Richard L Lindroth

List of Publications by Year in Descending Order

194 papers	11,568 citations	54 h-index	102 g-index
198 ext. papers	12,631 ext. citations	4.4 avg, IF	6.31 L-index

#	Paper	IF	Citations
194	Polyploidy and growth-defense tradeoffs in natural populations of western quaking Aspen.. *Journal of Chemical Ecology*, **2022**, 48, 431	2.7	0
193	Intraspecific variation in plant economic traits predicts trembling aspen resistance to a generalist insect herbivore.. *Oecologia*, **2022**, 1	2.9	0
192	Coordinated resource allocation to plant growth-defense tradeoffs. *New Phytologist*, **2021**,	9.8	4
191	Causes and Consequences of Condensed Tannin Variation in Populus **2021**, 69-112		0
190	Heterozygous Trees Rebound the Fastest after Felling by Beavers to Positively Affect Arthropod Community Diversity. *Forests*, **2021**, 12, 694	2.8	1
189	Beavers, Bugs and Chemistry: A Mammalian Herbivore Changes Chemistry Composition and Arthropod Communities in Foundation Tree Species. *Forests*, **2021**, 12, 877	2.8	2
188	Growing up aspen: ontogeny and trade-offs shape growth, defence and reproduction in a foundation species. *Annals of Botany*, **2021**, 127, 505-517	4.1	10
187	Spatial, genetic and biotic factors shape within-crown leaf trait variation and herbivore performance in a foundation tree species. *Functional Ecology*, **2021**, 35, 54-66	5.6	2
186	Salicinoid phenolics reduce adult Anoplophora glabripennis (Cerambicidae: Lamiinae) feeding and egg production. *Arthropod-Plant Interactions*, **2021**, 15, 127-136	2.2	2
185	Trait plasticity and trade-offs shape intra-specific variation in competitive response in a foundation tree species. *New Phytologist*, **2021**, 230, 710-719	9.8	5
184	Root Secondary Metabolites in Populus tremuloides: Effects of Simulated Climate Warming, Defoliation, and Genotype. *Journal of Chemical Ecology*, **2021**, 47, 313-321	2.7	2
183	Plastic responses to hot temperatures homogenize riparian leaf litter, speed decomposition, and reduce detritivores. *Ecology*, **2021**, 102, e03461	4.6	1
182	Growth-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,	11.5	5
181	Phenological responses to prior-season defoliation and soil-nutrient availability vary among early- and late-flushing aspen (Populus tremuloides Michx.) genotypes. *Forest Ecology and Management*, **2020**, 458, 117771	3.9	1
180	The Occurrence of Sulfated Salicinoids in Poplar and Their Formation by Sulfotransferase1. *Plant Physiology*, **2020**, 183, 137-151	6.6	5
179	Response of aspen genotypes to browsing damage is not influenced by soil community diversity. *Plant and Soil*, **2020**, 452, 153-170	4.2	
178	To compete or defend: linking functional trait variation with life-history tradeoffs in a foundation tree species. *Oecologia*, **2020**, 192, 893-907	2.9	6

177	Local adaptation and rapid evolution of aphids in response to genetic interactions with their cottonwood hosts. *Ecology and Evolution*, **2020**, 10, 10532-10542	2.8	1
176	Linking plant genes to insect communities: Identifying the genetic bases of plant traits and community composition. *Molecular Ecology*, **2019**, 28, 4404-4421	5.7	15
175	Chemical defense over decadal scales: Ontogenetic allocation trajectories and consequences for fitness in a foundation tree species. *Functional Ecology*, **2019**, 33, 2105-2115	5.6	16
174	Genetic variation in tree leaf chemistry predicts the abundance and activity of autotrophic soil microorganisms. *Ecosphere*, **2019**, 10, e02795	3.1	3
173	Divergent host plant utilization by adults and offspring is related to intra-plant variation in chemical defences. *Journal of Animal Ecology*, **2019**, 88, 1789-1798	4.7	5
