Vigdis Vandvik

List of Publications by Year
in descending order

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123 papers	5,028 citations	94269 37 h-index	110170 64 g-index
134 all docs	134 docs citations	134 times ranked	7823 citing authors

#	Article	IF	Citations
1	Higher predation risk for insect prey at low latitudes and elevations. Science, 2017, 356, 742-744.	6.0	353
2	Nitrogen deposition threatens species richness of grasslands across Europe. Environmental Pollution, 2010, 158, 2940-2945.	3.7	316
3	Local temperatures inferred from plant communities suggest strong spatial buffering of climate warming across <scp>N</scp>orthern <scp>E</scp>urope. Global Change Biology, 2013, 19, 1470-1481.	4.2	200
4	Dispersal Limitations Matter for Microbial Morphospecies. Science, 2006, 312, 1015-1015.	6.0	195
5	Open Science principles for accelerating trait-based science across the Tree of Life. Nature Ecology and Evolution, 2020, 4, 294-303.	3.4	144
6	Stay or go â€“ how topographic complexity influences alpine plant population and community responses to climate change. Perspectives in Plant Ecology, Evolution and Systematics, 2018, 30, 41-50.	1.1	141
7	Intraspecific Trait Variation and Phenotypic Plasticity Mediate Alpine Plant Species Response to Climate Change. Frontiers in Plant Science, 2018, 9, 1548.	1.7	131
8	Impact of nitrogen deposition at the species level. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 984-987.	3.3	126
9	Managing heterogeneity: the importance of grazing and environmental variation on post-fire succession in heathlands. Journal of Applied Ecology, 2005, 42, 139-149.	1.9	119
10	Synchrony matters more than species richness in plant community stability at a global scale. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24345-24351.	3.3	113
11	From facilitation to competition: temperatureâ€driven shift in dominant plant interactions affects population dynamics in seminatural grasslands. Global Change Biology, 2016, 22, 1915-1926.	4.2	101
12	Physical dormancy in seeds: a game of hide and seek?. New Phytologist, 2013, 198, 496-503.	3.5	98
13	Testing the novelty effect of an m-learning tool on internalization and achievement: A Self-Determination Theory approach. Computers and Education, 2019, 128, 398-413.	5.1	95
14	The effect of a mobile-application tool on biology students' motivation and achievement in species identification: A Self-Determination Theory perspective. Computers and Education, 2017, 107, 1-12.	5.1	88
15	The Importance of Biotic vs. Abiotic Drivers of Local Plant Community Composition Along Regional Bioclimatic Gradients. PLoS ONE, 2015, 10, e0130205.	1.1	88
16	Seed banks are biodiversity reservoirs: speciesâ€“area relationships above versus below ground. Oikos, 2016, 125, 218-228.	1.2	87
17	The role of fire in UK peatland and moorland management: the need for informed, unbiased debate. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150342.	1.8	78
18	Genetic differentiation and plasticity interact along temperature and precipitation gradients to determine plant performance under climate change. Journal of Ecology, 2017, 105, 1358-1373.	1.9	78

