 2015, 41, 651-661.	0.9	36
105	Influences of atmospheric CO2 enrichment on the responses of sugar maple and trembling aspen to defoliation. New Phytologist, 1998, 140, 85-94.	3.5	35
106	CO2 and light effects on deciduous trees: growth, foliar chemistry, and insect performance. Oecologia, 1999, 119, 389-399.	0.9	35
107	Effects of Paper Birch Condensed Tannin on Whitemarked Tussock Moth (Lepidoptera: Lymantriidae) Performance. Environmental Entomology, 2002, 31, 10-14.	0.7	35
108	Atmospheric change alters performance of an invasive forest insect. Global Change Biology, 2012, 18, 3543-3557.	4.2	35

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109	Rapid phytochemical analysis of birch (Betula) and poplar (Populus) foliage by near-infrared reflectance spectroscopy. Analytical and Bioanalytical Chemistry, 2013, 405, 1333-1344.	1.9	34
110	Independent and interactive effects of plant genotype and environment on plant traits and insect herbivore performance: A metaâ€analysis with Salicaceae. Functional Ecology, 2019, 33, 422-435.	1.7	34
111	Tri-trophic effects of plant defenses: chickadees consume caterpillars based on host leaf chemistry. Oikos, 2006, 114, 507-517.	1.2	33
112	Atmospheric change, plant secondary metabolites and ecological interactions. , 2012, , 120-153.		33
113	A High-Resolution Genetic Map of Yellow Monkeyflower Identifies Chemical Defense QTLs and Recombination Rate Variation. G3: Genes, Genomes, Genetics, 2014, 4, 813-821.	0.8	33
114	Genotypic variation in plant traits shapes herbivorous insect and ant communities on a foundation tree species. PLoS ONE, 2018, 13, e0200954.	1.1	33
115	Genotype and soil nutrient environment influence aspen litter chemistry and in-stream decomposition. Freshwater Science, 2012, 31, 1244-1253.	0.9	31
116	Secondary Plant Compounds in Seedling and Mature Aspen (Populus tremuloides) in Yellowstone National Park, Wyoming. American Midland Naturalist, 2001, 145, 299-308.	0.2	30
117	Response of quaking aspen genotypes to enriched CO2: foliar chemistry and tussock moth performance. Agricultural and Forest Entomology, 2002, 4, 315-323.	0.7	29
118	Transgenerational phenotypic plasticity under future atmospheric conditions. Ecology Letters, 2004, 7, 941-946.	3.0	29
119	Differential toxicity of juglone (5-hydroxy-1,4-naphthoquinone) and related naphthoquinones to saturniid moths. Journal of Chemical Ecology, 1994, 20, 1631-1641.	0.9	28
120	Altered genotypic and phenotypic frequencies of aphid populations under enriched CO2 and O3 atmospheres. Global Change Biology, 2005, 11, 051013014052002-???.	4.2	28
121	Adaptations of Mammalian Herbivores to Plant Chemical Defenses. , 1988, , 415-445.		27
122	Linking plant genes to insect communities: Identifying the genetic bases of plant traits and community composition. Molecular Ecology, 2019, 28, 4404-4421.	2.0	25
123	Growing up aspen: ontogeny and trade-offs shape growth, defence and reproduction in a foundation species. Annals of Botany, 2021, 127, 505-517.	1.4	25
124	Transgenerational effects of herbivory in a group of longâ€lived tree species: maternal damage reduces offspring allocation to resistance traits, but not growth. Journal of Ecology, 2013, 101, 1062-1073.	1.9	24
125	Effects of foliar phenolics and ascorbic acid on performance of the gypsy moth (Lymantria dispar). Biochemical Systematics and Ecology, 1994, 22, 341-351.	0.6	23
126	Responses of deciduous broadleaf trees to defoliation in a CO2 enriched atmosphere. Tree Physiology, 2002, 22, 435-448.	1.4	23

