David A Wardle

List of Publications by Citations

354 papers	54,574 citations	97 h-index	230 g-index
371 ext. papers	62,996 ext. citations	8.2 avg, IF	7.76 L-index

#	Paper	IF	Citations
354	EFFECTS OF BIODIVERSITY ON ECOSYSTEM FUNCTIONING: A CONSENSUS OF CURRENT KNOWLEDGE. *Ecological Monographs*, **2005**, 75, 3-35	9	4768
353	Biodiversity loss and its impact on humanity. *Nature*, **2012**, 486, 59-67	50.4	3613
352	Biodiversity and ecosystem functioning: current knowledge and future challenges. *Science*, **2001**, 294, 804-8	33.3	2942
351	Ecological linkages between aboveground and belowground biota. *Science*, **2004**, 304, 1629-33	33.3	2790
350	Trophic downgrading of planet Earth. *Science*, **2011**, 333, 301-6	33.3	2365
349	Impacts of biological invasions: what's what and the way forward. *Trends in Ecology and Evolution*, **2013**, 28, 58-66	10.9	1694
348	Plant species traits are the predominant control on litter decomposition rates within biomes worldwide. *Ecology Letters*, **2008**, 11, 1065-71	10	1605
347	Global change and species interactions in terrestrial ecosystems. *Ecology Letters*, **2008**, 11, 1351-63	10	1533
346	Spatial soil ecology. *Trends in Ecology and Evolution*, **2002**, 17, 177-183	10.9	935
345	The role of biotic interactions in shaping distributions and realised assemblages of species: implications for species distribution modelling. *Biological Reviews*, **2013**, 88, 15-30	13.5	931
344	Roots and associated fungi drive long-term carbon sequestration in boreal forest. *Science*, **2013**, 339, 1615-8	33.3	866
343	A COMPARATIVE ASSESSMENT OF FACTORS WHICH INFLUENCE MICROBIAL BIOMASS CARBON AND NITROGEN LEVELS IN SOIL. *Biological Reviews*, **1992**, 67, 321-358	13.5	845
342	Plant–soil feedbacks: the past, the present and future challenges. *Journal of Ecology*, **2013**, 101, 265-276	6	841
341	Ecosystem properties and forest decline in contrasting long-term chronosequences. *Science*, **2004**, 305, 509-13	33.3	765
340	HERBIVORE-MEDIATED LINKAGES BETWEEN ABOVEGROUND AND BELOWGROUND COMMUNITIES. *Ecology*, **2003**, 84, 2258-2268	4.6	710
339	The use of chronosequences in studies of ecological succession and soil development. *Journal of Ecology*, **2010**, 98, 725-736	6	687
338	Towards an assessment of multiple ecosystem processes and services via functional traits. *Biodiversity and Conservation*, **2010**, 19, 2873-2893	3.4	597

337	A critique of the microbial metabolic quotient (qCO2) as a bioindicator of disturbance and ecosystem development. *Soil Biology and Biochemistry*, **1995**, 27, 1601-1610	7.5	587
336	Linking above-ground and below-ground interactions: how plant responses to foliar herbivory influence soil organisms. *Soil Biology and Biochemistry*, **1998**, 30, 1867-1878	7.5	522
335	Understory vegetation as a forest ecosystem driver: evidence from the northern Swedish boreal forest. *Frontiers in Ecology and the Environment*, **2005**, 3, 421-428	5.5	519
334	The Influence of Island Area on Ecosystem Properties. *Science*, **1997**, 277, 1296-1299	33.3	494
333	Biodiversity and Plant Litter: Experimental Evidence Which Does Not Support the View That Enhanced Species Richness Improves Ecosystem Function. *Oikos*, **1997**, 79, 247	4	490
332	Interactions between Aboveground and Belowground Biodiversity in Terrestrial Ecosystems: Patterns, Mechanisms, and Feedbacks. *BioScience*, **2000**, 50, 1049	5.7	486
331	A global meta-analysis of the relative extent of intraspecific trait variation in plant communities. *Ecology Letters*, **2015**, 18, 1406-19	10	485
330	Identification of 100 fundamental ecological questions. *Journal of Ecology*, **2013**, 101, 58-67	6	445
329	Fire-derived charcoal causes loss of forest humus. *Science*, **2008**, 320, 629	33.3	431
328	The influence of biotic interactions on soil biodiversity. *Ecology Letters*, **2006**, 9, 870-86	10	423
327	PLANT REMOVALS IN PERENNIAL GRASSLAND: VEGETATION DYNAMICS, DECOMPOSERS, SOIL BIODIVERSITY, AND ECOSYSTEM PROPERTIES. *Ecological Monographs*, **1999**, 69, 535-568	9	357
326	Carbon sequestration is related to mycorrhizal fungal community shifts during long-term succession in boreal forests. *New Phytologist*, **2015**, 205, 1525-1536	9.8	339
325	Functional diversity revealed by removal experiments. *Trends in Ecology and Evolution*, **2003**, 18, 140-146	10.9	338
324	Community and Ecosystem Responses to Elevational Gradients: Processes, Mechanisms, and Insights for Global Change. *Annual Review of Ecology, Evolution, and Systematics*, **2013**, 44, 261-280	13.5	328
323	Terrestrial ecosystem responses to species gains and losses. *Science*, **2011**, 332, 1273-7	33.3	315
322	Soil nematode abundance and functional group composition at a global scale. *Nature*, **2019**, 572, 194-198	30.4	305
321	How understanding aboveground-belowground linkages can assist restoration ecology. *Trends in Ecology and Evolution*, **2010**, 25, 670-9	10.9	297
320	Key Ecological Function of Charcoal from Wildfire in the Boreal Forest. *Oikos*, **1996**, 77, 10	4	287

