Matthew P Ayres

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

135 papers	7,743 citations	41 h-index	87 g-index
136 ext. papers	8,610 ext. citations	4 avg, IF	5.83 L-index

#	Paper	IF	Citations
135	Life-history strategies and virulence in the pinewood nematode. *Physiological and Molecular Plant Pathology*, **2022**, 117, 101756	2.6	
134	Analytical approaches for evaluating passive acoustic monitoring data: A case study of avian vocalizations.. *Ecology and Evolution*, **2022**, 12, e8797	2.8	1
133	Insect infestations and the persistence and functioning of oak-pine mixedwood forests in the mid-Atlantic region, USA.. *PLoS ONE*, **2022**, 17, e0265955	3.7	
132	Obtaining and Maintaining Cultures of Pinewood Nematodes Bursaphelenchus xylophilus from Wild Dauers. *Methods in Molecular Biology*, **2022**, 3-11	1.4	
131	Impact of Stand and Landscape Management on Forest Pest Damage. *Annual Review of Entomology* , **2021**,	21.8	2
130	Limited evidence that larger acorns buffer Quercus rubra seedlings from density-dependent biotic stressors. *American Journal of Botany*, **2021**, 108, 1861-1872	2.7	0
129	Modeling the Sensitivity of Blacklegged Ticks (Ixodes scapularis) to Temperature and Land Cover in the Northeastern United States. *Journal of Medical Entomology*, **2021**, 58, 416-427	2.2	3
128	Increasing shrub damage by invertebrate herbivores in the warming and drying tundra of West Greenland. *Oecologia*, **2021**, 195, 995-1005	2.9	2
127	Extreme climatic events affect populations of Asian chestnut gall wasps, Dryocosmus kuriphilus, but do not stop the spread. *Agricultural and Forest Entomology*, **2021**, 23, 473	1.9	0
126	Interactions between pinewood nematodes and the fungal community of pine trees. *Fungal Ecology*, **2021**, 51, 101046	4.1	1
125	Aggressive tree killer or natural thinning agent? Assessing the impacts of a globally important forest insect. *Forest Ecology and Management*, **2021**, 483, 118728	3.9	3
124	Fine roots and mycorrhizal fungi accelerate leaf litter decomposition in a northern hardwood forest regardless of dominant tree mycorrhizal associations. *New Phytologist*, **2021**, 230, 316-326	9.8	10
123	Quantifying the nature and strength of intraspecific density dependence in Arctic mosquitoes. *Oecologia*, **2021**, 196, 1061-1072	2.9	0
122	Seedling survival declines with increasing conspecific density in a common temperate tree. *Ecosphere*, **2020**, 11, e03292	3.1	2
121	Higher Soil Respiration Rate Beneath Arbuscular Mycorrhizal Trees in a Northern Hardwood Forest is Driven by Associated Soil Properties. *Ecosystems*, **2020**, 23, 1243-1253	3.9	4
120	Consumer-resource dynamics in Arctic ponds. *Ecology*, **2020**, 101, e03135	4.6	6
119	Sublethal infection of different pine species by the pinewood nematode. *Plant Pathology*, **2020**, 69, 1565-1573	2.1	4

118	The Fire and Tree Mortality Database, for empirical modeling of individual tree mortality after fire. *Scientific Data*, **2020**, 7, 194	8.2	5
117	Comparison of methods to obtain and maintain cultures of the pinewood nematode, Bursaphelenchus xylophilus. *Journal of Forest Research*, **2020**, 25, 101-107	1.4	3
116	Tree basal area and conifer abundance predict soil carbon stocks and concentrations in an actively managed forest of northern New Hampshire, USA. *Forest Ecology and Management*, **2019**, 451, 117534	3.9	7
115	Pine defenses against the pitch canker disease are modulated by a native insect newly associated with the invasive fungus. *Forest Ecology and Management*, **2019**, 437, 253-262	3.9	7