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127	Behavioral archives link the chemistry and clonal structure of trembling aspen to the food choice of North American porcupine. Oecologia, 2009, 160, 687-695.	0.9	23
128	Soil carbon and nitrogen mineralization following deposition of insect frass and greenfall from forests under elevated CO2 and O3. Plant and Soil, 2010, 336, 75-85.	1.8	23
129	Herbivoreâ€mediated material fluxes in a northern deciduous forest under elevated carbon dioxide and ozone concentrations. New Phytologist, 2014, 204, 397-407.	3.5	23
130	Small mammal activity alters plant community composition and microbial activity in an oldâ€field ecosystem. Ecosphere, 2017, 8, e01777.	1.0	22
131	Effects of Elevated Atmospheric Carbon Dioxide and Tropospheric Ozone on Phytochemical Composition of Trembling Aspen (Populus tremuloides) and Paper Birch (Betula papyrifera). Journal of Chemical Ecology, 2017, 43, 26-38.	0.9	22
132	The Impact of Genomics on Advances in Herbivore Defense and Secondary Metabolism in Populus. , 2010, , 279-305.		22
133	Detoxication of some naturally occuring phenolics by prairie voles: a rapid assay of glucuronidation metabolism. Biochemical Systematics and Ecology, 1983, 11, 405-409.	0.6	21
134	Differential esterase activity in Papilio glaucus subspecies: Absence of cross-resistance between allelochemicals and insecticides. Pesticide Biochemistry and Physiology, 1989, 35, 185-191.	1.6	21
135	Plant genotypic diversity and environmental stress interact to negatively affect arthropod community diversity. Arthropod-Plant Interactions, 2009, 3, 249-258.	0.5	21
136	Interactive effects of condensed tannin and cellulose additions on soil respiration. Canadian Journal of Forest Research, 2007, 37, 2063-2067.	0.8	20
137	Chemical defense over decadal scales: Ontogenetic allocation trajectories and consequences for fitness in a foundation tree species. Functional Ecology, 2019, 33, 2105-2115.	1.7	20
138	Condensed tannin biosynthesis and polymerization synergistically condition carbon use, defense, sink strength and growth in Populus. Tree Physiology, 2014, 34, 1240-1251.	1.4	19
139	Growthâ€"defense trade-offs shape population genetic composition in an iconic forest tree species. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	19
140	Phenylpropanoid glycosides of Mimulus guttatus (yellow monkeyflower). Phytochemistry Letters, 2014, 10, 132-139.	0.6	18
141	Genetic variation in aspen phytochemical patterns structures windows of opportunity for gypsy moth larvae. Oecologia, 2018, 187, 471-482.	0.9	18
142	Climate Change and Temporal and Spatial Mismatches in Insect Communities. , 2009, , 215-231.		17
143	Heterozygosity, gender, and the growth-defense trade-off in quaking aspen. Oecologia, 2016, 181, 381-390.	0.9	17
144	Trait plasticity and tradeâ€offs shape intraâ€specific variation in competitive response in a foundation tree species. New Phytologist, 2021, 230, 710-719.	3.5	17

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145	Title is missing!. Journal of Chemical Ecology, 1999, 25, 1331-1341.	0.9	16
146	Elevated CO2 interacts with herbivory to alter chlorophyll fluorescence and leaf temperature in Betula papyrifera and Populus tremuloides. Oecologia, 2012, 169, 905-913.	0.9	16
147	Detoxication activity in the gypsy moth: Effects of host CO2 and NO 3 ? availability. Journal of Chemical Ecology, 1993, 19, 357-367.	0.9	15
148	Effects of genotype, elevated CO₂ and elevated O₃ on aspen phytochemistry and aspen leaf beetle <i>Chrysomela crotchi</i> performance. Agricultural and Forest Entomology, 2010, 12, 267-276.	0.7	15
