Arjen Biere

List of Publications by Year
in descending order

97 papers	6,024 citations	53794 45 h-index	76900 74 g-index
99 all docs	99 docs citations	99 times ranked	6800 citing authors

#	Article	IF	Citations
1	Effects of Light Quality on Colonization of Tomato Roots by AMF and Implications for Growth and Defense. Plants, 2022, 11, 861.	3.5	4
2	Invasive earthworms reduce chemical defense and increase herbivory and pathogen infection in native trees. Journal of Ecology, 2021, 109, 763-775.	4.0	8
3	Interactive Effects of Mycorrhizae, Soil Phosphorus, and Light on Growth and Induction and Priming of Defense in Plantago lanceolata. Frontiers in Plant Science, 2021, 12, 647372.	3.6	15
4	Tackling the Context-Dependency of Microbial-Induced Resistance. Agronomy, 2021, 11, 1293.	3.0	20
5	Effects of soil biota on growth, resistance and tolerance to herbivory in Triadica sebifera plants. Geoderma, 2021, 402, 115191.	5.1	7
6	Plant traits shape soil legacy effects on individual plantâ€“insect interactions. Oikos, 2020, 129, 261-273.	2.7	25
7	MÃ©nage Ã Trois: Unraveling the Mechanisms Regulating Plantâ€“Microbeâ€“Arthropod Interactions. Trends in Plant Science, 2020, 25, 1215-1226.	8.8	31
8	Antagonistic interactions between above- and belowground biota reduce their negative effects on a tree species. Plant and Soil, 2020, 454, 379-393.	3.7	10
9	Pollination and fruit infestation under artificial light at night:light colour matters. Scientific Reports, 2020, 10, 18389.	3.3	10
10	Exogenous application of plant hormones in the field alters aboveground plantâ€“insect responses and belowground nutrient availability, but does not lead to differences in plantâ€“soil feedbacks. Arthropod-Plant Interactions, 2020, 14, 559-570.	1.1	2
11	Simulated heatwave conditions associated with global warming affect development and competition between hyperparasitoids. Oikos, 2019, 128, 1783-1792.	2.7	7
12	Rain downpours affect survival and development of insect herbivores: the specter of climate change?. Ecology, 2019, 100, e02819.	3.2	36
13	Interactions between functionally diverse fungal mutualists inconsistently affect plant performance and competition. Oikos, 2019, 128, 1136-1146.	2.7	10
14	Differential effects of climate warming on reproduction and functional responses on insects in the fourth trophic level. Functional Ecology, 2019, 33, 693-702.	3.6	26
15	Responses of insect herbivores and their food plants to wind exposure and the importance of predation risk. Journal of Animal Ecology, 2018, 87, 1046-1057.	2.8	12
16	Increased transgenerational epigenetic variation, but not predictable epigenetic variants, after environmental exposure in two apomictic dandelion lineages. Ecology and Evolution, 2018, 8, 3047-3059.	1.9	17
17	Plant community composition but not plant traits determine the outcome of soil legacy effects on plants and insects. Journal of Ecology, 2018, 106, 1217-1229.	4.0	54
18	Plant responses to variable timing of aboveground clipping and belowground herbivory depend on plant age. Journal of Plant Ecology, 2018, 11, 696-708.	2.3	12