319	Long-term ecological dynamics: reciprocal insights from natural and anthropogenic gradients. *Proceedings of the Royal Society B: Biological Sciences*, **2005**, 272, 2105-15	4.4	281
318	Understanding ecosystem retrogression. *Ecological Monographs*, **2010**, 80, 509-529	9	280
317	Linking the influence and dependence of people on biodiversity across scales. *Nature*, **2017**, 546, 65-72	50.4	274
316	Linkages between plant litter decomposition, litter quality, and vegetation responses to herbivores. *Functional Ecology*, **2002**, 16, 585-595	5.6	273
315	Linking litter decomposition of above- and below-ground organs to plant–soil feedbacks worldwide. *Journal of Ecology*, **2013**, 101, 943-952	6	265
314	Microbial ecology of biological invasions. *ISME Journal*, **2007**, 1, 28-37	11.9	265
313	New indices for quantifying the resistance and resilience of soil biota to exogenous disturbances. *Soil Biology and Biochemistry*, **2004**, 36, 1907-1912	7.5	265
312	Is "Sampling Effect" a Problem for Experiments Investigating Biodiversity-Ecosystem Function Relationships?. *Oikos*, **1999**, 87, 403	4	255
311	Controls of temporal variability of the soil microbial biomass: A global-scale synthesis. *Soil Biology and Biochemistry*, **1998**, 30, 1627-1637	7.5	251
310	Above- and below-ground impacts of introduced predators in seabird-dominated island ecosystems. *Ecology Letters*, **2006**, 9, 1299-307	10	250
309	Impacts of Disturbance on Detritus Food Webs in Agro-Ecosystems of Contrasting Tillage and Weed Management Practices. *Advances in Ecological Research*, **1995**, 26, 105-185	4.6	248
308	Long-term effects of wildfire on ecosystem properties across an island area gradient. *Science*, **2003**, 300, 972-5	33.3	246
307	INTRODUCED BROWSING MAMMALS IN NEW ZEALAND NATURAL FORESTS: ABOVEGROUND AND BELOWGROUND CONSEQUENCES. *Ecological Monographs*, **2001**, 71, 587-614	9	243
306	The ecosystem and evolutionary contexts of allelopathy. *Trends in Ecology and Evolution*, **2011**, 26, 655-62	20.9	234
305	The charcoal effect in Boreal forests: mechanisms and ecological consequences. *Oecologia*, **1998**, 115, 419-426	2.9	228
304	The influence of plant litter diversity on decomposer abundance and diversity. *Soil Biology and Biochemistry*, **2006**, 38, 1052-1062	7.5	225
303	An ecosystem-level perspective of allelopathy. *Biological Reviews*, **1998**, 73, 305-319	13.5	221
302	Can comparative approaches based on plant ecophysiological traits predict the nature of biotic interactions and individual plant species effects in ecosystems?. *Journal of Ecology*, **1998**, 86, 405-420	6	217