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19	Temperature, precipitation and biotic interactions as determinants of tree seedling recruitment across the tree line ecotone. Oecologia, 2015, 179, 599-608.	0.9	70
20	Can trait patterns along gradients predict plant community responses to climate change?. Ecology, 2016, 97, 2791-2801.	1.5	70
21	The effects of mâ€learning on motivation, achievement and wellâ€being: A Selfâ€Determination Theory approach. British Journal of Educational Technology, 2019, 50, 669-683.	3.9	70
22	Variable desiccation tolerance in Acer pseudoplatanus seeds in relation to developmental conditions: a case of phenotypic recalcitrance?. Functional Plant Biology, 2006, 33, 59.	1.1	69
23	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). Methods in Ecology and Evolution, 2020, 11, 22-37.	2.2	68
24	The impact of nitrogen deposition on acid grasslands in the Atlantic region of Europe. Environmental Pollution, 2011, 159, 2243-2250.	3.7	67
25	Changing contributions of stochastic and deterministic processes in community assembly over a successional gradient. Ecology, 2018, 99, 148-157.	1.5	66
26	Prescribed burning of northern heathlands: CallunaÂvulgaris germination cues and seed-bank dynamics. Plant Ecology, 2010, 207, 245-256.	0.7	64
27	Changes in species composition of European acid grasslands observed along a gradient of nitrogen deposition. Journal of Vegetation Science, 2011, 22, 207-215.	1.1	60
28	Title is missing!. Plant Ecology, 2002, 162, 233-245.	0.7	57
29	Climate change affects the outcome of competitive interactions?an application of principal response curves. Oecologia, 2004, 139, 459-466.	0.9	55
30	Long-Term Effects of Reclamation Treatments on Plant Succession in Iceland. Restoration Ecology, 2004, 12, 268-278.	1.4	52
31	Modeling alpine plant distributions at the landscape scale: Do biotic interactions matter?. Ecological Modelling, 2012, 231, 1-10.	1.2	47
32	Life after fire: smoke and ash as germination cues in ericads, herbs and graminoids of northern heathlands. Applied Vegetation Science, 2014, 17, 670-679.	0.9	47
33	Succession after prescribed burning in coastal <scp>C</scp>alluna heathlands along a 340â€km latitudinal gradient. Journal of Vegetation Science, 2014, 25, 546-558.	1.1	46
34	Recent treeline dynamics are similar between dry and mesic areas of Nepal, central Himalaya. Journal of Plant Ecology, 2015, 8, 347-358.	1.2	46
35	Sources of Diversity in a Grassland Metacommunity: Quantifying the Contribution of Dispersal to Species Richness. American Naturalist, 2006, 168, 157-167.	1.0	43
36	Winters are changing: snow effects on Arctic and alpine tundra ecosystems. Arctic Science, 2022, 8, 572-608.	0.9	43

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37	Biotic rescaling reveals importance of species interactions for variation in biodiversity responses to climate change. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22858-22865.	3.3	42
38	Do seed mass and family affect germination and juvenile performance in Knautia arvensis? A study using failure-time methods. Acta Oecologica, 2004, 25, 169-178.	0.5	41
39	Buffering effects of soil seed banks on plant community composition in response to land use and climate. Global Ecology and Biogeography, 2021, 30, 128-139.	2.7	41
40	Seedling emergence responds to both seed source and recruitment site climates: a climate change experiment combining transplant and gradient approaches. Plant Ecology, 2013, 214, 607-619.	0.7	40
41	Responses of alpine snowbed vegetation to long-term experimental warming. Ecoscience, 2004, 11, 150-159.	0.6	39
42	Disjunct populations of <scp>E</scp>uropean vascular plant species keep the same climatic niches. Global Ecology and Biogeography, 2015, 24, 1401-1412.	2.7	39
43	Gap dynamics in perennial subalpine grasslands: trends and processes change during secondary succession. Journal of Ecology, 2004, 92, 86-96.	1.9	38
44	Diversity and distribution patterns of benthic invertebrates along alpine gradients. A study of remote European freshwater lakes. Advances in Limnology, 2009, 62, 167-190.	0.4	37
45	Testing macroecological abundance patterns: The relationship between local abundance and range size, range position and climatic suitability among European vascular plants. Journal of Biogeography, 2020, 47, 2210-2222.	1.4	35
46	Management-driven evolution in a domesticated ecosystem. Biology Letters, 2014, 10, 20131082.	1.0	34
47	Multiscale mapping of plant functional groups and plant traits in the High Arctic using field spectroscopy, UAV imagery and Sentinel-2A data. Environmental Research Letters, 2021, 16, 055006.	2.2	34
48	Biotic interaction effects on seedling recruitment along bioclimatic gradients: testing the stressâ€gradient hypothesis. Journal of Vegetation Science, 2017, 28, 347-356.	1.1	33
49	The devil is in the detail: Nonadditive and contextâ€dependent plant population responses to increasing temperature and precipitation. Global Change Biology, 2018, 24, 4657-4666.	4.2	33
50	Direct and sizeâ€dependent effects of climate on flowering performance in alpine and lowland herbaceous species. Journal of Vegetation Science, 2014, 25, 275-286.	1.1	31
51	Conditions favouring hard seededness as a dispersal and predator escape strategy. Journal of Ecology, 2014, 102, 1475-1484.	1.9	30
52	Fire and regeneration: the role of seed banks in the dynamics of northern heathlands. Journal of Vegetation Science, 2009, 20, 871-888.	1.1	27
53	Does prescribed burning result in biotic homogenization of coastal heathlands?. Global Change Biology, 2014, 20, 1429-1440.	4.2	27
54	Restoration of bracken-invaded Calluna vulgaris heathlands: Effects on vegetation dynamics and non-target species. Biological Conservation, 2008, 141, 1032-1042.	1.9	26