172	Analysis of condensed tannins in Populus spp. using reversed phase UPLC-PDA-(-)esi-MS following thiolytic depolymerisation. *Phytochemical Analysis*, **2019**, 30, 257-267	3.4	6
171	Independent and interactive effects of plant genotype and environment on plant traits and insect herbivore performance: A meta-analysis with Salicaceae. *Functional Ecology*, **2019**, 33, 422-435	5.6	19
170	Genetic down-regulation of gibberellin results in semi-dwarf poplar but few non-target effects on chemical resistance and tolerance to defoliation. *Journal of Plant Ecology*, **2019**, 12, 124-136	1.7	5
169	Large effect quantitative trait loci for salicinoid phenolic glycosides in : Implications for gene discovery. *Ecology and Evolution*, **2018**, 8, 3726-3737	2.8	4
168	Genotypic variation in plant traits shapes herbivorous insect and ant communities on a foundation tree species. *PLoS ONE*, **2018**, 13, e0200954	3.7	20
167	Purification and Analysis of Salicinoids. *Current Analytical Chemistry*, **2018**, 14, 423-429	1.7	12
166	Clonal Saplings of Trembling Aspen Do Not Coordinate Defense Induction. *Journal of Chemical Ecology*, **2018**, 44, 1045-1050	2.7	4
165	Genetic variation in aspen phytochemical patterns structures windows of opportunity for gypsy moth larvae. *Oecologia*, **2018**, 187, 471-482	2.9	11
164	Vernal freeze damage and genetic variation alter tree growth, chemistry, and insect interactions. *Plant, Cell and Environment*, **2017**, 40, 2743-2753	8.4	10
163	Small mammal activity alters plant community composition and microbial activity in an old-field ecosystem. *Ecosphere*, **2017**, 8, e01777	3.1	12
162	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	2.7	18
161	Genetic Modification of Lignin in Hybrid Poplar (Populus alba Populus tremula) Does Not Substantially Alter Plant Defense or Arthropod Communities. *Journal of Insect Science*, **2017**, 17,	2	3
160	Phytochemical traits underlie genotypic variation in susceptibility of quaking aspen (Populus tremuloides) to browsing by a keystone forest ungulate. *Journal of Ecology*, **2016**, 104, 850-863	6	12

159	Host genetics and environment shape fungal pathogen incidence on a foundation forest tree species, Populus tremuloides. *Canadian Journal of Forest Research*, **2016**, 46, 1167-1172	1.9	4
158	Growth and chemical responses of trembling aspen to simulated browsing and ungulate saliva. *Journal of Plant Ecology*, **2016**, 9, 474-484	1.7	8
157	Interactions between Bacteria And Aspen Defense Chemicals at the Phyllosphere - Herbivore Interface. *Journal of Chemical Ecology*, **2016**, 42, 193-201	2.7	19
156	Heterozygosity, gender, and the growth-defense trade-off in quaking aspen. *Oecologia*, **2016**, 181, 381-90	2.9	15
155	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	3.9	35
154	Supercooling points of diapausing forest tent caterpillar (Lepidoptera: Lasiocampidae) eggs. *Canadian Entomologist*, **2016**, 148, 512-519	0.7	6
153	Spectroscopic determination of ecologically relevant plant secondary metabolites. *Methods in Ecology and Evolution*, **2016**, 7, 1402-1412	7.7	64
152	Experimental Approaches for Assessing Invertebrate Responses to Global Change Factors **2016**, 30-45		6
151	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, 222-30	8.4	48
150	Down-regulation of gibberellic acid in poplar has negligible effects on host-plant suitability and insect pest response. *Arthropod-Plant Interactions*, **2015**, 9, 85-95	2.2	2
149	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, 651-61	2.7	28
148	Aspen defense chemicals influence midgut bacterial community composition of gypsy moth. *Journal of Chemical Ecology*, **2015**, 41, 75-84	2.7	39