114	Northern forest winters have lost cold, snowy conditions that are important for ecosystems and human communities. *Ecological Applications*, **2019**, 29, e01974	4.9	32
113	Effect of Rising Temperature on Lyme Disease: Population Dynamics and Transmission and Prevalence. *Canadian Journal of Infectious Diseases and Medical Microbiology*, **2019**, 2019, 9817930	2.6	5
112	Evolutionary history predicts high-impact invasions by herbivorous insects. *Ecology and Evolution*, **2019**, 9, 12216-12230	2.8	15
111	The global diversity of Deladenus siricidicola in native and non-native populations. *Biological Control*, **2019**, 132, 57-65	3.8	6
110	Attack rates of Sirex noctilio and patterns of pine tree defenses and mortality in northern Patagonia. *Bulletin of Entomological Research*, **2019**, 109, 141-149	1.7	6
109	Streams in an uninhabited watershed have predictably different thermal sensitivities to variable summer air temperatures. *Freshwater Biology*, **2018**, 63, 676-686	3.1	4
108	Old pests in new places: Effects of stand structure and forest type on susceptibility to a bark beetle on the edge of its native range. *Forest Ecology and Management*, **2018**, 419-420, 206-219	3.9	20
107	Roe deer prefer mixed-sex willow stands over monosexual stands but do not discriminate between male and female plants. *Environmental and Experimental Botany*, **2018**, 146, 62-67	5.9	5
106	Forest pests and their management in the Anthropocene. *Canadian Journal of Forest Research*, **2018**, 48, 292-301	1.9	22
105	Latitudinal patterns in temperature-dependent growth rates of a forest pathogen. *Journal of Thermal Biology*, **2018**, 72, 39-43	2.9	10
104	Spatial heterogeneity in the abundance and fecundity of Arctic mosquitoes. *Ecosphere*, **2018**, 9, e02345	3.1	10
103	Temperature affects phenological synchrony in a tree-killing bark beetle. *Oecologia*, **2018**, 188, 117-127	2.9	8
102	Spatio-temporal dynamics of a tree-killing beetle and its predator. *Ecography*, **2017**, 40, 221-234	6.5	9
101	Monochamus galloprovincialis and Bursaphelenchus xylophilus life history in an area severely affected by pine wilt disease: Implications for forest management. *Forest Ecology and Management*, **2017**, 389, 105-115	3.9	16

100	Long-term species loss and homogenization of moth communities in Central Europe. *Journal of Animal Ecology*, **2017**, 86, 730-738	4.7	25
99	Pinewood nematode population growth in relation to pine phloem chemical composition. *Plant Pathology*, **2017**, 66, 856-864	2.8	10
98	Nonnative forest insects and pathogens in the United States: Impacts and policy options **2016**, 26, 1437-1455		212
97	Breeding timed to maximize reproductive success for a migratory songbird: the importance of phenological asynchrony. *Oikos*, **2016**, 125, 656-666	4	33
96	Population biology of the European woodwasp, Sirex noctilio, in Galicia, Spain. *Bulletin of Entomological Research*, **2016**, 106, 569-80	1.7	15
95	Observed and anticipated impacts of drought on forest insects and diseases in the United States. *Forest Ecology and Management*, **2016**, 380, 321-334	3.9	227
94	Effects of defoliation and site quality on growth and defenses of Pinus pinaster and P. radiata. *Forest Ecology and Management*, **2016**, 382, 39-50	3.9	8
93	Population Dynamics of Bark Beetles **2015**, 157-176		6
92	Geographically variable response of Dendroctonus ponderosae to winter warming in the western United States. *Landscape Ecology*, **2015**, 30, 1075-1093	4.3	35
