

Årjan Totland

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

7,417
citations

87888

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56724

83
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98
all docs

98
docs citations

98
times ranked

9198
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | From The Cover: Plant community responses to experimental warming across the tundra biome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1342-1346. | 7.1 | 1,060 |
| 2 | How does climate warming affect plant-pollinator interactions?. <i>Ecology Letters</i> , 2009, 12, 184-195. | 6.4 | 838 |
| 3 | Global assessment of experimental climate warming on tundra vegetation: heterogeneity over space and time. <i>Ecology Letters</i> , 2012, 15, 164-175. | 6.4 | 764 |
| 4 | Global negative vegetation feedback to climate warming responses of leaf litter decomposition rates in cold biomes. <i>Ecology Letters</i> , 2007, 10, 619-627. | 6.4 | 379 |
| 5 | BioTIME: A database of biodiversity time series for the Anthropocene. <i>Global Ecology and Biogeography</i> , 2018, 27, 760-786. | 5.8 | 289 |
| 6 | The relative importance of neighbours and abiotic environmental conditions for population dynamic parameters of two alpine plant species. <i>Journal of Ecology</i> , 2005, 93, 493-501. | 4.0 | 219 |
| 7 | Do alien plant invasions really affect pollination success in native plant species?. <i>Biological Conservation</i> , 2007, 138, 1-12. | 4.1 | 219 |
| 8 | SIMULATED CLIMATE CHANGE ALTERED DOMINANCE HIERARCHIES AND DIVERSITY OF AN ALPINE BIODIVERSITY HOTSPOT. <i>Ecology</i> , 2005, 86, 2047-2054. | 3.2 | 215 |
| 9 | Plant functional traits mediate reproductive phenology and success in response to experimental warming and snow addition in Tibet. <i>Global Change Biology</i> , 2013, 19, 459-472. | 9.5 | 197 |
| 10 | ENVIRONMENT-DEPENDENT POLLEN LIMITATION AND SELECTION ON FLORAL TRAITS IN AN ALPINE SPECIES. <i>Ecology</i> , 2001, 82, 2233-2244. | 3.2 | 187 |
| 11 | Relationships between species' floral traits and pollinator visitation in a temperate grassland. <i>Oecologia</i> , 2005, 145, 586-594. | 2.0 | 154 |
| 12 | Pollination in alpine Norway: flowering phenology, insect visitors, and visitation rates in two plant communities. <i>Canadian Journal of Botany</i> , 1993, 71, 1072-1079. | 1.1 | 134 |
| 13 | The relationships between floral traits and specificity of pollination systems in three Scandinavian plant communities. <i>Oecologia</i> , 2008, 157, 249-257. | 2.0 | 109 |
| 14 | Effects of temperature and date of snowmelt on growth, reproduction, and flowering phenology in the arctic/alpine herb, <i>Ranunculus glacialis</i> . <i>Oecologia</i> , 2002, 133, 168-175. | 2.0 | 104 |
| 15 | Pollen Limitation in the Alpine: A Meta-Analysis. <i>Arctic, Antarctic, and Alpine Research</i> , 2009, 41, 103-111. | 1.1 | 102 |
| 16 | Co-flowering neighbors influence the diversity and identity of pollinator groups visiting plant species. <i>Oikos</i> , 2009, 118, 691-702. | 2.7 | 101 |
| 17 | Bamboo dominance reduces tree regeneration in a disturbed tropical forest. <i>Oecologia</i> , 2011, 165, 161-168. | 2.0 | 97 |
| 18 | Effects of temperature on performance and phenotypic selection on plant traits in alpine <i>Ranunculus acris</i> . <i>Oecologia</i> , 1999, 120, 242-251. | 2.0 | 81 |