301	Effects of species and functional group loss on island ecosystem properties. *Nature*, **2005**, 435, 806-10	50.4	215
300	Invasion Science: A Horizon Scan of Emerging Challenges and Opportunities. *Trends in Ecology and Evolution*, **2017**, 32, 464-474	10.9	207
299	Contrasting effects of plant inter- and intraspecific variation on community-level trait measures along an environmental gradient. *Functional Ecology*, **2013**, 27, 1254-1261	5.6	206
298	Context dependent effects of ectomycorrhizal species richness on tree seedling productivity. *Oikos* , **2001**, 93, 353-364	4	195
297	Empirical and theoretical challenges in aboveground-belowground ecology. *Oecologia*, **2009**, 161, 1-14	2.9	194
296	Plant-soil feedback and the maintenance of diversity in Mediterranean-climate shrublands. *Science*, **2017**, 355, 173-176	33.3	190
295	Experimental demonstration that plant diversity reduces invasibility □evidence of a biological mechanism or a consequence of sampling effect?. *Oikos*, **2001**, 95, 161-170	4	178
294	The way forward in biochar research: targeting trade-offs between the potential wins. *GCB Bioenergy*, **2015**, 7, 1-13	5.6	177
293	The dual importance of competition and predation as regulatory forces in terrestrial ecosystems: evidence from decomposer food-webs. *Oecologia*, **1993**, 93, 303-306	2.9	172
292	The response of a three trophic level soil food web to the identity and diversity of plant species and functional groups. *Oikos*, **2003**, 102, 45-56	4	156
291	Climate, soil and plant functional types as drivers of global fine-root trait variation. *Journal of Ecology*, **2017**, 105, 1182-1196	6	155
290	Determinants of litter mixing effects in a Swedish boreal forest. *Soil Biology and Biochemistry*, **2003**, 35, 827-835	7.5	155
289	Stability of ecosystem properties in response to above-ground functional group richness and composition. *Oikos*, **2000**, 89, 11-23	4	152
288	Linking vegetation change, carbon sequestration and biodiversity: insights from island ecosystems in a long-term natural experiment. *Journal of Ecology*, **2012**, 100, 16-30	6	151
287	The hare, the tortoise and the crocodile: the ecology of angiosperm dominance, conifer persistence and fern filtering. *Journal of Ecology*, **2005**, 93, 918-935	6	151
286	Changes in coexistence mechanisms along a long-term soil chronosequence revealed by functional trait diversity. *Journal of Ecology*, **2012**, 100, 678-689	6	149
285	Ecological consequences of carbon substrate identity and diversity in a laboratory study. *Ecology*, **2006**, 87, 580-93	4.6	147
284	Non-natives: 141 scientists object. *Nature*, **2011**, 475, 36	50.4	142

283	Litter quality and environmental controls of home-field advantage effects on litter decomposition. *Oikos*, **2015**, 124, 187-195	4	133
282	Changes in the Microbial Biomass and Metabolic Quotient During Leaf Litter Succession in Some New Zealand Forest and Scrubland Ecosystems. *Functional Ecology*, **1993**, 7, 346	5.6	133
281	How does pedogenesis drive plant diversity?. *Trends in Ecology and Evolution*, **2013**, 28, 331-40	10.9	130
280	Effects of Global Changes on Above- and Belowground Biodiversity in Terrestrial Ecosystems: Implications for Ecosystem Functioning. *BioScience*, **2000**, 50, 1089	5.7	130
279	Elevation alters ecosystem properties across temperate treelines globally. *Nature*, **2017**, 542, 91-95	50.4	126
278	The Overlooked Role of Facilitation in Biodiversity Experiments. *Trends in Ecology and Evolution*, **2017**, 32, 383-390	10.9	123
277	Plant communities as drivers of soil respiration: pathways, mechanisms, and significance for global change. *Biogeosciences*, **2011**, 8, 2047-2061	4.6	122
276	Effects of three herbicides on soil microbial biomass and activity. *Plant and Soil*, **1990**, 122, 21-28	4.2	122
275	The ratio of Gram-positive to Gram-negative bacterial PLFA markers as an indicator of carbon availability in organic soils. *Soil Biology and Biochemistry*, **2019**, 128, 111-114	7.5	122
274	Biodiversity in forest carbon sequestration initiatives: not just a side benefit. *Current Opinion in Environmental Sustainability*, **2009**, 1, 55-60	7.2	120
273	A test of the hierarchical model of litter decomposition. *Nature Ecology and Evolution*, **2017**, 1, 1836-1845	12.3	116
272	Punching above their weight: low-biomass non-native plant species alter soil properties during primary succession. *Oikos*, **2009**, 118, 1001-1014	4	116
271	Response of soil microbial biomass dynamics, activity and plant litter decomposition to agricultural intensification over a seven-year period. *Soil Biology and Biochemistry*, **1999**, 31, 1707-1720	7.5	115
270	Global distribution of earthworm diversity. *Science*, **2019**, 366, 480-485	33.3	113
269	The quest for a contemporary ecological dimension to soil biology. *Soil Biology and Biochemistry*, **1996**, 28, 1549-1554	7.5	111
268	Responses of soil nematode populations, community structure, diversity and temporal variability to agricultural intensification over a seven-year period. *Soil Biology and Biochemistry*, **1999**, 31, 1721-1733	7.5	110
267	The detritus food-web and the diversity of soil fauna as indicators of disturbance regimes in agro-ecosystems. *Plant and Soil*, **1995**, 170, 35-43	4.2	110
266	Effects of biological invasions on forest carbon sequestration. *Global Change Biology*, **2010**, 16, 732-746	11.4	108

