Frank Berendse

List of Publications by Year
in descending order

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112	12,631	19657 61	26613 107
papers	citations	h-index	g-index

113	113	113	13148
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Persistent negative effects of pesticides on biodiversity and biological control potential on European farmland. Basic and Applied Ecology, 2010, 11, 97-105.	2.7	1,039
2	Consequences of biodiversity loss for litter decomposition across biomes. Nature, 2014, 509, 218-221.	27.8	600
3	Agri-environment schemes do not effectively protect biodiversity in Dutch agricultural landscapes. Nature, 2001, 413, 723-725.	27.8	526
4	Plant species identity and diversity effects on different trophic levels of nematodes in the soil food web. Oikos, 2004, 106, 576-586.	2.7	356
5	Diversity-productivity relationships: Initial effects, long-term patterns, and underlying mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 695-700.	7.1	335
6	Reconciling complexity with stability in naturally assembling food webs. Nature, 2007, 449, 599-602.	27.8	328
7	Raised atmospheric CO2 levels and increased N deposition cause shifts in plant species composition and production in Sphagnum bogs. Global Change Biology, 2001, 7, 591-598.	9.5	307
8	The effect of increased nutrient availability on vegetation dynamics in wet heathlands. Plant Ecology, 1988, 76, 63-69.	1.2	279
9	A global synthesis of the effects of diversified farming systems on arthropod diversity within fields and across agricultural landscapes. Global Change Biology, 2017, 23, 4946-4957.	9.5	259
10	Predicting ecosystem stability from community composition and biodiversity. Ecology Letters, 2013, 16, 617-625.	6.4	251
11	Diversity enhances community recovery, but not resistance, after drought. Journal of Ecology, 2010, 98, 81-86.	4.0	227
12	Loss of Plant Species Diversity Reduces Soil Erosion Resistance. Ecosystems, 2015, 18, 881-888.	3.4	222
13	Agricultural intensification and biodiversity partitioning in European landscapes comparing plants, carabids, and birds. , 2011, 21, 1772-1781.		221
14	Plant species richness promotes soil carbon and nitrogen stocks in grasslands without legumes. Journal of Ecology, 2014, 102, 1163-1170.	4.0	220
15	Unveiling belowâ€ground species abundance in a biodiversity experiment: a test of vertical niche differentiation among grassland species. Journal of Ecology, 2010, 98, 1117-1127.	4.0	219
16	Mixed effects of organic farming and landscape complexity on farmland biodiversity and biological control potential across Europe. Journal of Applied Ecology, 2011, 48, 570-579.	4.0	205
17	Competition in Heathland along an Experimental Gradient of Nutrient Availability. Oikos, 1990, 57, 310.	2.7	181
18	Diversity reduces invasibility in experimental plant communities: the role of plant species. Ecology Letters, 2003, 6, 910-918.	6.4	180

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19	Litter Decomposability -- A Neglected Component of Plant Fitness. Journal of Ecology, 1994, 82, 187.	4.0	179
20	Ecological Effectiveness of Agri-Environment Schemes in Different Agricultural Landscapes in The Netherlands. Conservation Biology, 2004, 18, 775-786.	4.7	177
21	Root morphological plasticity and nutrient acquisition of perennial grass species from habitats of different nutrient availability. Oecologia, 1998, 115, 351-358.	2.0	175
22	SOIL NUTRIENT HETEROGENEITY ALTERS COMPETITION BETWEEN TWO PERENNIAL GRASS SPECIES. Ecology, 2001, 82, 2534-2546.	3.2	174
23	Effects of Dominant Plant Species on Soils during Succession in Nutrient-poor Ecosystems. Biogeochemistry, 1998, 42, 73-88.	3.5	168
24	Positive effects of plant species diversity on productivity in the absence of legumes. Ecology Letters, 2003, 6, 170-175.	6.4	168
25	Lost in diversity: the interactions between soilâ€borne fungi, biodiversity and plant productivity. New Phytologist, 2018, 218, 542-553.	7.3	160
26	Effects of nutrients and shade on treeâ€grass interactions in an East African savanna. Journal of Vegetation Science, 2001, 12, 579-588.	2.2	153
27	N deposition affects N availability in interstitial water, growth of Sphagnum and invasion of vascular plants in bog vegetation. New Phytologist, 2003, 157, 339-347.	7.3	151
28	Artificial light at night causes diapause inhibition and sexâ€specific life history changes in a moth. Ecology and Evolution, 2014, 4, 2082-2089.	1.9	151
29	Permafrost collapse after shrub removal shifts tundra ecosystem to a methane source. Nature Climate Change, 2015, 5, 67-70.	18.8	147
30	Competition and Nutrient Availability in Heathland and Grassland Ecosystems. , 1990, , 93-116.		139
31	Reduced plantâ€“soil feedback of plant species expanding their range as compared to natives. Journal of Ecology, 2007, 95, 1050-1057.	4.0	131
32	How litter quality affects mass loss and N loss from decomposing Sphagnum. Oikos, 2003, 103, 537-547.	2.7	128
33	How Phosphorus Availability Affects the Impact of Nitrogen Deposition on Sphagnum and Vascular Plants in Bogs. Ecosystems, 2004, 7, 793-804.	3.4	128
34	Decreased summer water table depth affects peatland vegetation. Basic and Applied Ecology, 2009, 10, 330-339.	2.7	124
35	Factors underlying farmersâ€™ intentions to perform unsubsidised agri-environmental measures. Land Use Policy, 2016, 59, 207-216.	5.6	124
36	Experimental illumination of natural habitatâ€”an experimental set-up to assess the direct and indirect ecological consequences of artificial light of different spectral composition. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140129.	4.0	120