91	In a warmer Arctic, mosquitoes avoid increased mortality from predators by growing faster. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282,	4.4	76
90	Signal diversification in Oecanthus tree crickets is shaped by energetic, morphometric, and acoustic trade-offs. *Evolution; International Journal of Organic Evolution*, **2015**, 69, 1518-1527	3.8	10
89	Geographical variation in seasonality and life history of pine sawyer beetles Monochamus spp: its relationship with phoresy by the pinewood nematode Bursaphelenchus xylophilus. *Agricultural and Forest Entomology*, **2014**, 16, 196-206	1.9	17
88	Predation risk shapes thermal physiology of a predaceous damselfly. *Oecologia*, **2014**, 176, 653-60	2.9	41
87	Host use patterns by the European woodwasp, Sirex noctilio, in its native and invaded range. *PLoS ONE*, **2014**, 9, e90321	3.7	24
86	Is climate warming more consequential towards poles? The phenology of Lepidoptera in Finland. *Global Change Biology*, **2014**, 20, 16-27	11.4	17
85	Disturbance Regimes and Stressors. *Advances in Global Change Research*, **2014**, 55-92	1.2	12
84	Alternate attractors in the population dynamics of a tree-killing bark beetle. *Population Ecology*, **2013**, 55, 95-106	2.1	27
83	Foliar terpene chemistry of Pinus pinaster and P. radiata responds differently to Methyl Jasmonate and feeding by larvae of the pine processionary moth. *Forest Ecology and Management*, **2013**, 310, 935-943	3.9	6

82	Inferring controls on the epidemiology of beech bark disease from spatial patterning of disease organisms. *Agricultural and Forest Entomology*, **2013**, 15, 146-156	1.9	10
81	Consequences of climate change for biotic disturbances in North American forests. *Ecological Monographs*, **2013**, 83, 441-470	9	275
80	Tropical phenology: bi-annual rhythms and interannual variation in an Afrotropical butterfly assemblage. *Ecosphere*, **2013**, 4, art36	3.1	46
79	Interactive effects of defoliation and climate change on compensatory growth of silver birch seedlings. *Silva Fennica*, **2013**, 47,	1.9	6
78	Disease ontogeny overshadows effects of climate and species interactions on population dynamics in a nonnative forest disease complex. *Ecography*, **2012**, 35, 412-421	6.5	12
77	Climate affects severity and altitudinal distribution of outbreaks in an eruptive bark beetle. *Climatic Change*, **2012**, 115, 327-341	4.5	100
76	Influence of temperature on the northern distribution limits of Scirpophaga incertulas Walker (Lepidoptera: Pyralidae) in China. *Journal of Thermal Biology*, **2012**, 37, 130-137	2.9	19
75	Assessing the Impact of Climate Change on Outbreak Potential **2012**, 429-450		31
74	Factors influencing bark beetle outbreaks after forest fires on the Iberian Peninsula. *Environmental Entomology*, **2011**, 40, 1007-18	2.1	25
73	Impact of climatic variation on populations of pine processionary moth Thaumetopoea pityocampa in a core area of its distribution. *Agricultural and Forest Entomology*, **2011**, 13, 273-281	1.9	21
72	Subcontinental impacts of an invasive tree disease on forest structure and dynamics. *Journal of Ecology*, **2011**, 99, no-no	6	15
71	Concordant population dynamics of Lepidoptera herbivores in a forest ecosystem. *Ecography*, **2011**, 34, 772-779	6.5	14
70	Environmental controls on the phenology of moths: predicting plasticity and constraint under climate change. *Oecologia*, **2011**, 165, 237-48	2.9	38