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55	Temperature and precipitation, but not geographic distance, explain genetic relatedness among populations in the perennial grass Festuca rubra. Journal of Plant Ecology, 2019, 12, 730-741.	1.2	26
56	Pollination service delivery for European crops: Challenges and opportunities. Ecological Economics, 2016, 128, 1-7.	2.9	25
57	Consistent traitâ€“environment relationships within and across tundra plant communities. Nature Ecology and Evolution, 2021, 5, 458-467.	3.4	25
58	Conditional cold avoidance drives between-population variation in germination behaviour in Calluna vulgaris. Annals of Botany, 2013, 112, 801-810.	1.4	23
59	Tree-growth response to climatic variability in two climatically contrasting treeline ecotone areas, central Himalaya, Nepal. Canadian Journal of Forest Research, 2015, 45, 1643-1653.	0.8	23
60	Pattern and process in Norwegian upland grasslands: a functional analysis. Journal of Vegetation Science, 2002, 13, 123-134.	1.1	22
61	Mountain summer farms in RÃ¸ldal, western Norway â€“ vegetation classification and patterns in species turnover and richness. Plant Ecology, 2004, 170, 203-222.	0.7	22
62	Transplants, Open Top Chambers (OTCs) and Gradient Studies Ask Different Questions in Climate Change Effects Studies. Frontiers in Plant Science, 2018, 9, 1574.	1.7	22
63	Plastic Population Effects and Conservative Leaf Traits in a Reciprocal Transplant Experiment Simulating Climate Warming in the Himalayas. Frontiers in Plant Science, 2018, 9, 1069.	1.7	22
64	A reporting format for leaf-level gas exchange data and metadata. Ecological Informatics, 2021, 61, 101232.	2.3	22
65	How many freshwater diatoms are pH specialists? A response to Pither & Aarssen (2005). Ecology Letters, 2006, 9, E1-5; discussion E6-12.	3.0	21
66	Greening up the mountain. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 833-835.	3.3	21
67	Can parasites synchronise the population fluctuations of sympatric tetraonids? -examining some minimum conditions. Oikos, 2005, 109, 429-434.	1.2	20
68	The age of Calluna stands moderates postâ€fire regeneration rate and trends in northern Calluna heathlands. Applied Vegetation Science, 2012, 15, 119-128.	0.9	20
69	Functional traits, not productivity, predict alpine plant community openness to seedling recruitment under climatic warming. Oikos, 2020, 129, 13-23.	1.2	17
70	Biomass partitioning in grassland plants along independent gradients in temperature and precipitation. Perspectives in Plant Ecology, Evolution and Systematics, 2016, 19, 1-11.	1.1	16
71	Macroecological context predicts species' responses to climate warming. Global Change Biology, 2021, 27, 2088-2101.	4.2	16
72	Directional trends in species composition over time can lead to a widespread overemphasis of yearâ€toâ€year asynchrony. Journal of Vegetation Science, 2020, 31, 792-802.	1.1	15