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|----|--|------|-----------|
| 19 | Warming shortens flowering seasons of tundra plant communities. <i>Nature Ecology and Evolution</i> , 2019, 3, 45-52. | 7.8 | 79 |
| 20 | Effects of an exotic plant and habitat disturbance on pollinator visitation and reproduction in a boreal forest herb. <i>American Journal of Botany</i> , 2006, 93, 868-873. | 1.7 | 73 |
| 21 | Recovery of plant species richness and composition after slash-and-burn agriculture in a tropical rainforest in Madagascar. <i>Biodiversity and Conservation</i> , 2010, 19, 187-204. | 2.6 | 72 |
| 22 | Pollen limitation of reproductive success in two sympatric alpine willows (Salicaceae) with contrasting pollination strategies. <i>American Journal of Botany</i> , 2001, 88, 1011-1015. | 1.7 | 71 |
| 23 | Is the magnitude of pollen limitation in a plant community affected by pollinator visitation and plant species specialisation levels?. <i>Oikos</i> , 2008, 117, 883-891. | 2.7 | 65 |
| 24 | Pollen limitation, speciesâ€™ floral traits and pollinator visitation: different relationships in contrasting communities. <i>Oikos</i> , 2015, 124, 174-186. | 2.7 | 64 |
| 25 | Plant Species Richness, Evenness, and Composition along Environmental Gradients in an Alpine Meadow Grazing Ecosystem in Central Tibet, China. <i>Arctic, Antarctic, and Alpine Research</i> , 2014, 46, 308-326. | 1.1 | 61 |
| 26 | The relative role of dispersal and local interactions for alpine plant community diversity under simulated climate warming. <i>Oikos</i> , 2007, 116, 1279-1288. | 2.7 | 60 |
| 27 | Experimental warming differentially affects vegetative and reproductive phenology of tundra plants. <i>Nature Communications</i> , 2021, 12, 3442. | 12.8 | 56 |
| 28 | Does forest gap size affects population size, plant size, reproductive success and pollinator visitation in <i>Lantana camara</i> , a tropical invasive shrub?. <i>Forest Ecology and Management</i> , 2005, 215, 329-338. | 3.2 | 52 |
| 29 | The relative importance of positive and negative interactions for pollinator attraction in a plant community. <i>Ecological Research</i> , 2009, 24, 929-936. | 1.5 | 52 |
| 30 | Edge effects on plant communities along power line clearings. <i>Journal of Applied Ecology</i> , 2015, 52, 871-880. | 4.0 | 52 |
| 31 | Relationships between the floral neighborhood and individual pollen limitation in two self-incompatible herbs. <i>Oecologia</i> , 2009, 160, 707-719. | 2.0 | 50 |
| 32 | How do pollinator visitation rate and seed set relate to speciesâ€™ floral traits and community context?. <i>Oecologia</i> , 2013, 173, 881-893. | 2.0 | 50 |
| 33 | Limitations on reproduction in alpine <i>Ranunculus acris</i> . <i>Canadian Journal of Botany</i> , 1997, 75, 137-144. | 1.1 | 48 |
| 34 | Determinants of pollinator activity and flower preference in the early spring blooming <i>Crocus vernus</i> . <i>Acta Oecologica</i> , 1998, 19, 155-165. | 1.1 | 43 |
| 35 | Short-term effects of simulated environmental changes on phenology, reproduction, and growth in the late-flowering snowbed herb <i>Saxifraga stellaris</i> L.. <i>Ecoscience</i> , 2000, 7, 201-213. | 1.4 | 42 |
| 36 | The effect of forest management operations on population performance of <i>Vaccinium myrtillus</i> on a landscape-scale. <i>Basic and Applied Ecology</i> , 2007, 8, 231-241. | 2.7 | 42 |

