# Arjen Biere

List of Publications by Year
in descending order

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

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Stressâ€induced DNA methylation changes and their heritability in asexual dandelions. New Phytologist, 2010, 185, 1108-1118. | 7.3 | 582 |
| 2 | Time after time: flowering phenology and biotic interactions. Trends in Ecology and Evolution, 2007, 22, 432-439. | 8.7 | 556 |
| 3 | Successful range-expanding plants experience less above-ground and below-ground enemy impact. Nature, 2008, 456, 946-948. | 27.8 | 238 |
| 4 | 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 |
| 5 | Silene as a model system in ecology and evolution. Heredity, 2009, 103, 5-14. | 2.6 | 203 |
| 6 | Plant invaders and their novel natural enemies: who is naÃ¨ve?. Ecology Letters, 2009, 12, 107-117. | 6.4 | 149 |
| 7 | Increased susceptibility to enemies following introduction in the invasive plant Silene latifolia. Ecology Letters, 2004, 7, 813-820. | 6.4 | 147 |
| 8 | 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 |
| 9 | Threeâ€way interactions between plants, microbes and insects. Functional Ecology, 2013, 27, 567-573. | 3.6 | 134 |
| 10 | Plant chemical defense against herbivores and pathogens: generalized defense or trade-offs?. Oecologia, 2004, 140, 430-441. | 2.0 | 130 |
| 11 | 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 |
| 12 | 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 |
| 13 | SEXâ€SPECIFIC COSTS OF RESISTANCE TO THE FUNGAL PATHOGEN USTILAGO VIOLACEA () Tj ETQq1 1 0.784314 rgBT /Overl<br>Evolution, 1996, 50, 1098-1110. | 2.3 | 100 |
| 14 | 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 |
| 15 | Root symbionts: Powerful drivers of plant aboveâ€and belowground indirect defenses. Insect Science, 2017, 24, 947-960. | 3.0 | 91 |
| 16 | Changes in genomic methylation patterns during the formation of triploid asexual dandelion lineages. Molecular Ecology, 2010, 19, 315-324. | 3.9 | 89 |
| 17 | Plant-Mediated Systemic Interactions Between Pathogens, Parasitic Nematodes, and Herbivores Above- and Belowground. Annual Review of Phytopathology, 2016, 54, 499-527. | 7.8 | 88 |
| 18 | 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 |

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|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | Evolutionary adaptation in threeâ€way interactions between plants, microbes and arthropods. Functional Ecology, 2013, 27, 646-660. | 3.6 | 73 |
| 24 | 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 |
| 25 | Ecological and Evolutionary Consequences of Biological Invasion and Habitat Fragmentation. Ecosystems, 2005, 8, 657-667. | 3.4 | 68 |
| 26 | 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 |
| 27 | Frequency-Dependent Disease Transmission and the Dynamics of the Silene-Ustilago Host-Pathogen System. American Naturalist, 1995, 145, 43-62. | 2.1 | 66 |
| 28 | Ecological fits, mis-fits and lotteries involving insect herbivores on the invasive plant, Bunias orientalis. Biological Invasions, 2010, 12, 3045-3059. | 2.4 | 64 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | Chemical defense, mycorrhizal colonization and growth responses in Plantago lanceolata L.. Oecologia, 2009, 160, 433-442. | 2.0 | 60 |
| 33 | 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 |
| 34 | Direct and correlated responses to selection on iridoid glycosides in Plantago lanceolata L.. Journal of Evolutionary Biology, 2000, 13, 985-996. | 1.7 | 57 |
| 35 | Oviposition Cues for a Specialist Butterflyâ€“Plant Chemistry and Size. Journal of Chemical Ecology, 2008, 34, 1202-1212. | 1.8 | 56 |
| 36 | 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 |