265	How lichens impact on terrestrial community and ecosystem properties. *Biological Reviews*, **2017**, 92, 1720-1738	13.5	107
264	Changes in soil microbial and nematode communities during ecosystem decline across a long-term chronosequence. *Soil Biology and Biochemistry*, **2005**, 37, 1289-1301	7.5	104
263	Biological invasions in forest ecosystems. *Biological Invasions*, **2017**, 19, 3437-3458	2.7	103
262	Effects of Plant Species Diversity and Composition on Nitrogen Cycling and the Trace Gas Balance of Soils. *Plant and Soil*, **2006**, 282, 83-98	4.2	103
261	Effects of agricultural intensification on soil-associated arthropod population dynamics, community structure, diversity and temporal variability over a seven-year period. *Soil Biology and Biochemistry*, **1999**, 31, 1691-1706	7.5	103
260	Relationships between nematodes, soil microbial biomass and weed-management strategies in maize and asparagus cropping systems. *Soil Biology and Biochemistry*, **1993**, 25, 869-876	7.5	101
259	Global relationship of wood and leaf litter decomposability: the role of functional traits within and across plant organs. *Global Ecology and Biogeography*, **2014**, 23, 1046-1057	6.1	100
258	Climate change effects on plant-soil feedbacks and consequences for biodiversity and functioning of terrestrial ecosystems. *Science Advances*, **2019**, 5, eaaz1834	14.3	98
257	Do experiments exploring plant diversity-ecosystem functioning relationships inform how biodiversity loss impacts natural ecosystems?. *Journal of Vegetation Science*, **2016**, 27, 646-653	3.1	94
256	Synergistic Effects of Grassland Plant Spcies on Soil Microbial Biomass and Activity: Implications for Ecosystem-Level Effects of Enriched Plant Diversity. *Functional Ecology*, **1996**, 10, 410	5.6	94
255	Island biology and ecosystem functioning in epiphytic soil communities. *Science*, **2003**, 301, 1717-20	33.3	93
254	Ecology. Disentangling global soil fungal diversity. *Science*, **2014**, 346, 1052-3	33.3	89
253	Why is the strength of relationships between pairs of methods for estimating soil microbial biomass often so variable?. *Soil Biology and Biochemistry*, **1995**, 27, 821-828	7.5	88
252	Trophic relationships in the soil microfood-web: predicting the responses to a changing global environment. *Global Change Biology*, **1998**, 4, 713-727	11.4	86
251	On similarity among local communities in biodiversity experiments. *Oikos*, **2001**, 95, 340-348	4	85
250	Plant traits, leaf palatability and litter decomposability for co-occurring woody species differing in invasion status and nitrogen fixation ability. *Functional Ecology*, **2010**, 24, 513-523	5.6	84
249	Structural equation modelling reveals plant-community drivers of carbon storage in boreal forest ecosystems. *Biology Letters*, **2010**, 6, 116-9	3.6	84
248	Interactions between microclimatic variables and the soil microbial biomass. *Biology and Fertility of Soils*, **1990**, 9, 273-280	6.1	84