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19	Growing Research Networks on Mycorrhizae for Mutual Benefits. Trends in Plant Science, 2018, 23, 975-984.	8.8	51
20	Effects of Soil Organisms on Aboveground Plant-Insect Interactions in the Field: Patterns, Mechanisms and the Role of Methodology. Frontiers in Ecology and Evolution, 2018, 6, .	2.2	67
21	A plant pathogen modulates the effects of secondary metabolites on the performance and immune function of an insect herbivore. Oikos, 2018, 127, 1539-1549.	2.7	26
22	Species-specific plantâ€"soil feedbacks alter herbivore-induced gene expression and defense chemistry in Plantago lanceolata. Oecologia, 2018, 188, 801-811.	2.0	36
23	Root symbionts: Powerful drivers of plant aboveâ€•and belowground indirect defenses. Insect Science, 2017, 24, 947-960.	3.0	91
24	The promises and challenges of research on plantâ€"insectâ€"microbe interactions. Insect Science, 2017, 24, 904-909.	3.0	16
25	Timing of simulated aboveground herbivory influences population dynamics of root-feeding nematodes. Plant and Soil, 2017, 415, 215-228.	3.7	8
26	Soil pathogen-aphid interactions under differences in soil organic matter and mineral fertilizer. PLoS ONE, 2017, 12, e0179695.	2.5	5
27	Plant-Mediated Systemic Interactions Between Pathogens, Parasitic Nematodes, and Herbivores Above- and Belowground. Annual Review of Phytopathology, 2016, 54, 499-527.	7.8	88
28	Effects of plant cover on properties of rhizosphere and inter-plant soil in a semiarid valley, SW China. Soil Biology and Biochemistry, 2016, 94, 1-9.	8.8	25
29	The epigenetic footprint of poleward rangeâ€expanding plants in apomictic dandelions. Molecular Ecology, 2015, 24, 4406-4418.	3.9	49
30	Effects of the Timing of Herbivory on Plant Defense Induction and Insect Performance in Ribwort Plantain (Plantago lanceolata L.) Depend on Plant Mycorrhizal Status. Journal of Chemical Ecology, 2015, 41, 1006-1017.	1.8	42
31	Sequential effects of root and foliar herbivory on aboveground and belowground induced plant defense responses and insect performance. Oecologia, 2014, 175, 187-198.	2.0	32
32	Reciprocal interactions between native and introduced populations of common milkweed, Asclepias syriaca, and the specialist aphid, Aphis nerii. Basic and Applied Ecology, 2014, 15, 444-452.	2.7	6
33	Geographic parthenogenesis and plant-enemy interactions in the common dandelion. BMC Evolutionary Biology, 2013, 13, 23.	3.2	41
34	Trade-offs between chemical defence and regrowth capacity in Plantago lanceolata. Evolutionary Ecology, 2013, 27, 883-898.	1.2	8
35	Evolutionary adaptation in threeâ€way interactions between plants, microbes and arthropods. Functional Ecology, 2013, 27, 646-660.	3.6	73
36	Getting the ecology into interactions between plants and the plant growth-promoting bacterium Pseudomonas fluorescens. Frontiers in Plant Science, 2013, 4, 81.	3.6	121

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37	Threeâ€•way interactions between plants, microbes and insects. Functional Ecology, 2013, 27, 567-573.	3.6	134
38	Plants Know Where It Hurts: Root and Shoot Jasmonic Acid Induction Elicit Differential Responses in Brassica oleracea. PLoS ONE, 2013, 8, e65502.	2.5	63
39	How genetic modification of roots affects rhizosphere processes and plant performance. Journal of Experimental Botany, 2012, 63, 3475-3483.	4.8	21
40	Performance of secondary parasitoids on chemically defended and undefended hosts. Basic and Applied Ecology, 2012, 13, 241-249.	2.7	9
41	Population admixture, biological invasions and the balance between local adaptation and inbreeding depression. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2-8.	2.6	233
42	Effects of soil organisms on aboveground multitrophic interactions are consistent between plant genotypes mediating the interaction. Entomologia Experimentalis Et Applicata, 2011, 139, 197-206.	1.4	24
43	Differential Performance of a Specialist and Two Generalist Herbivores and Their Parasitoids on Plantago lanceolata. Journal of Chemical Ecology, 2011, 37, 765-778.	1.8	55
44	Ecological fits, mis-fits and lotteries involving insect herbivores on the invasive plant, Bunias orientalis. Biological Invasions, 2010, 12, 3045-3059.	2.4	64
45	Microorganisms and nematodes increase levels of secondary metabolites in roots and root exudates of Plantago lanceolata. Plant and Soil, 2010, 329, 117-126.	3.7	53
46	Effects of intraspecific variation in white cabbage (Brassica oleracea var. capitata) on soil organisms. Plant and Soil, 2010, 336, 509-518.	3.7	22
47	Stressâ€induced DNA methylation changes and their heritability in asexual dandelions. New Phytologist, 2010, 185, 1108-1118.	7.3	582
48	Changes in genomic methylation patterns during the formation of triploid asexual dandelion lineages. Molecular Ecology, 2010, 19, 315-324.	3.9	89
49	Intra-specific Differences in Root and Shoot Glucosinolate Profiles among White Cabbage (Brassica) Tj ETQq1 1 0.784314 rgBT /Overl	5.2	40
50	Chemical defense, mycorrhizal colonization and growth responses in Plantago lanceolata L.. Oecologia, 2009, 160, 433-442.	2.0	60
51	Disease Status and Population Origin Effects on Floral Scent: Potential Consequences for Oviposition and Fruit Predation in A Complex Interaction Between A Plant, Fungus, and Noctuid Moth. Journal of Chemical Ecology, 2009, 35, 307-319.	1.8	50
52	Silene as a model system in ecology and evolution. Heredity, 2009, 103, 5-14.	2.6	203
53	Plant invaders and their novel natural enemies: who is naÃ¯ve?. Ecology Letters, 2009, 12, 107-117.	6.4	149
54	An Apomixis-Geneâ€™s View on Dandelions. , 2009, , 475-493.		22