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|---|---|---|---|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | Growing Research Networks on Mycorrhizae for Mutual Benefits. Trends in Plant Science, 2018, 23, 975-984. | 8.8 | 51 |
| 42 | 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 |
| 43 | The epigenetic footprint of poleward rangeâ€expanding plants in apomictic dandelions. Molecular Ecology, 2015, 24, 4406-4418. | 3.9 | 49 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | Geographic parthenogenesis and plant-enemy interactions in the common dandelion. BMC Evolutionary Biology, 2013, 13, 23. | 3.2 | 41 |
| 50 | Intra-specific Differences in Root and Shoot Glucosinolate Profiles among White Cabbage (Brassica) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 5.2 | 40 |
| 51 | 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 |
| 52 | Species-specific plantâ€“soil feedbacks alter herbivore-induced gene expression and defense chemistry in Plantago lanceolata. Oecologia, 2018, 188, 801-811. | 2.0 | 36 |
| 53 | Rain downpours affect survival and development of insect herbivores: the specter of climate change?. Ecology, 2019, 100, e02819. | 3.2 | 36 |
| 54 | 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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|---|---|---|---|
| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | MÃ©nage Ã Trois: Unraveling the Mechanisms Regulating Plantâ€“Microbeâ€“Arthropod Interactions. Trends in Plant Science, 2020, 25, 1215-1226. | 8.8 | 31 |
| 59 | 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 |
| 60 | 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 |
| 61 | 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 |
| 62 | Plant traits shape soil legacy effects on individual plantâ€“insect interactions. Oikos, 2020, 129, 261-273. | 2.7 | 25 |
| 63 | 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 |
| 64 | 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 |
| 65 | 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 |
| 66 | 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 |
| 67 | Effects of intraspecific variation in white cabbage (Brassica oleracea var. capitata) on soil organisms. Plant and Soil, 2010, 336, 509-518. | 3.7 | 22 |
| 68 | An Apomixis-Geneâ€™s View on Dandelions. , 2009, , 475-493. | | 22 |
| 69 | 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 |
| 70 | 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 |
| 71 | 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 |
| 72 | How genetic modification of roots affects rhizosphere processes and plant performance. Journal of Experimental Botany, 2012, 63, 3475-3483. | 4.8 | 21 |

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|---|---|---|---|
| 73 | Tackling the Context-Dependency of Microbial-Induced Resistance. Agronomy, 2021, 11, 1293. | 3.0 | 20 |
| 74 | 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 |
| 75 | The promises and challenges of research on plantâ€“insectâ€“microbe interactions. Insect Science, 2017, 24, 904-909. | 3.0 | 16 |
| 76 | Age-dependent clutch size in a koinobiont parasitoid. Ecological Entomology, 2005, 30, 17-27. | 2.2 | 15 |
| 77 | 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 |
| 78 | 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 |
| 79 | Local adaptation and the consequences of being dislocated from coevolved enemies. New Phytologist, 2008, 180, 265-268. | 7.3 | 12 |
| 80 | 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 |
| 81 | 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 |
| 82 | 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 |
| 83 | Interactions between functionally diverse fungal mutualists inconsistently affect plant performance and competition. Oikos, 2019, 128, 1136-1146. | 2.7 | 10 |
| 84 | 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 |
| 85 | Pollination and fruit infestation under artificial light at night:light colour matters. Scientific Reports, 2020, 10, 18389. | 3.3 | 10 |
| 86 | 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 |
| 87 | Performance of secondary parasitoids on chemically defended and undefended hosts. Basic and Applied Ecology, 2012, 13, 241-249. | 2.7 | 9 |
| 88 | 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 |
| 89 | Trade-offs between chemical defence and regrowth capacity in Plantago lanceolata. Evolutionary Ecology, 2013, 27, 883-898. | 1.2 | 8 |
| 90 | Timing of simulated aboveground herbivory influences population dynamics of root-feeding nematodes. Plant and Soil, 2017, 415, 215-228. | 3.7 | 8 |

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|---|---|---|---|
| 91 | Invasive earthworms reduce chemical defense and increase herbivory and pathogen infection in native trees. Journal of Ecology, 2021, 109, 763-775. | 4.0 | 8 |
| 92 | Simulated heatwave conditions associated with global warming affect development and competition between hyperparasitoids. Oikos, 2019, 128, 1783-1792. | 2.7 | 7 |
| 93 | Effects of soil biota on growth, resistance and tolerance to herbivory in Triadica sebifera plants. Geoderma, 2021, 402, 115191. | 5.1 | 7 |
| 94 | 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 |
| 95 | Soil pathogen-aphid interactions under differences in soil organic matter and mineral fertilizer. PLoS ONE, 2017, 12, e0179695. | 2.5 | 5 |
| 96 | Effects of Light Quality on Colonization of Tomato Roots by AMF and Implications for Growth and Defense. Plants, 2022, 11, 861. | 3.5 | 4 |
| 97 | 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 |