69	Temperature alters the relative abundance and population growth rates of species within the Dendroctonus frontalis (Coleoptera: Curculionidae) community. *Environmental Entomology*, **2011**, 40, 824-34	2.1	13
68	Disruptive selection maintains variable pheromone blends in the bark beetle Ips pini. *Environmental Entomology*, **2011**, 40, 1530-40	2.1	6
67	Phloem and xylem nitrogen variability in Quercus rubra attacked by Enaphalodes rufulus. *Canadian Entomologist*, **2011**, 143, 380-383	0.7	1
66	Climate Change Impacts: Insects **2010**,		26
65	Speaking out: weighing advocacy and objectivity as a junior scientist. *Frontiers in Ecology and the Environment*, **2010**, 8, 50-51	5.5	1

64	Interannual dynamics of aerial and arboreal green spruce aphid populations. *Population Ecology*, **2010**, 52, 317-327	2.1	19
63	The distribution and abundance of animal populations in a climate of uncertainty. *Oikos*, **2009**, 118, 11214 1126		81
62	Responses of insect pests, pathogens, and invasive plant species to climate change in the forests of northeastern North America: What can we predict?This article is one of a selection of papers from NE Forests 2100: A Synthesis of Climate Change Impacts on Forests of the Northeastern US and Eastern Canada.. *Canadian Journal of Forest Research*, **2009**, 39, 231-248	1.9	318
61	Isotopic studies of leaf water. Part 2: Between-age isotopic variations in pine needles. *Geochimica Et Cosmochimica Acta*, **2008**, 72, 5189-5200	5.5	4
60	Role of plant enemies in the forestry of indigenous vs. nonindigenous pines **2008**, 18, 1171-81		20
59	High individual variation in pheromone production by tree-killing bark beetles (Coleoptera: Curculionidae: Scolytinae). *Die Naturwissenschaften*, **2008**, 95, 33-44	2	24
58	Temperature extremes, density dependence, and southern pine beetle (Coleoptera: Curculionidae) population dynamics in east Texas. *Environmental Entomology*, **2008**, 37, 650-9	2.1	24
57	Impact of minimum winter temperatures on the population dynamics of Dendroctonus frontalis **2007**, 17, 882-99		106
56	Synchrony's double edge: transient dynamics and the Allee effect in stage structured populations. *Ecology Letters*, **2007**, 10, 564-73	10	30
55	Temperature-dependent effects on mutualistic, antagonistic, and commensalistic interactions among insects, fungi and mites. *Community Ecology*, **2007**, 8, 47-56	1.2	59
54	Climatic effects on caterpillar fluctuations in northern hardwood forests. *Canadian Journal of Forest Research*, **2007**, 37, 481-491	1.9	26
53	Differential impacts of the southern pine beetle, Dendroctonus frontalis, on Pinus palustris and Pinus taeda. *Canadian Journal of Forest Research*, **2007**, 37, 1427-1437	1.9	9
52	Why does longleaf pine have low susceptibility to southern pine beetle?. *Canadian Journal of Forest Research*, **2007**, 37, 1966-1977	1.9	12
51	Seasonal Dynamics of Mites and Fungi and Their Interaction with Southern Pine Beetle. *Environmental Entomology*, **2006**, 35, 22-30	2.1	43
50	Effects of fire and mechanical wounding on Pinus resinosa resin defenses, beetle attacks, and pathogens. *Forest Ecology and Management*, **2006**, 225, 349-358	3.9	52
49	Antagonisms, mutualisms and commensalisms affect outbreak dynamics of the southern pine beetle. *Oecologia*, **2006**, 147, 679-91	2.9	128
48	Fitness consequences of pheromone production and host selection strategies in a tree-killing bark beetle (Coleoptera: Curculionidae: Scolytinae). *Oecologia*, **2006**, 148, 720-8	2.9	39