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55	Oviposition Cues for a Specialist Butterflyâ€“Plant Chemistry and Size. Journal of Chemical Ecology, 2008, 34, 1202-1212.	1.8	56
56	Intraspecific Variation in Plant Defense Alters Effects of Root Herbivores on Leaf Chemistry and Aboveground Herbivore Damage. Journal of Chemical Ecology, 2008, 34, 1360-1367.	1.8	58
57	Successful range-expanding plants experience less above-ground and below-ground enemy impact. Nature, 2008, 456, 946-948.	27.8	238
58	Local adaptation and the consequences of being dislocated from coevolved enemies. New Phytologist, 2008, 180, 265-268.	7.3	12
59	Habitatâ€specific natural selection at a floweringâ€time QTL is a main driver of local adaptation in two wild barley populations. Molecular Ecology, 2008, 17, 3416-3424.	3.9	63
60	Optimum and Maximum Host Sizes at Parasitism for the Endoparasitoid <I>Hyposoter didymator</I> (Hymenoptera: Ichneumonidae) Differ Greatly Between Two Host Species. Environmental Entomology, 2007, 36, 1048-1053.	1.4	8
61	The parasitoid complex associated with the herbivoreHadena bicruris(Lepidoptera: Noctuidae) onSilene latifolia(Caryophyllaceae) in the Netherlands. Journal of Natural History, 2007, 41, 101-123.	0.5	23
62	Host Fidelity of the Pollinator Guilds of Silene dioica and Silene latifolia: Possible Consequences for Sympatric Host Race Differentiation of a Vectored Plant Disease. International Journal of Plant Sciences, 2007, 168, 421-434.	1.3	34
63	Distribution and colonisation ability of three parasitoids and their herbivorous host in a fragmented landscape. Basic and Applied Ecology, 2007, 8, 75-88.	2.7	79
64	Time after time: flowering phenology and biotic interactions. Trends in Ecology and Evolution, 2007, 22, 432-439.	8.7	556
65	Coping with third parties in a nursery pollination mutualism: Hadena bicruris avoids oviposition on pathogenâ€infected, less rewarding Silene latifolia. New Phytologist, 2006, 169, 719-727.	7.3	37
66	Host-related genetic differentiation in the anther smut fungus Microbotryum violaceum in sympatric, parapatric and allopatric populations of two host species Silene latifolia and S. dioica. Journal of Evolutionary Biology, 2005, 18, 203-212.	1.7	24
67	Plant population size and isolation affect herbivory of Silene latifolia by the specialist herbivore Hadena bicruris and parasitism of the herbivore by parasitoids. Oecologia, 2005, 144, 416-426.	2.0	63
68	Ecological and Evolutionary Consequences of Biological Invasion and Habitat Fragmentation. Ecosystems, 2005, 8, 657-667.	3.4	68
69	Effects of Quantitative Variation in Allelochemicals in Plantago lanceolata on Development of a Generalist and a Specialist Herbivore and their Endoparasitoids. Journal of Chemical Ecology, 2005, 31, 287-302.	1.8	125
70	Age-dependent clutch size in a koinobiont parasitoid. Ecological Entomology, 2005, 30, 17-27.	2.2	15
71	Putting your sons in the right place: the spatial distribution of fig wasp offspring inside figs. Ecological Entomology, 2005, 30, 210-219.	2.2	10
72	Increased susceptibility to enemies following introduction in the invasive plant Silene latifolia. Ecology Letters, 2004, 7, 813-820.	6.4	147