247	Predation of seabirds by invasive rats: multiple indirect consequences for invertebrate communities. *Oikos*, **2009**, 118, 420-430	4	83
246	Effects of defoliation intensity on soil food-web properties in an experimental grassland community. *Oikos*, **2001**, 92, 333-343	4	83
245	Effects of Plant Litter Species Composition and Diversity on the Boreal Forest Plant-Soil System. *Oikos*, **1999**, 86, 16	4	83
244	Interactions with soil biota shift from negative to positive when a tree species is moved outside its native range. *New Phytologist*, **2014**, 202, 415-421	9.8	81
243	How soil food webs make plants grow. *Trends in Ecology and Evolution*, **1999**, 14, 418-420	10.9	81
242	Ecosystem input of nitrogen through biological fixation in feather mosses during ecosystem retrogression. *Functional Ecology*, **2007**, 21, 1027-1033	5.6	80
241	Effects of alleviation of ecological stresses on an alpine tundra community over an eight-year period. *Oikos*, **2002**, 97, 3-17	4	80
240	The response of plant diversity to ecosystem retrogression: evidence from contrasting long-term chronosequences. *Oikos*, **2008**, 117, 93-103	4	77
239	Development of the Decomposer Food-Web, Trophic Relationships, and Ecosystem Properties during a Three-Year Primary Succession in Sawdust. *Oikos*, **1995**, 73, 155	4	77
238	Human-induced changes in large herbivorous mammal density: the consequences for decomposers. *Frontiers in Ecology and the Environment*, **2004**, 2, 145-153	5.5	73
237	The effect of reindeer grazing on decomposition, mineralization and soil biota in a dry oligotrophic Scots pine forest. *Oikos*, **2000**, 90, 301-310	4	73
236	Direct and indirect effects of rats: does rat eradication restore ecosystem functioning of New Zealand seabird islands?. *Biological Invasions*, **2009**, 11, 1671-1688	2.7	72
235	Changes in the community structure and diversity of soil invertebrates across the Franz Josef Glacier chronosequence. *Soil Biology and Biochemistry*, **2008**, 40, 1069-1081	7.5	72
234	Plant Species Composition Effects on Belowground Properties and the Resistance and Resilience of the Soil Microflora to a Drying Disturbance. *Plant and Soil*, **2005**, 278, 205-221	4.2	72
233	Differential facilitation by a nitrogen-fixing shrub during primary succession influences relative performance of canopy tree species. *Journal of Ecology*, **2001**, 89, 861-875	6	71
232	Interpretation of microbial biomass measurements for soil quality assessment in humid temperate regions. *Canadian Journal of Soil Science*, **1999**, 79, 507-520	1.4	69
231	Comparison of osmotic and allelopathic effects of grass leaf extracts on grass seed germination and radicle elongation. *Plant and Soil*, **1992**, 140, 315-319	4.2	69
230	Influence of the herbicide glyphosate on soil microbial community structure. *Plant and Soil*, **1990**, 122, 29-37	4.2	68