47	Effects of tree phytochemistry on the interactions among endophloedic fungi associated with the southern pine beetle. *Journal of Chemical Ecology*, **2005**, 31, 539-60	2.7	65

46	Effects of available water on growth and competition of southern pine beetle associated fungi. *Mycological Research*, **2004**, 108, 183-8		25
45	High-resolution analysis of stem increment and sap flow for loblolly pine trees attacked by southern pine beetle. *Canadian Journal of Forest Research*, **2004**, 34, 2387-2393	1.9	28
44	Relative Suitability of Virginia Pine and Loblolly Pine as Host Species forDendroctonus frontalis(Coleoptera: Scolytidae). *Environmental Entomology*, **2003**, 32, 668-679	2.1	11
43	Strong indirect interactions of Tarsonemus mites (Acarina: Tarsonemidae) and Dendroctonus frontalis (Coleoptera: Scolytidae). *Oikos*, **2003**, 102, 243-252	4	75
42	Linking breeding and wintering ranges of a migratory songbird using stable isotopes. *Science*, **2002**, 295, 1062-5	33.3	240
41	Plasticity and Constraint in Growth and Protein Mineralization of Ectomycorrhizal Fungi under Simulated Nitrogen Deposition. *Mycologia*, **2002**, 94, 921	2.4	15
40	Plasticity and constraint in growth and protein mineralization of ectomycorrhizal fungi under simulated nitrogen deposition. *Mycologia*, **2002**, 94, 921-32	2.4	5
39	Resource partitioning and overlap in three sympatric species of Ips bark beetles (Coleoptera: Scolytidae). *Oecologia*, **2001**, 128, 443-453	2.9	67
38	Augmentation of AM fungi fails to ameliorate the adverse effects of temporal resource variation on a lettuce crop. *Plant and Soil*, **2001**, 236, 251-262	4.2	2
37	Climate Change and Forest Disturbances. *BioScience*, **2001**, 51, 723	5.7	1392
36	Interactions between fire and bark beetles in an old growth pine forest. *Forest Ecology and Management*, **2001**, 144, 245-254	3.9	61
35	Environmental effects on constitutive and inducible resin defences of Pinus taeda. *Ecology Letters*, **2000**, 3, 329-339	10	171
34	Biology, demography and community interactions of Tarsonemus (Acarina: Tarsonemidae) mites phoretic on Dendroctonus frontalis (Coleoptera: Scolytidae). *Agricultural and Forest Entomology*, **2000**, 2, 193-202	1.9	40
33	Causes of cyclicity of Epirrita autumnata (Lepidoptera, Geometridae): grandiose theory and tedious practice. *Population Ecology*, **2000**, 42, 211-223	2.1	139
32	NITROGEN BUDGETS OF PHLOEM-FEEDING BARK BEETLES WITH AND WITHOUT SYMBIOTIC FUNGI. *Ecology*, **2000**, 81, 2198-2210	4.6	205
31	Assessing the consequences of global change for forest disturbance from herbivores and pathogens. *Science of the Total Environment*, **2000**, 262, 263-86	10.2	526
30	Cold Tolerance of Four Species of Bark Beetle (Coleoptera: Scolytidae) in North America. *Environmental Entomology*, **2000**, 29, 421-432	2.1	71
29	NITROGEN BUDGETS OF PHLOEM-FEEDING BARK BEETLES WITH AND WITHOUT SYMBIOTIC FUNGI **2000**, 81, 2198		1

28	Host-driven population dynamics in an herbivorous insect. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 10735-40	11.5	55
27	Climate and the northern distribution limits of Dendroctonus frontalis Zimmermann (Coleoptera: Scolytidae). *Journal of Biogeography*, **1999**, 26, 1133-1145	4.1	147
26	JensenTs inequality predicts effects of environmental variation. *Trends in Ecology and Evolution*, **1999**, 14, 361-366	10.9	536