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37	The angiosperm radiation revisited, an ecological explanation for Darwinâ€™s â€˜abominable mysteryâ€™. Ecology Letters, 2009, 12, 865-872.	6.4	118
38	Effects of elevated carbon dioxide and increased nitrogen deposition on bog vegetation in the Netherlands. Journal of Ecology, 2001, 89, 268-279.	4.0	115
39	Competition between plant populations with different rooting depths. Oecologia, 1982, 53, 50-55.	2.0	114
40	Artificial light at night inhibits mating in a Geometrid moth. Insect Conservation and Diversity, 2015, 8, 282-287.	3.0	106
41	Interactive effects of water table and precipitation on net CO₂ assimilation of three coâ€occurring Sphagnum mosses differing in distribution above the water table. Global Change Biology, 2009, 15, 680-691.	9.5	104
42	The effect of temperature on growth and competition between Sphagnum species. Oecologia, 2008, 156, 155-167.	2.0	94
43	Energy or nutrient regulation of decomposition: Implications for the mineralization-immobilization response to perturbations. Soil Biology and Biochemistry, 1984, 16, 63-67.	8.8	92
44	The effect of plant species on soil nitrogen mineralization. Journal of Ecology, 2001, 89, 555-561.	4.0	90
45	Leaf litter quality drives litter mixing effects through complementary resource use among detritivores. Oecologia, 2013, 173, 269-280.	2.0	90
46	Plant species as predictors of soil pH: Replacing expert judgement with measurements. Journal of Vegetation Science, 2005, 16, 461-470.	2.2	88
47	Plant species and nutritional-mediated control over rhizodeposition and root decomposition. Plant and Soil, 2001, 228, 191-200.	3.7	87
48	Declining Biodiversity in Agricultural Landscapes and the Effectiveness of Agri-environment Schemes. Ambio, 2004, 33, 499-502.	5.5	87
49	The effect of lignin and nitrogen on the decomposition of litter in nutrient-poor ecosystems: a theoretical approach. Canadian Journal of Botany, 1987, 65, 1116-1120.	1.1	86
50	Competition between Plant Populations at Low and High Nutrient Supplies. Oikos, 1994, 71, 253.	2.7	86
51	Response of ground-nesting farmland birds to agricultural intensification across Europe: Landscape and field level management factors. Biological Conservation, 2012, 152, 74-80.	4.1	86
52	Longâ€term effects of climate change on vegetation and carbon dynamics in peat bogs. Journal of Vegetation Science, 2008, 19, 307-320.	2.2	85
53	Direct and indirect effects of the most widely implemented Dutch agri-environment schemes on breeding waders. Journal of Applied Ecology, 2006, 44, 70-80.	4.0	83
54	Competition between plant populations with different rooting depths II. Pot experiments. Oecologia, 1981, 48, 334-341.	2.0	79