147	Condensed tannins increase nitrogen recovery by trees following insect defoliation. *New Phytologist*, **2015**, 208, 410-20	9.8	43
146	Experimental climate warming alters aspen and birch phytochemistry and performance traits for an outbreak insect herbivore. *Global Change Biology*, **2015**, 21, 2698-2710	11.4	43
145	Root chemistry in Populus tremuloides: effects of soil nutrients, defoliation, and genotype. *Journal of Chemical Ecology*, **2014**, 40, 31-8	2.7	10
144	Atmospheric change alters frass quality of forest canopy herbivores. *Arthropod-Plant Interactions*, **2014**, 8, 33-47	2.2	12
143	Imaging spectroscopy links aspen genotype with below-ground processes at landscape scales. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369, 20130194	5.8	52
142	Simulated climate warming alters phenological synchrony between an outbreak insect herbivore and host trees. *Oecologia*, **2014**, 175, 1041-9	2.9	67

141	Phenylpropanoid glycosides of Mimulus guttatus (yellow monkeyflower). *Phytochemistry Letters*, **2014**, 10, 132-139	1.9	14
140	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	3.8	10
139	Herbivore-mediated material fluxes in a northern deciduous forest under elevated carbon dioxide and ozone concentrations. *New Phytologist*, **2014**, 204, 397-407	9.8	17
138	A high-resolution genetic map of yellow monkeyflower identifies chemical defense QTLs and recombination rate variation. *G3: Genes, Genomes, Genetics*, **2014**, 4, 813-21	3.2	26
137	Condensed tannin biosynthesis and polymerization synergistically condition carbon use, defense, sink strength and growth in Populus. *Tree Physiology*, **2014**, 34, 1240-51	4.2	13
136	Patterns of phytochemical variation in Mimulus guttatus (yellow monkeyflower). *Journal of Chemical Ecology*, **2013**, 39, 525-36	2.7	30
135	Rapid phytochemical analysis of birch (Betula) and poplar (Populus) foliage by near-infrared reflectance spectroscopy. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 1333-44	4.4	31
134	Impacts of Atmospheric Change on Tree–Arthropod Interactions. *Developments in Environmental Science*, **2013**, 13, 227-248		6
133	Transgenerational effects of herbivory in a group of long-lived tree species: maternal damage reduces offspring allocation to resistance traits, but not growth. *Journal of Ecology*, **2013**, 101, 1062-1073	6	21
132	Adaptations of quaking aspen (Populus tremuloides Michx.) for defense against herbivores. *Forest Ecology and Management*, **2013**, 299, 14-21	3.9	105
131	Influence of global atmospheric change on the feeding behavior and growth performance of a mammalian herbivore, Microtus ochrogaster. *PLoS ONE*, **2013**, 8, e72717	3.7	2
130	Atmospheric change alters foliar quality of host trees and performance of two outbreak insect species. *Oecologia*, **2012**, 168, 863-76	2.9	42
129	Arthropod community similarity in clonal stands of aspen: A test of the genetic similarity rule. *Ecoscience*, **2012**, 19, 48-58	1.1	4
128	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	2.9	65
127	Genotype and soil nutrient environment influence aspen litter chemistry and in-stream decomposition. *Freshwater Science*, **2012**, 31, 1244-1253	2	29
126	Consequences of climate warming and altered precipitation patterns for plant-insect and multitrophic interactions. *Plant Physiology*, **2012**, 160, 1719-27	6.6	206
125	Atmospheric change alters performance of an invasive forest insect. *Global Change Biology*, **2012**, 18, 3543-3557	11.4	30
124	Genotypic differences and prior defoliation affect re-growth and phytochemistry after coppicing in Populus tremuloides. *Journal of Chemical Ecology*, **2012**, 38, 306-14	2.7	9