25	Understory herb assemblages 25 and 60 years after clearcutting of a northern hardwood forest, USA. *Biological Conservation*, **1999**, 90, 203-215	6.2	31
24	Effects of Atmospheric CO 2 , Light Availability and Tree Species on the Quality of Leaf Detritus as a Resource for Treehole Mosquitoes. *Oikos*, **1999**, 84, 277	4	16
23	Altitudinal patterns in host suitability for forest insects. *Oecologia*, **1998**, 117, 133-142	2.9	46
22	Loblolly pine responds to mechanical wounding with increased resin flow. *Canadian Journal of Forest Research*, **1998**, 28, 596-602	1.9	69
21	Global Change and Disturbance in Southern Forest Ecosystems. *Ecological Studies*, **1998**, 741-752	1.1	1
20	DIVERSITY OF STRUCTURE AND ANTIHERBIVORE ACTIVITY IN CONDENSED TANNINS. *Ecology*, **1997**, 78, 1696-1712	4.6	213
19	Effects of variation in quality of leaf detritus on growth of the eastern tree-hole mosquito, Aedes triseriatus (Diptera: Culicidae). *Canadian Journal of Zoology*, **1997**, 75, 706-718	1.5	79
18	Field Performance of F 1 -Sterile Gypsy Moth Larvae (Lepidoptera: Lymantriidae) on Loblolly Pine and Sweetgum. *Environmental Entomology*, **1996**, 25, 749-756	2.1	8
17	Host Suitability, Predation, and Bark Beetle Population Dynamics **1995**, 339-357		40
16	Local Adaptation to Regional Climates in Papilio Canadensis (Lepidoptera: Papilionidae). *Ecological Monographs*, **1994**, 64, 465-482	9	172
15	Temperature Effects on Growth and Molt of Nematus calais (Hymenoptera: Tenthredinidae). *Environmental Entomology*, **1994**, 23, 719-725	2.1	10
14	Within-Tree and Among-Tree Variation in Leaf Characteristics of Mountain Birch and Its Implications for Herbivory. *Oikos*, **1994**, 70, 212	4	49
13	Differential Use of Lauraceous Hosts by Swallowtail Butterflies, Papilio troilus and P. palamedes (Papilionidae). *Oikos*, **1992**, 63, 244	4	44
12	Cold tolerance of the pupae in relation to the distribution of swallowtail butterflies. *Canadian Journal of Zoology*, **1991**, 69, 3028-3037	1.5	54
11	Larval Adaptation to Lauraceous Hosts: Geographic Divergence in the Spicebush Swallowtail Butterfly. *Ecology*, **1991**, 72, 1428-1435	4.6	37

10	ALTERNATIVE FORMULATIONS OF THE MIXED-MODEL ANOVA APPLIED TO QUANTITATIVE GENETICS. *Evolution; International Journal of Organic Evolution*, **1990**, 44, 221-226	3.8	66
9	Adult Nutrition Affects Male Virility in Papilio glaucus L.. *Functional Ecology*, **1990**, 4, 743	5.6	46
8	Development of Birch Leaves and the Growth Energetics of Epirrita Autumnata (Geometridae). *Ecology*, **1987**, 68, 558-568	4.6	93
7	Molt as a Component of Insect Development: Galerucella sagittariae (Chrysomelidae) and Epirrita autumnata (Geometridae). *Oikos*, **1987**, 48, 273	4	49
6	Growth performance of Epirrita autumnata (Lepidoptera: Geometridae) on mountain birch: trees, broods, and tree x brood interactions. *Oecologia*, **1987**, 74, 450-457	2.9	46
5	Estimation of Soil Temperature from Climatic Variables at Barrow, Alaska, U.S.A.. *Arctic and Alpine Research*, **1985**, 17, 425		9
4	The impact is in the details: evaluating a standardized protocol and scale for determining non-native insect impact. *NeoBiota*,55, 61-83	4.2	2
3	Emerging mosquitoes (Aedes nigripes) as a resource subsidy for wolf spiders (Pardosa glacialis) in western Greenland. *Polar Biology*,1	2	2
2	Predicting non-native insect impact: focusing on the trees to see the forest. *Biological Invasions*,1	2.7	1
1	Demography of an invading forest insect reunited with hosts and parasitoids from its native range. *NeoBiota*,72, 81-107	4.2	0