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73	Different sets of traits explain abundance and distribution patterns of European plants at different spatial scales. Journal of Vegetation Science, 2021, 32, e13016.	1.1	15
74	Introducing the index-based ecological condition assessment framework (IBECA). Ecological Indicators, 2021, 124, 107252.	2.6	15
75	Germination ecology of the clonal herb Knautia arvensis: Regeneration strategy and geographic variation. Journal of Vegetation Science, 2003, 14, 591-600.	1.1	14
76	Effects of invasion by introduced versus native conifers on coastal heathland vegetation. Journal of Vegetation Science, 2013, 24, 744-754.	1.1	14
77	Long-Term Climate Regime Modulates the Impact of Short-Term Climate Variability on Decomposition in Alpine Grassland Soils. Ecosystems, 2018, 21, 1580-1592.	1.6	14
78	Germination ecology of the clonal herb Knautia arvensis: Regeneration strategy and geographic variation. Journal of Vegetation Science, 2003, 14, 591.	1.1	13
79	Alien plants, animals, fungi and algae in Norway: an inventory of neobiota. Biological Invasions, 2019, 21, 2997-3012.	1.2	13
80	Plant traits and vegetation data from climate warming experiments along an 1100â€‰m elevation gradient in Gongga Mountains, China. Scientific Data, 2020, 7, 189.	2.4	13
81	Improved quantification of UV-B absorbing compounds in Pinus sylvestris L. pollen grains using an internal standard methodology. Review of Palaeobotany and Palynology, 2017, 247, 97-104.	0.8	13
82	Do vascular plants and bryophytes respond differently to coniferous invasion of coastal heathlands?. Biological Invasions, 2014, 16, 775-791.	1.2	12
83	Understanding ecosystems of the future will require more than realistic climate change experiments â€“ A response to Korell et al.. Global Change Biology, 2020, 26, e6-e7.	4.2	12
84	Vital rates in early life history underlie shifts in biotic interactions along bioclimatic gradients: An experimental test of the Stress Gradient Hypothesis. Journal of Vegetation Science, 2021, 32, e13006.	1.1	12
85	Distinguishing the roles of dispersal in diversity maintenance and in diversity limitation. Folia Geobotanica, 2005, 40, 45-52.	0.4	11
86	Assessing sampling coverage of species distribution in biodiversity databases. Journal of Vegetation Science, 2019, 30, 620-632.	1.1	11
87	Nextâ€generation field courses: Integrating Open Science and online learning. Ecology and Evolution, 2021, 11, 3577-3587.	0.8	11
88	Think globally, measure locally: The MIREN standardized protocol for monitoring plant species distributions along elevation gradients. Ecology and Evolution, 2022, 12, e8590.	0.8	11
89	Reducing Wooden Structure and Wildland-Urban Interface Fire Disaster Risk through Dynamic Risk Assessment and Management. Applied System Innovation, 2020, 3, 16.	2.7	10
90	Grassland species composition and biogeochemistry in 153 sites along environmental gradients in Europe. Ecology, 2011, 92, 1544-1544.	1.5	9