123	Elevated CO2 interacts with herbivory to alter chlorophyll fluorescence and leaf temperature in Betula papyrifera and Populus tremuloides. *Oecologia*, **2012**, 169, 905-13	2.9	16
122	Soil microbial communities adapt to genetic variation in leaf litter inputs. *Oikos*, **2011**, 120, 1696-1704	4	51
121	Qualitative variation in proanthocyanidin composition of Populus species and hybrids: genetics is the key. *Journal of Chemical Ecology*, **2011**, 37, 57-70	2.7	40
120	Forest gene diversity is correlated with the composition and function of soil microbial communities. *Population Ecology*, **2011**, 53, 35-46	2.1	45
119	Performance of the invasive weevil Polydrusus sericeus is influenced by atmospheric CO2 and host species. *Agricultural and Forest Entomology*, **2010**, 12, 285	1.9	10
118	Effects of genotype, elevated CO2 and elevated O3 on aspen phytochemistry and aspen leaf beetle Chrysomela crotchi performance. *Agricultural and Forest Entomology*, **2010**, 12, 267	1.9	13
117	Individual growth rates do not predict aphid population densities under altered atmospheric conditions. *Agricultural and Forest Entomology*, **2010**, 12, no-no	1.9	2
116	Increased nitrogen availability influences predator□prey interactions by altering host-plant quality. *Chemoecology*, **2010**, 20, 277-284	2	48
115	Impacts of elevated atmospheric CO2 and O3 on forests: phytochemistry, trophic interactions, and ecosystem dynamics. *Journal of Chemical Ecology*, **2010**, 36, 2-21	2.7	206
114	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	4.2	21
113	Impacts of elevated CO2 and O3 on aspen leaf litter chemistry and earthworm and springtail productivity. *Soil Biology and Biochemistry*, **2010**, 42, 1132-1137	7.5	32
112	The Impact of Genomics on Advances in Herbivore Defense and Secondary Metabolism in Populus **2010**, 279-305		21
111	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, 3443-52	7	34
110	Climate Change and Temporal and Spatial Mismatches in Insect Communities **2009**, 215-231		13
109	Incidence of Venturia shoot blight in aspen (Populus tremuloides Michx.) varies with tree chemistry and genotype. *Biochemical Systematics and Ecology*, **2009**, 37, 139-145	1.4	41
108	Genetic mosaics of ecosystem functioning across aspen-dominated landscapes. *Oecologia*, **2009**, 160, 119-27	2.9	55
107	Behavioral archives link the chemistry and clonal structure of trembling aspen to the food choice of North American porcupine. *Oecologia*, **2009**, 160, 687-95	2.9	21
106	Removal of invasive shrubs reduces exotic earthworm populations. *Biological Invasions*, **2009**, 11, 663-671	1.7	57

105	Plant genotypic diversity and environmental stress interact to negatively affect arthropod community diversity. *Arthropod-Plant Interactions*, **2009**, 3, 249-258	2.2	21
104	Rising concentrations of atmospheric CO2 have increased growth in natural stands of quaking aspen (Populus tremuloides). *Global Change Biology*, **2009**, 16, 2186-2197	11.4	71
103	Elevated atmospheric carbon dioxide and ozone alter forest insect abundance and community composition. *Insect Conservation and Diversity*, **2008**, 1, 233-241	3.8	49
102	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	1.9	43
101	Aspen Decline, Aspen Chemistry, and Elk Herbivory: Are They Linked?. *Rangelands*, **2008**, 30, 17-21	1.1	43
100	Independent, Interactive, and Species-Specific Responses of Leaf Litter Decomposition to Elevated CO2 and O3 in a Northern Hardwood Forest. *Ecosystems*, **2008**, 11, 505-519	3.9	50
99	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	3.9	147