149	Purification and Analysis of Salicinoids. Current Analytical Chemistry, 2018, 14, 423-429.	0.6	15
150	Atmospheric change alters frass quality of forest canopy herbivores. Arthropod-Plant Interactions, 2014, 8, 33-47.	0.5	14
151	Modeling nitrogen flux by larval insect herbivores from a temperate hardwood forest. Oecologia, 2007, 153, 833-843.	0.9	13
152	Phytochemical traits underlie genotypic variation in susceptibility of quaking aspen (<i>Populus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	1.9	13
153	Vernal freeze damage and genetic variation alter tree growth, chemistry, and insect interactions. Plant, Cell and Environment, 2017, 40, 2743-2753.	2.8	13
154	Effects of the Quaking Aspen Compounds Catechol, Salicin and Isoniazid on Two Subspecies of Tiger Swallowtails. American Midland Naturalist, 1988, 119, 1.	0.2	12
155	Root Chemistry in Populus tremuloides: Effects of Soil Nutrients, Defoliation, and Genotype. Journal of Chemical Ecology, 2014, 40, 31-38.	0.9	12
156	The Occurrence of Sulfated Salicinoids in Poplar and Their Formation by Sulfotransferase1. Plant Physiology, 2020, 183, 137-151.	2.3	12
157	Patterns in the phytochemistry of three prairie plants. Biochemical Systematics and Ecology, 1986, 14, 597-602.	0.6	11
158	Performance of the invasive weevil <i>Polydrusus sericeus</i> is influenced by atmospheric CO₂ and host species. Agricultural and Forest Entomology, 2010, 12, 285-292.	0.7	11
159	Elevated carbon dioxide and ozone have weak, idiosyncratic effects on herbivorous forest insect abundance, species richness, and community composition. Insect Conservation and Diversity, 2014, 7, 553-562.	1.4	11
160	Growth and chemical responses of trembling aspen to simulated browsing and ungulate saliva. Journal of Plant Ecology, 2016, 9, 474-484.	1.2	11
161	Genotypic Differences and Prior Defoliation Affect Re-Growth and Phytochemistry after Coppicing in Populus tremuloides. Journal of Chemical Ecology, 2012, 38, 306-314.	0.9	10
162	Spatial, genetic and biotic factors shape withinâ€crown leaf trait variation and herbivore performance in a foundation tree species. Functional Ecology, 2021, 35, 54-66.	1.7	10

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163	To compete or defend: linking functional trait variation with life-history tradeoffs in a foundation tree species. Oecologia, 2020, 192, 893-907.	0.9	10
164	Effects of CO 2 and NO 3 - Availability on Deciduous Trees: Phytochemistry and Insect Performance. Ecology, 1997, 78, 215.	1.5	9
165	Forest understory clover populations in enriched CO2 and O3 atmospheres: Interspecific, intraspecific, and indirect effects. Environmental and Experimental Botany, 2007, 59, 340-346.	2.0	9
166	Root Secondary Metabolites in Populus tremuloides: Effects of Simulated Climate Warming, Defoliation, and Genotype. Journal of Chemical Ecology, 2021, 47, 313-321.	0.9	9
167	Impacts of Atmospheric Change on Treeâ€"Arthropod Interactions. Developments in Environmental Science, 2013, 13, 227-248.	0.5	8
168	Supercooling points of diapausing forest tent caterpillar (Lepidoptera: Lasiocampidae) eggs. Canadian Entomologist, 2016, 148, 512-519.	0.4	8
169	Divergent host plant utilization by adults and offspring is related to intraâ€plant variation in chemical defences. Journal of Animal Ecology, 2019, 88, 1789-1798.	1.3	8
170	Analysis of condensed tannins in Populus spp. using reversed phase UPLCâ€PDAâ€(â^')esiâ€MS following thiolytic depolymerisation. Phytochemical Analysis, 2019, 30, 257-267.	1.2	8
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