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73	THE GENETIC BASIS OF ADAPTIVE POPULATION DIFFERENTIATION: A QUANTITATIVE TRAIT LOCUS ANALYSIS OF FITNESS TRAITS IN TWO WILD BARLEY POPULATIONS FROM CONTRASTING HABITATS. Evolution; International Journal of Organic Evolution, 2004, 58, 270-283.	2.3	78
74	Plant chemical defense against herbivores and pathogens: generalized defense or trade-offs?. Oecologia, 2004, 140, 430-441.	2.0	130
75	Can a Genetic Correlation with Seed Mass Constrain Adaptive Evolution of Seedling Desiccation Tolerance in Wild Barley?. International Journal of Plant Sciences, 2004, 165, 281-288.	1.3	9
76	The genetic basis of adaptive population differentiation: a quantitative trait locus analysis of fitness traits in two wild barley populations from contrasting habitats. Evolution; International Journal of Organic Evolution, 2004, 58, 270-83.	2.3	25
77	Differential selection of growth rate-related traits in wild barley, Hordeum spontaneum, in contrasting greenhouse nutrient environments. Journal of Evolutionary Biology, 2003, 17, 184-196.	1.7	21
78	The effects of host weight at parasitism on fitness correlates of the gregarious koinobiont parasitoid Microplitis tristis and consequences for food consumption by its host, Hadena bicruris. Entomologia Experimentalis Et Applicata, 2003, 108, 95-106.	1.4	48
79	INTRASPECIFIC COMPETITION AND MATING BETWEEN FUNGAL STRAINS OF THE ANTHER SMUT MICROBOTRYUM VIOLACEUM FROM THE HOST PLANTS SILENE LATIFOLIA AND S. DIOICA. Evolution; International Journal of Organic Evolution, 2003, 57, 766-776.	2.3	21
80	FITNESS COSTS OF CHEMICAL DEFENSE IN PLANTAGO LANCEOLATA L.: EFFECTS OF NUTRIENT AND COMPETITION STRESS. Evolution; International Journal of Organic Evolution, 2003, 57, 2519-2530.	2.3	46
81	INTRASPECIFIC COMPETITION AND MATING BETWEEN FUNGAL STRAINS OF THE ANTHER SMUT MICROBOTRYUM VIOLACEUM FROM THE HOST PLANTS SILENE LATIFOLIA AND S. DIOICA. Evolution; International Journal of Organic Evolution, 2003, 57, 766.	2.3	21
82	A plant pathogen reduces the enemyâ€"free space of an insect herbivore on a shared host plant. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 2197-2204.	2.6	44
83	Two herbivore-deterrent iridoid glycosides reduce the in-vitro growth of a specialist but not of a generalist pathogenic fungus of Plantago lanceolata L. Chemoecology, 2002, 12, 185-192.	1.1	53
84	Systemic, genotype-specific induction of two herbivore-deterrent iridoid glycosides in Plantago lanceolata L. in response to fungal infection by Diaporthe adunca (Rob.) Niessel. Journal of Chemical Ecology, 2002, 28, 2429-2448.	1.8	48
85	Direct and correlated responses to selection on iridoid glycosides in Plantago lanceolata L.. Journal of Evolutionary Biology, 2000, 13, 985-996.	1.7	57
86	Anther Smut Transmission in Silene latifolia and Silene dioica: Impact of Host Traits, Disease Frequency, and Host Density. International Journal of Plant Sciences, 1998, 159, 228-235.	1.3	31
87	SEXâ€SPECIFIC COSTS OF RESISTANCE TO THE FUNGAL PATHOGEN <i>USTILAGO VIOLACEA</i> () Tj ETQq1 1 0.784314 rgBT /Overlo Evolution, 1996, 50, 1098-1110.	2.3	100
88	Impact of Flowering Phenology of Silene alba and S. dioica on Susceptibility to Fungal Infection and Seed Predation. Oikos, 1996, 77, 467.	2.7	77
89	Host adaptation in the anther smut fungus Ustilago violacea (Microbotryum violaceum): infection success, spore production and alteration of floral traits on two host species and their F1-hybrid. Oecologia, 1996, 107, 307-320.	2.0	55
90	Intra-specific variation in relative growth rate: impact on competitive ability and performance of Lychnis flos-cuculi in habitats differing in soil fertility. Plant and Soil, 1996, 182, 313-327.	3.7	34

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91	Sex-Specific Costs of Resistance to the Fungal Pathogen Ustilago violacea (Microbotryum violaceum) in Silene alba. Evolution; International Journal of Organic Evolution, 1996, 50, 1098.	2.3	75
92	Frequency-Dependent Disease Transmission and the Dynamics of the Silene-Ustilago Host-Pathogen System. American Naturalist, 1995, 145, 43-62.	2.1	66
93	Genotypic and Plastic Variation in Plant Size: Effects on Fecundity and Allocation Patterns in Lychnis Flos-Cuculi Along a Gradient of Natural Soil Fertility. Journal of Ecology, 1995, 83, 629.	4.0	80
94	Plant Life-History and Disease Susceptibility--The Occurrence of Ustilago Violacea on Different Species within the Caryophyllaceae. Journal of Ecology, 1993, 81, 489.	4.0	144
95	Parental effects in Lychnis flos-cuculi. I: Seed size, germination and seedling performance in a controlled environment. Journal of Evolutionary Biology, 1991, 4, 447-465.	1.7	96
96	Parental effects in Lychnis flos-cuculi. II: Selection on time of emergence and seedling performance in the field. Journal of Evolutionary Biology, 1991, 4, 467-486.	1.7	68
97	A Holistic Approach for Enhancing the Efficacy of Soil Microbial Inoculants in Agriculture. Global Journal of Agricultural Innovation Research & Development, 0, 8, 176-190.	0.2	13