98	Forest understory clover populations in enriched CO2 and O3 atmospheres: Interspecific, intraspecific, and indirect effects. *Environmental and Experimental Botany*, **2007**, 59, 340-346	5.9	9
97	Canopy herbivory can mediate the influence of plant genotype on soil processes through frass deposition. *Soil Biology and Biochemistry*, **2007**, 39, 1192-1201	7.5	53
96	Resistance and tolerance in Populus tremuloides: genetic variation, costs, and environmental dependency. *Evolutionary Ecology*, **2007**, 21, 829-847	1.8	97
95	Browse quality in quaking Aspen (Populus tremuloides): effects of genotype, nutrients, defoliation, and coppicing. *Journal of Chemical Ecology*, **2007**, 33, 1049-64	2.7	35
94	Rapid shifts in the chemical composition of aspen forests: an introduced herbivore as an agent of natural selection. *Biological Invasions*, **2007**, 9, 715-722	2.7	48
93	Modeling nitrogen flux by larval insect herbivores from a temperate hardwood forest. *Oecologia*, **2007**, 153, 833-43	2.9	12
92	Genetics, environment, and their interaction determine efficacy of chemical defense in trembling aspen. *Ecology*, **2007**, 88, 729-39	4.6	99
91	Interactive effects of condensed tannin and cellulose additions on soil respiration. *Canadian Journal of Forest Research*, **2007**, 37, 2063-2067	1.9	17
90	Extrafloral nectaries in aspen (Populus tremuloides): heritable genetic variation and herbivore-induced expression. *Annals of Botany*, **2007**, 100, 1337-46	4.1	45
89	Tri-trophic effects of plant defenses: chickadees consume caterpillars based on host leaf chemistry. *Oikos*, **2006**, 114, 507-517	4	27
88	Competition- and resource-mediated tradeoffs between growth and defensive chemistry in trembling aspen (Populus tremuloides). *New Phytologist*, **2006**, 169, 561-70	9.8	117

87	Genome-wide analysis of the structural genes regulating defense phenylpropanoid metabolism in Populus. *New Phytologist*, **2006**, 172, 47-62	9.8	222
86	A framework for community and ecosystem genetics: from genes to ecosystems. *Nature Reviews Genetics*, **2006**, 7, 510-23	30.1	790
85	Age-related shifts in leaf chemistry of clonal aspen (Populus tremuloides). *Journal of Chemical Ecology*, **2006**, 32, 1415-29	2.7	135
84	Developmental trajectories in cottonwood phytochemistry. *Journal of Chemical Ecology*, **2006**, 32, 2269-85	2.7	63
83	Genetic Identity of Populus tremuloides Litter Influences Decomposition and Nutrient Release in a Mixed Forest Stand. *Ecosystems*, **2006**, 9, 528-537	3.9	143
82	Genotype and environment determine allocation to and costs of resistance in quaking aspen. *Oecologia*, **2006**, 148, 293-303	2.9	123
81	Importance of species interactions to community heritability: a genetic basis to trophic-level interactions. *Ecology Letters*, **2006**, 9, 78-85	10	118
80	Herbivory in a World of Elevated CO2 **2005**, 468-486		4
79	CO2 and O3 effects on host plant preferences of the forest tent caterpillar (Malacosoma disstria). *Global Change Biology*, **2005**, 11, 588-599	11.4	56
78	Altered genotypic and phenotypic frequencies of aphid populations under enriched CO2 and O3 atmospheres. *Global Change Biology*, **2005**, 11, 051013014052002-???	11.4	3
77	Induced resistance in the indeterminate growth of aspen (Populus tremuloides). *Oecologia*, **2005**, 145, 298-306	2.9	75
76	Host plant genetics affect hidden ecological players: links among Populus, condensed tannins, and fungal endophyte infection. *Canadian Journal of Botany*, **2005**, 83, 356-361		93
75	Cottonwood Leaf Beetle (Coleoptera: Chrysomelidae) Performance in Relation to Variable Phytochemistry in Juvenile Aspen (Populus tremuloidesMichx.). *Environmental Entomology*, **2004**, 33, 1505-1511	2.1	38