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|----|---|-----|-----------|
| 37 | Environmentally-dependent pollen limitation on seed production in alpine <i>Ranunculus acris</i> . <i>Ecoscience</i> , 1999, 6, 173-179. | 1.4 | 41 |
| 38 | Local floral composition and the behaviour of pollinators: attraction to and foraging within experimental patches. <i>Ecological Entomology</i> , 2010, 35, 652-661. | 2.2 | 41 |
| 39 | Factors related to the inter-annual variation in plants' pollination generalization levels within a community. <i>Oikos</i> , 2010, 119, 825-834. | 2.7 | 40 |
| 40 | Structural properties of mutualistic networks withstand habitat degradation while species functional roles might change. <i>Oikos</i> , 2014, 123, 323-333. | 2.7 | 40 |
| 41 | Wind to insect pollination ratios and floral traits in five alpine <i>Salix</i> species. <i>Canadian Journal of Botany</i> , 1999, 77, 556-563. | 1.1 | 38 |
| 42 | Variation in Pollen Limitation among Plants and Phenotypic Selection on Floral Traits in an Early-Spring Flowering Herb. <i>Oikos</i> , 1998, 82, 491. | 2.7 | 37 |
| 43 | Relationships between tree species richness, evenness and aboveground carbon storage in montane forests and miombo woodlands of Tanzania. <i>Basic and Applied Ecology</i> , 2015, 16, 239-249. | 2.7 | 37 |
| 44 | Breeding System, Insect Flower Visitation, and Floral Traits of Two Alpine <i>Cerastium</i> Species in Norway. <i>Arctic, Antarctic, and Alpine Research</i> , 2003, 35, 242-247. | 1.1 | 35 |
| 45 | Within-population spatial variation in pollinator visitation rates, pollen limitation on seed set, and flower longevity in an alpine species. <i>Acta Oecologica</i> , 2007, 32, 262-268. | 1.1 | 35 |
| 46 | Does multi-level environmental filtering determine the functional and phylogenetic composition of wild bee species assemblages?. <i>Ecography</i> , 2015, 38, 140-153. | 4.5 | 32 |
| 47 | No evidence for a role of pollinator discrimination in causing selection on flower size through female reproduction. <i>Oikos</i> , 2004, 106, 558-564. | 2.7 | 31 |
| 48 | Experimental reduction of pollinator visitation modifies plant-plant interactions for pollination. <i>Oikos</i> , 2014, 123, 1037-1048. | 2.7 | 29 |
| 49 | Effects of willow canopies on plant species performance in a low-alpine community. <i>Plant Ecology</i> , 2002, 161, 157-166. | 1.6 | 27 |
| 50 | Spatial distribution of temporal dynamics in anthropogenic fires in miombo savanna woodlands of Tanzania. <i>Carbon Balance and Management</i> , 2015, 10, 18. | 3.2 | 27 |
| 51 | Population dependence in the interactions with neighbors for pollination: A field experiment with <i>Taraxacum officinale</i> . <i>American Journal of Botany</i> , 2010, 97, 760-769. | 1.7 | 26 |
| 52 | Disentangling direct and indirect effects of habitat fragmentation on wild plants' pollinator visits and seed production. <i>Ecological Applications</i> , 2020, 30, e02099. | 3.8 | 26 |
| 53 | Habitat dependent nurse effects of the dwarf-shrub <i>Dryas octopetala</i> on alpine and arctic plant community structure. <i>Ecoscience</i> , 2004, 11, 410-420. | 1.4 | 24 |
| 54 | Experimental simulation of pollinator decline causes community-wide reductions in seedling diversity and abundance. <i>Ecology</i> , 2016, 97, 1420-1430. | 3.2 | 24 |