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55	Diversity of symbiotic root endophytes of the Helotiales in ericaceous plants and the grass, Deschampsia flexuosa. Studies in Mycology, 2005, 53, 147-162.	7.2	78
56	Macroâ€detritivore identity drives leaf litter diversity effects. Oikos, 2011, 120, 1092-1098.	2.7	77
57	Plantâ€“soil interactions in the expansion and native range of a poleward shifting plant species. Global Change Biology, 2010, 16, 380-385.	9.5	75
58	Experimental manipulation of succession in heathland ecosystems. Oecologia, 1994, 100-100, 38-44.	2.0	74
59	Collective agri-environment schemes: How can regional environmental cooperatives enhance farmersâ€™ intentions for agri-environment schemes?. Land Use Policy, 2015, 42, 759-766.	5.6	73
60	The Nitrogen Cycle in Boreal Peatlands. , 2006, , 195-230.		69
61	Artificial night lighting disrupts sex pheromone in a noctuid moth. Ecological Entomology, 2015, 40, 401-408.	2.2	69
62	Photosynthetic performance in Sphagnum transplanted along a latitudinal nitrogen deposition gradient. Oecologia, 2009, 159, 705-715.	2.0	68
63	Methane emissions in two drained peat agro-ecosystems with high and low agricultural intensity. Plant and Soil, 2010, 329, 509-520.	3.7	68
64	Plant species richness regulates soil respiration through changes in productivity. Oecologia, 2010, 163, 805-813.	2.0	67
65	The effect of increased temperature and nitrogen deposition on decomposition in bogs. Oikos, 2008, 117, 1258-1268.	2.7	60
66	Effects of Increased Nitrogen Deposition on the Distribution of 15N-labeled Nitrogen between Sphagnum and Vascular Plants. Ecosystems, 2002, 5, 500-508.	3.4	57
67	Can frequent precipitation moderate the impact of drought on peatmoss carbon uptake in northern peatlands?. New Phytologist, 2014, 203, 70-80.	7.3	57
68	Impacts of Elevated Carbon Dioxide and Temperature on a Boreal Forest Ecosystem (CLIMEX Project). Ecosystems, 1998, 1, 345-351.	3.4	55
69	Effects of competition on rootâ€“shoot allocation in Plantago lanceolata L.: adaptive plasticity or ontogenetic drift?. Plant Ecology, 2009, 201, 567-573.	1.6	55
70	Recovery of plant species richness during long-term fertilization of a species-rich grassland. Ecology, 2011, 92, 1393-1398.	3.2	53
71	Competition between Sphagnum magellanicum and Eriophorum angustifolium as affected by raised CO2 and increased N deposition. Oikos, 2002, 97, 415-425.	2.7	52
72	Landscape composition influences farm management effects on farmland birds in winter: A pan-European approach. Agriculture, Ecosystems and Environment, 2010, 139, 571-577.	5.3	51

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73	Changes in soil and vegetation during dune slack succession. Journal of Vegetation Science, 2004, 15, 209-218.	2.2	49
74	Seasonal changes and vertical distribution of root standing biomass of graminoids and shrubs at a Siberian tundra site. Plant and Soil, 2016, 407, 55-65.	3.7	49
75	Aboveâ€•and belowâ€ground responses of four tundra plant functional types to deep soil heating and surface soil fertilization. Journal of Ecology, 2017, 105, 947-957.	4.0	49
76	Field Simulation of Global Change: Transplanting Northern Bog Mesocosms Southward. Ecosystems, 2010, 13, 712-726.	3.4	47
77	Interactions between spatially separated herbivores indirectly alter plant diversity. Ecology Letters, 2004, 8, 30-37.	6.4	46
78	Effects of elevated CO 2 and vascular plants on evapotranspiration in bog vegetation. Global Change Biology, 2001, 7, 817-827.	9.5	44
79	Embryo dune development drivers: beach morphology, growing season precipitation, and storms. Earth Surface Processes and Landforms, 2017, 42, 1733-1744.	2.5	44
80	The interaction between epiphytic algae, a parasitic fungus and Sphagnum as affected by N and P. Oikos, 2003, 103, 59-68.	2.7	43
81	Response of Sphagnum species mixtures to increased temperature and nitrogen availability. Plant Ecology, 2009, 204, 97-111.	1.6	43
82	Do meadow birds profit from agri-environment schemes in Dutch agricultural landscapes?. Biological Conservation, 2009, 142, 2949-2953.	4.1	41
83	Agriculture intensification reduces plant taxonomic and functional diversity across European arable systems. Functional Ecology, 2020, 34, 1448-1460.	3.6	39
84	Response of a Sphagnum bog plant community to elevated CO2 and N supply. Plant Ecology, 2002, 162, 123-134.	1.6	37
85	Experimental light at night has a negative long-term impact on macro-moth populations. Current Biology, 2020, 30, R694-R695.	3.9	36
86	Taxonomic and functional diversity of farmland bird communities across Europe: effects of biogeography and agricultural intensification. Biodiversity and Conservation, 2011, 20, 3663-3681.	2.6	34
87	The effect of nutrient supply and light intensity on tannins and mycorrhizal colonisation in Dutch heathland ecosystems. Plant Ecology, 2009, 201, 661-675.	1.6	33
88	Short-term and long-term effects of tannins on nitrogen mineralisation and litter decomposition in kauri (Agathis australis (D. Don) Lindl.) forests. Plant and Soil, 2006, 287, 337-345.	3.7	32
89	Plant-Herbivore Interaction and Its Consequences for Succession in Wetland Ecosystems: A Modeling Approach. Ecosystems, 1999, 2, 122-138.	3.4	31
90	Speciesâ€™ traits influence ground beetle responses to farm and landscape level agricultural intensification in Europe. Journal of Insect Conservation, 2014, 18, 837-846.	1.4	31