74	Genetically based trait in a dominant tree affects ecosystem processes. *Ecology Letters*, **2004**, 7, 127-134	10	291
73	Transgenerational phenotypic plasticity under future atmospheric conditions. *Ecology Letters*, **2004** , 7, 941-946	10	26
72	Aphid individual performance may not predict population responses to elevated CO2 or O3. *Global Change Biology*, **2004**, 10, 1414-1423	11.4	58
71	Divergent pheromone-mediated insect behaviour under global atmospheric change. *Global Change Biology*, **2004**, 10, 1820-1824	11.4	41
70	Decomposition of Betula papyrifera leaf litter under the independent and interactive effects of elevated CO2 and O3. *Global Change Biology*, **2004**, 10, 1666-1677	11.4	39

69	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	2.9	81
68	BEAVERS AS MOLECULAR GENETICISTS: A GENETIC BASIS TO THE FORAGING OF AN ECOSYSTEM ENGINEER. *Ecology*, **2004**, 85, 603-608	4.6	99
67	Effects of elevated carbon dioxide and ozone on the phytochemistry of aspen and performance of an herbivore. *Oecologia*, **2003**, 134, 95-103	2.9	81
66	Foliar quality influences tree-herbivore-parasitoid interactions: effects of elevated CO2, O3, and plant genotype. *Oecologia*, **2003**, 137, 233-44	2.9	129
65	Responses of trembling aspen (Populus tremuloides) phytochemistry and aspen blotch leafminer (Phyllonorycter tremuloidiella) performance to elevated levels of atmospheric CO2 and O3. *Agricultural and Forest Entomology*, **2003**, 5, 17-26	1.9	49
64	COMMUNITY AND ECOSYSTEM GENETICS: A CONSEQUENCE OF THE EXTENDED PHENOTYPE. *Ecology*, **2003**, 84, 559-573	4.6	506
63	Altered growth and fine root chemistry of Betula papyrifera and Acer saccharum under elevated CO2. *Canadian Journal of Forest Research*, **2003**, 33, 842-846	1.9	7
62	Herbivory in global climate change research: direct effects of rising temperature on insect herbivores. *Global Change Biology*, **2002**, 8, 1-16	11.4	1546
61	Response of quaking aspen genotypes to enriched CO2: foliar chemistry and tussock moth performance. *Agricultural and Forest Entomology*, **2002**, 4, 315-323	1.9	26
60	Altered performance of forest pests under atmospheres enriched by CO2 and O3. *Nature*, **2002**, 420, 403-7	50.4	248
59	Effects of Paper Birch Condensed Tannin on Whitemarked Tussock Moth (Lepidoptera: Lymantriidae) Performance. *Environmental Entomology*, **2002**, 31, 10-14	2.1	30
58	Responses of deciduous broadleaf trees to defoliation in a CO2 enriched atmosphere. *Tree Physiology*, **2002**, 22, 435-48	4.2	19
57	Genotypic variation in response of quaking aspen (Populus tremuloides) to atmospheric CO enrichment. *Oecologia*, **2001**, 126, 371-379	2.9	66
56	Effects of genotype, nutrient availability, and defoliation on aspen phytochemistry and insect performance. *Journal of Chemical Ecology*, **2001**, 27, 1289-313	2.7	151
55	Co2and O3Effects on Paper Birch (Betulaceae:Betula papyrifera) Phytochemistry and Whitemarked Tussock Moth (Lymantriidae:Orgyia leucostigma) Performance. *Environmental Entomology*, **2001**, 30, 1119-1126	2.1	37
54	Secondary Plant Compounds in Seedling and Mature Aspen (Populus tremuloides) in Yellowstone National Park, Wyoming. *American Midland Naturalist*, **2001**, 145, 299-308	0.7	24
53	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	9.3	100
52	Effects of CO2 and light on tree phytochemistry and insect performance. *Oikos*, **2000**, 88, 259-272	4	106

51	Within- and between-year variation in early season phytochemistry of quaking aspen (Populus tremuloides Michx.) clones. *Biochemical Systematics and Ecology*, **2000**, 28, 197-208	1.4	49
50	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	2.1	55
49	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	2.1	86