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|----|--|-----|-----------|
| 55 | Quantitative importance of staminodes for female reproductive success in <i>Parnassia palustris</i> under contrasting environmental conditions. <i>Canadian Journal of Botany</i> , 2003, 81, 49-56. | 1.1 | 23 |
| 56 | Interactions for pollinator visitation and their consequences for reproduction in a plant community. <i>Acta Oecologica</i> , 2012, 43, 95-103. | 1.1 | 22 |
| 57 | Effects of Temperature and Natural Disturbance on Growth, Reproduction, and Population Density in the Alpine Annual Hemiparasite <i>Euphrasia frigida</i> . <i>Arctic, Antarctic, and Alpine Research</i> , 1999, 31, 259-263. | 1.1 | 21 |
| 58 | Pollen limitation affects progeny vigour and subsequent recruitment in the insect-pollinated herb <i>Ranunculus acris</i> . <i>Oikos</i> , 2007, 116, 1204-1210. | 2.7 | 21 |
| 59 | Ecosystem responses to woody plant encroachment in a semiarid savanna rangeland. <i>Plant Ecology</i> , 2013, 214, 1211-1222. | 1.6 | 21 |
| 60 | Are Droppings, Distance From Pastoralist Camps, and Pika Burrows Good Proxies for Local Grazing Pressure?. <i>Rangeland Ecology and Management</i> , 2013, 66, 26-33. | 2.3 | 21 |
| 61 | Experimental pollinator decline affects plant reproduction and is mediated by plant mating system. <i>Journal of Pollination Ecology</i> , 0, 11, 46-56. | 0.5 | 21 |
| 62 | Species composition and functional structure of herbaceous vegetation in a tropical wetland system. <i>Biodiversity and Conservation</i> , 2012, 21, 2865-2885. | 2.6 | 20 |
| 63 | The effects of habitat management on the species, phylogenetic and functional diversity of bees are modified by the environmental context. <i>Ecology and Evolution</i> , 2016, 6, 961-973. | 1.9 | 20 |
| 64 | The effects of environmental variables and human disturbance on woody species richness and diversity in a bamboo-deciduous forest in northeastern Thailand. <i>Ecological Research</i> , 2009, 24, 147-156. | 1.5 | 19 |
| 65 | Interactions between Canopy Structure and Herbaceous Biomass along Environmental Gradients in Moist Forest and Dry Miombo Woodland of Tanzania. <i>PLoS ONE</i> , 2015, 10, e0142784. | 2.5 | 19 |
| 66 | Pollinator visitation, pollen limitation, and selection on flower size through female function in contrasting habitats within a population of <i>Campanula persicifolia</i> . <i>Canadian Journal of Botany</i> , 2006, 84, 412-420. | 1.1 | 17 |
| 67 | Forest fragmentation modifies the composition of bumblebee communities and modulates their trophic and competitive interactions for pollination. <i>Scientific Reports</i> , 2020, 10, 10872. | 3.3 | 17 |
| 68 | Effects of experimentally simulated pollinator decline on recruitment in two European herbs. <i>Journal of Ecology</i> , 2015, 103, 328-337. | 4.0 | 16 |
| 69 | Simulated Environmental Change Has Contrasting Effects on Defensive Compound Concentration in Three Alpine Plant Species. <i>Arctic, Antarctic, and Alpine Research</i> , 2008, 40, 709-715. | 1.1 | 15 |
| 70 | Woody plant assemblages in isolated forest patches in a semiarid agricultural matrix. <i>Biodiversity and Conservation</i> , 2013, 22, 2519-2535. | 2.6 | 15 |
| 71 | Does the abundance of dominant trees affect diversity of a widespread tropical woodland ecosystem in Tanzania?. <i>Journal of Tropical Ecology</i> , 2015, 31, 345-359. | 1.1 | 15 |
| 72 | Recovery of Plant Species Richness and Composition in an Abandoned Forest Settlement Area in Kenya. <i>Restoration Ecology</i> , 2012, 20, 462-474. | 2.9 | 14 |