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91	Diversity effects on root length production and loss in an experimental grassland community. Functional Ecology, 2015, 29, 1560-1568.	3.6	31
92	Title is missing!. Plant Ecology, 2000, 148, 51-59.	1.6	26
93	Habitat use and diet of Skylarks (Alauda arvensis) wintering in an intensive agricultural landscape of the Netherlands. Journal of Ornithology, 2014, 155, 507-518.	1.1	26
94	Including hydrological self-regulating processes in peatland models: Effects on peatmoss drought projections. Science of the Total Environment, 2017, 580, 1389-1400.	8.0	26
95	Soil heterogeneity and plant species diversity in experimental grassland communities: contrasting effects of soil nutrients and pH at different spatial scales. Plant and Soil, 2019, 442, 497-509.	3.7	26
96	The effectiveness of ditch banks as dispersal corridor for plants in agricultural landscapes depends on speciesâ€™ dispersal traits. Biological Conservation, 2014, 171, 91-98.	4.1	24
97	The role of summer precipitation and summer temperature in establishment and growth of dwarf shrub Betula nana in northeast Siberian tundra. Polar Biology, 2016, 39, 1245-1255.	1.2	24
98	Spatial heterogeneity in plantâ€“soil feedbacks alters competitive interactions between two grassland plant species. Functional Ecology, 2018, 32, 2085-2094.	3.6	24
99	How Does Tree Density Affect Water Loss of Peatlands? A Mesocosm Experiment. PLoS ONE, 2014, 9, e91748.	2.5	23
100	Density-dependency and plant-soil feedback: former plant abundance influences competitive interactions between two grassland plant species through plant-soil feedbacks. Plant and Soil, 2018, 428, 441-452.	3.7	20
101	Effects of litters with different concentrations of phenolics on the competition between Calluna vulgaris and Deschampsia flexuosa. Plant and Soil, 2010, 327, 131-141.	3.7	19
102	Thaw pond development and initial vegetation succession in experimental plots at a Siberian lowland tundra site. Plant and Soil, 2017, 420, 147-162.	3.7	19
103	MODEL ANALYSIS OF THE EFFECTS OF HISTORIC CO2LEVELS AND NITROGEN INPUTS ON VEGETATION SUCCESSION. , 1999, 9, 920-935.		16
104	A matter of time: Recovery of plant species diversity in wild plant communities at declining nitrogen deposition. Diversity and Distributions, 2021, 27, 1180-1193.	4.1	16
105	Highâ€resolution peat volume change in a northern peatland: Spatial variability, main drivers, and impact on ecohydrology. Ecohydrology, 2019, 12, e2114.	2.4	14
106	Temporal effects of agri-environment schemes on ditch bank plant species. Basic and Applied Ecology, 2013, 14, 289-297.	2.7	13
107	Soil Nutrient Heterogeneity Alters Competition between Two Perennial Grass Species. Ecology, 2001, 82, 2534.	3.2	12
108	Do Field Margins Enrich the Diet of the Eurasian SkylarkAlauda arvensison Intensive Farmland?. Ardea, 2014, 102, 161-174.	0.6	9

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109	Effects of grass field margin management on food availability for Black-tailed Godwit chicks. Journal for Nature Conservation, 2016, 29, 45-50.	1.8	7
110	Food Availability for Meadow Bird Families in Grass Field Margins. Ardea, 2015, 103, 17-26.	0.6	5
111	Plant species as predictors of soil pH: Replacing expert judgement with measurements. Journal of Vegetation Science, 2005, 16, 461.	2.2	5
112	Travelling to a former sea floor: colonization of forests by understorey plant species on land recently reclaimed from the sea. Journal of Vegetation Science, 2010, 21, 167-176.	2.2	2