48	Effects of Light and Nutrient Availability on Aspen: Growth, Phytochemistry, and Insect Performance. *Journal of Chemical Ecology*, **1999**, 25, 1687-1714	2.7	106
47	Phytochemical Variation in Quaking Aspen: Effects on Gypsy Moth Susceptibility to Nuclear Polyhedrosis Virus. *Journal of Chemical Ecology*, **1999**, 25, 1331-1341	2.7	15
46	CO and light effects on deciduous trees: growth, foliar chemistry, and insect performance. *Oecologia*, **1999**, 119, 389-399	2.9	20
45	CO. *Oecologia*, **1999**, 119, 389	2.9	32
44	Consequences of Enriched Atmospheric CO2 and Defoliation for Foliar Chemistry and Gypsy Moth Performance. *Journal of Chemical Ecology*, **1998**, 24, 1677-1695	2.7	51
43	Influences of atmospheric CO2 enrichment on the responses of sugar maple and trembling aspen to defoliation. *New Phytologist*, **1998**, 140, 85-94	9.8	32
42	Enriched atmospheric CO2 and defoliation: effects on tree chemistry and insect performance. *Global Change Biology*, **1998**, 4, 419-430	11.4	75
41	Consequences of clonal variation in aspen phytochemistry for late season folivores. *Ecoscience*, **1998**, 5, 508-516	1.1	36
40	Effects of CO 2 and NO 3 - Availability on Deciduous Trees: Phytochemistry and Insect Performance. *Ecology*, **1997**, 78, 215	4.6	9
39	Variation in temperature and dietary nitrogen affect performance of the gypsy moth (Lymantria dispar L.). *Physiological Entomology*, **1997**, 22, 55-64	1.9	54
38	Dietary Phenolics Affects Performance of the Gypsy Moth (Lepidoptera: Lymantriidae) and Its Parasitoid Cotesia melanoscela (Hymenoptera: Braconidae). *Environmental Entomology*, **1997**, 26, 668-671	2.1	34
37	EFFECTS OF CO2 AND NO3□AVAILABILITY ON DECIDUOUS TREES: PHYTOCHEMISTRY AND INSECT PERFORMANCE. *Ecology*, **1997**, 78, 215-230	4.6	99
36	Clonal variation in foliar chemistry of aspen: effects on gypsy moths and forest tent caterpillars. *Oecologia*, **1997**, 111, 99-108	2.9	169
35	Clonal variation in foliar chemistry of quaking aspen (Populus tremuloides Michx.). *Biochemical Systematics and Ecology*, **1996**, 24, 357-364	1.4	83
34	Preservation of salicaceae leaves for phytochemical analyses: Further assessment. *Journal of Chemical Ecology*, **1996**, 22, 765-71	2.7	36

33	Diversity, Redundancy, and Multiplicity in Chemical Defense Systems of Aspen **1996**, 25-56		39
32	Consequences of Elevated Atmospheric CO2 for Forest Insects **1996**, 347-361		34
31	CO2-Mediated Changes in Tree Chemistry and Tree-Lepidoptera Interactions **1996**, 105-120		49
30	Intraspecific variation in aspen phytochemistry: effects on performance of gypsy moths and forest tent caterpillars. *Oecologia*, **1995**, 103, 79-88	2.9	160
29	Elevated atmospheric CO2: effects on phytochemistry, insect performance and insect-parasitoid interactions. *Global Change Biology*, **1995**, 1, 173-182	11.4	115
28	Differential toxicity of juglone (5-hydroxy-1,4-naphthoquinone) and related naphthoquinones to saturniid moths. *Journal of Chemical Ecology*, **1994**, 20, 1631-41	2.7	24
27	Effects of CO-mediated changes in paper birch and white pine chemistry on gypsy moth performance. *Oecologia*, **1994**, 98, 133-138	2.9	87
26	Effects of foliar phenolics and ascorbic acid on performance of the gypsy moth (Lymantria dispar). *Biochemical Systematics and Ecology*, **1994**, 22, 341-351	1.4	22
25	Responses of Diciduous Trees to Elevated Atmospheric CO2: Productivity, Phytochemistry, and Insect Performance. *Ecology*, **1993**, 74, 763-777	4.6	296
24	Detoxication activity in the gypsy moth: Effects of host CO2 and NO 3 (-) availability. *Journal of Chemical Ecology*, **1993**, 19, 357-67	2.7	14
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