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|----|--|-----|-----------|
| 73 | Disentangling the contributions of dispersal limitation, ecological drift, and ecological filtering to wild bee community assembly. <i>Ecosphere</i> , 2017, 8, e01650. | 2.2 | 14 |
| 74 | Breeding System and Effects of Plant Size and Flowering Time on Reproductive Success in the Alpine Herb <i>Saxifraga stellaris</i> L.. <i>Arctic, Antarctic, and Alpine Research</i> , 1999, 31, 196-201. | 1.1 | 13 |
| 75 | Enhancing pollination is more effective than increased conventional agriculture inputs for improving watermelon yields. <i>Ecology and Evolution</i> , 2020, 10, 5343-5353. | 1.9 | 13 |
| 76 | Willow Canopies and Plant Community Structure along an Alpine Environmental Gradient. <i>Arctic, Antarctic, and Alpine Research</i> , 2004, 36, 428-435. | 1.1 | 12 |
| 77 | Diversity-Stability Relationships of an Alpine Plant Community under Simulated Environmental Change. <i>Arctic, Antarctic, and Alpine Research</i> , 2008, 40, 679-684. | 1.1 | 12 |
| 78 | Effects of Temperature and Natural Disturbance on Growth, Reproduction, and Population Density in the Alpine Annual Hemiparasite <i>Euphrasia frigida</i> . <i>Arctic, Antarctic, and Alpine Research</i> , 1999, 31, 259. | 1.1 | 12 |
| 79 | Heating effect by perianth retention on developing achenes and implications for seed production in the alpine herb <i>Ranunculus glacialis</i> . <i>Alpine Botany</i> , 2014, 124, 37-47. | 2.4 | 11 |
| 80 | Intense use of woody plants in a semiarid environment of Northern Ethiopia: Effects on species composition, richness and diversity. <i>Journal of Arid Environments</i> , 2015, 114, 14-21. | 2.4 | 11 |
| 81 | Spatio-temporal variation in species assemblages in field edges: seasonally distinct responses of solitary bees to local habitat characteristics and landscape conditions. <i>Biodiversity and Conservation</i> , 2014, 23, 2393-2414. | 2.6 | 10 |
| 82 | Inadequate pollination services limit watermelon yields in northern Tanzania. <i>Basic and Applied Ecology</i> , 2020, 44, 35-45. | 2.7 | 10 |
| 83 | Community invasibility and invasion by non-native <i>Fraxinus pennsylvanica</i> trees in a degraded tropical forest. <i>Biological Invasions</i> , 2014, 16, 2747-2755. | 2.4 | 9 |
| 84 | Spatial variation in plant species richness and diversity along human disturbance and environmental gradients in a tropical wetland. <i>Wetlands Ecology and Management</i> , 2015, 23, 395-404. | 1.5 | 9 |
| 85 | The relative importance of vertical soil nutrient heterogeneity, and mean and depth-specific soil nutrient availabilities for tree species richness in tropical forests and woodlands. <i>Oecologia</i> , 2016, 182, 877-888. | 2.0 | 9 |
| 86 | Influence of Two N-Fixing Legumes on Plant Community Properties and Soil Nutrient Levels in an Alpine Ecosystem. <i>Arctic, Antarctic, and Alpine Research</i> , 2013, 45, 363-371. | 1.1 | 8 |
| 87 | Performance of two alpine plant species along environmental gradients in an alpine meadow ecosystem in central Tibet. <i>Ecological Research</i> , 2016, 31, 417-426. | 1.5 | 8 |
| 88 | Breeding System and Effects of Plant Size and Flowering Time on Reproductive Success in the Alpine Herb <i>Saxifraga stellaris</i> L.. <i>Arctic, Antarctic, and Alpine Research</i> , 1999, 31, 196. | 1.1 | 8 |
| 89 | Do disturbance and productivity influence evenness of seedling, sapling and adult tree species across a semi-deciduous tropical forest landscape?. <i>Oikos</i> , 2011, 120, 623-629. | 2.7 | 7 |
| 90 | Relationships between densities of previous and simultaneous foragers and the foraging behaviour of three bumblebee species. <i>Ecological Entomology</i> , 2011, 36, 221-230. | 2.2 | 7 |

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|----|--|-----|-----------|
| 91 | Community level niche overlap and broad scale biogeographic patterns of bee communities are driven by phylogenetic history. <i>Journal of Biogeography</i> , 2018, 45, 461-472. | 3.0 | 7 |
| 92 | Is the magnitude of pollen limitation in a plant community affected by pollinator visitation and plant species specialisation levels?. <i>Oikos</i> , 2008, . | 2.7 | 7 |
| 93 | Relationships between the density of two potential restoration tree species and plant species abundance and richness in a degraded <i>A</i> fromontane forest of <i>K</i> enya. <i>African Journal of Ecology</i> , 2014, 52, 77-87. | 0.9 | 5 |
| 94 | Invasion of the cosmopolitan species <i>Echinochloa colona</i> into herbaceous vegetation of a tropical wetland system. <i>Ecological Research</i> , 2014, 29, 969-979. | 1.5 | 3 |
| 95 | Locally endangered tree species in a dry montane forest are enhanced by high woody species richness but affected by human disturbance. <i>Journal of Arid Environments</i> , 2018, 158, 19-27. | 2.4 | 2 |
| 96 | Willow Canopies and Plant Community Structure along an Alpine Environmental Gradient. <i>Arctic, Antarctic, and Alpine Research</i> , 2004, 36, 428. | 1.1 | 1 |
| 97 | Pollen Limitation in the Alpine: A Meta-Analysis. <i>Arctic, Antarctic, and Alpine Research</i> , 2009, 41, 103-111. | 1.1 | 1 |
| 98 | Ontogenetic niche shifts in a locally endangered tree species (<i>Olea europaea</i> subsp. <i>cuspidata</i>) in a disturbed forest in Northern Ethiopia: Implications for conservation. <i>PLoS ONE</i> , 2021, 16, e0256843. | 2.5 | 0 |