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91	Plastic and genetic responses to shifts in snowmelt time affects the reproductive phenology and growth of Ranunculus acris. Perspectives in Plant Ecology, Evolution and Systematics, 2018, 30, 62-70.	1.1	9
92	Setting reference levels and limits for good ecological condition in terrestrial ecosystems â€“ Insights from a case study based on the IBECA approach. Ecological Indicators, 2020, 116, 106492.	2.6	9
93	Alien species in Norway: Results from quantitative ecological impact assessments. Ecological Solutions and Evidence, 2020, 1, e12006.	0.8	9
94	Maternal effects strengthen interactions of temperature and precipitation, determining seed germination of dominant alpine grass species. American Journal of Botany, 2021, 108, 798-810.	0.8	9
95	Differential Effects of Oxidised and Reduced Nitrogen on Vegetation and Soil Chemistry of Species-Rich Acidic Grasslands. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	8
96	Restoration potential of native forests after removal of Picea abies plantations. Forest Ecology and Management, 2013, 305, 77-87.	1.4	7
97	Massive structural and compositional changes over two decades in forest fragments near Kampala, Uganda. Ecology and Evolution, 2013, 3, 3804-3823.	0.8	7
98	The Seed and Fern Spore Bank of a Recovering African Tropical Forest. Biotropica, 2014, 46, 677-686.	0.8	7
99	Quantifying the roles of seed dispersal, filtering, and climate on regional patterns of grassland biodiversity. Ecology, 2020, 101, e03061.	1.5	7
100	North <scp>A</scp>tlantic Islands with native and alien trees: are there differences in diversity and speciesâ€area relationships?. Journal of Vegetation Science, 2014, 25, 213-225.	1.1	6
101	The crypsis hypothesis explained: a reply to Jayasuriya et al. (2015). Seed Science Research, 2015, 25, 402-408.	0.8	6
102	Temporal patterns in Saturnidae (silk moth) and Sphingidae (hawk moth) assemblages in protected forests of central Uganda. Ecology and Evolution, 2015, 5, 1746-1757.	0.8	6
103	Pattern and process in Norwegian upland grasslands: a functional analysis. , 2002, 13, 123.		6
104	From a crisis to an opportunity: Eight insights for doing science in the COVIDâ€19 era and beyond. Ecology and Evolution, 2021, 11, 3588-3596.	0.8	6
105	Invasion of Calluna heath by native and non-native conifers: the role of succession, disturbance and allelopathy. Plant Ecology, 2013, 214, 975-985.	0.7	5
106	Is palaeoecology a â€˜special branchâ€™ of ecology?. Holocene, 2015, 25, 17-24.	0.9	5
107	The peatland vegetation burning debate: keep scientific critique in perspective. A response to Brown et al . and Douglas et al .. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20160434.	1.8	5
108	Seedling recruitment in subalpine grassland forbs: Predicting field regeneration behaviour from lab germination responses. Botany, 2017, 95, 73-88.	0.5	5

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109	Rainfall and temperature change drive Arnica montana population dynamics at the Northern distribution edge. Oecologia, 2019, 191, 565-578.	0.9	5
110	Coastal heathland vegetation is surprisingly resistant to experimental drought across successional stages and latitude. Oikos, 2021, 130, 2015-2027.	1.2	5
111	Management-driven evolution in a domesticated ecosystem. Biology Letters, 2014, 10, 20140156.	1.0	4
112	Plant functional group responses in an African tropical forest recovering from disturbance. Plant Ecology and Diversity, 2016, 9, 69-80.	1.0	4
113	Avian guild assemblages in forest fragments around Budongo Forest Reserve, western Uganda. Ostrich, 2017, 88, 267-276.	0.4	4
114	Adding Value to a Fieldâ€Based Course with a Science Communication Module on Local Perceptions of Climate Change. Bulletin of the Ecological Society of America, 2020, 101, e01680.	0.2	4
115	Back to Africa: monitoring post-hydropower restoration to facilitate reintroduction of an extinct-in-the-wild amphibian. Ecosphere, 2014, 5, art95.	1.0	4
116	Informed debate on the use of fire for peatland management means acknowledging the complexity of socio-ecological systems. Nature Conservation, 0, 16, 59-77.	0.0	4
117	LOTVS: A global collection of permanent vegetation plots. Journal of Vegetation Science, 2022, 33, .	1.1	4
118	More than what they eat: uncoupled biophysical constraints underlie geographic patterns of herbivory. Ecography, 2023, 2023, .	2.1	4
119	Evolutionary Rescue as a Mechanism Allowing a Clonal Grass to Adapt to Novel Climates. Frontiers in Plant Science, 2021, 12, 659479.	1.7	3
120	Biodiversity of Acid Grasslands in the Atlantic Regions of Europe: The Impact of Nitrogen Deposition. , 2014, , 243-250.		3
121	Editorial: Responses to Climate Change in the Cold Biomes. Frontiers in Plant Science, 2019, 10, 347.	1.7	2
122	Effects of climate change on regeneration of plants from seeds in boreal, subarctic, and subalpine regions. , 2022, , 19-32.		2
123	Functional traits of alpine plant communities show longâ€term resistance to changing herbivore densities. Ecosphere, 2021, 12, .	1.0	2