229	Reconstructing Disturbances and Their Biogeochemical Consequences over Multiple Timescales. *BioScience*, **2014**, 64, 105-116	5.7	66
228	Response of soil microbial biomass and plant litter decomposition to weed management strategies in maize and asparagus cropping systems. *Soil Biology and Biochemistry*, **1993**, 25, 857-868	7.5	66
227	Ozone affects plant, insect, and soil microbial communities: A threat to terrestrial ecosystems and biodiversity. *Science Advances*, **2020**, 6, eabc1176	14.3	66
226	Plant succession as an integrator of contrasting ecological time scales. *Trends in Ecology and Evolution*, **2014**, 29, 504-10	10.9	65
225	Consistent effects of biodiversity loss on multifunctionality across contrasting ecosystems. *Nature Ecology and Evolution*, **2018**, 2, 269-278	12.3	62
224	Boreal feather mosses secrete chemical signals to gain nitrogen. *New Phytologist*, **2013**, 200, 54-60	9.8	62
223	Interactive effects of vegetation type and elevation on aboveground and belowground properties in a subarctic tundra. *Oikos*, **2011**, 120, 128-142	4	62
222	Reduction in snow depth negatively affects decomposers but impact on decomposition rates is substrate dependent. *Soil Biology and Biochemistry*, **2013**, 62, 157-164	7.5	61
221	Composition and diversity of nifH genes of nitrogen-fixing cyanobacteria associated with boreal forest feather mosses. *New Phytologist*, **2011**, 192, 507-17	9.8	60
220	Among- and within-species variation in plant litter decomposition in contrasting long-term chronosequences. *Functional Ecology*, **2009**, 23, 442-453	5.6	60
219	Context dependency of litter-mixing effects on decomposition and nutrient release across a long-term chronosequence. *Oikos*, **2008**, 117, 1674-1682	4	60
218	Soil-mediated effects of invasive ungulates on native tree seedlings. *Journal of Ecology*, **2014**, 102, 622-631	5.6	59
217	Within- and across-species responses of plant traits and litter decomposition to elevation across contrasting vegetation types in subarctic tundra. *PLoS ONE*, **2011**, 6, e27056	3.7	59
216	Plant and microbial responses to nitrogen and phosphorus addition across an elevational gradient in subarctic tundra. *Ecology*, **2014**, 95, 1819-35	4.6	58
215	Linking aboveground and belowground communities: the indirect influence of aphid species identity and diversity on a three trophic level soil food web. *Oikos*, **2004**, 107, 283-294	4	58
214	Plasticity in above- and belowground resource acquisition traits in response to single and multiple environmental factors in three tree species. *Ecology and Evolution*, **2013**, 3, 1065-78	2.8	57
213	Context-dependent changes in the resistance and resilience of soil microbes to an experimental disturbance for three primary plant chronosequences. *Oikos*, **2006**, 112, 196-208	4	57
212	Environmental factors and traits that drive plant litter decomposition do not determine home-field advantage effects. *Functional Ecology*, **2015**, 29, 981-991	5.6	56

211	Interference effects of the invasive plantCarduus nutans L. against the nitrogen fixation ability ofTrifolium repens L.. *Plant and Soil*, **1994**, 163, 287-297	4.2	56
210	Long-term effects of species loss on community properties across contrasting ecosystems. *Nature*, **2018**, 557, 710-713	50.4	56
209	Impacts of invasive biota in forest ecosystems in an aboveground–belowground context. *Biological Invasions*, **2017**, 19, 3301-3316	2.7	55
208	Responses of communities of soil organisms and plants to soil aging at two contrasting long-term chronosequences. *Soil Biology and Biochemistry*, **2017**, 106, 69-79	7.5	55
207	Traits underpinning desiccation resistance explain distribution patterns of terrestrial isopods. *Oecologia*, **2013**, 172, 667-77	2.9	55
206	Patterns of invertebrate density and taxonomic richness across gradients of area, isolation, and vegetation diversity in a lake-island system. *Ecography*, **2009**, 32, 963-972	6.5	55
205	Microclimate within litter bags of different mesh size: Implications for the arthropod effect on litter decomposition. *Soil Biology and Biochemistry*, **2013**, 58, 147-152	7.5	54
204	Soil fertility shapes belowground food webs across a regional climate gradient. *Ecology Letters*, **2017**, 20, 1273-1284	10	54
203	Trickle-down effects of aboveground trophic cascades on the soil food web. *Oikos*, **2005**, 111, 348-358	4	54
202	Response of the soil microbial biomass to glucose, and selective inhibitors, across a soil moisture gradient. *Soil Biology and Biochemistry*, **1990**, 22, 825-834	7.5	54
201	Comparison of physiological techniques for estimating the response of the soil microbial biomass to soil moisture. *Soil Biology and Biochemistry*, **1990**, 22, 817-823	7.5	53
200	Plant–soil feedbacks of exotic plant species across life forms: a meta-analysis. *Biological Invasions*, **2014**, 16, 2551-2561	2.7	50
199	Decoupled long-term effects of nutrient enrichment on aboveground and belowground properties in subalpine tundra. *Ecology*, **2013**, 94, 904-919	4.6	50
198	Long-term aboveground and belowground consequences of red wood ant exclusion in boreal forest. *Ecology*, **2011**, 92, 645-56	4.6	49
197	Interspecific interactions and biomass allocation among grassland plant species. *Oikos*, **2003**, 100, 497-506	4	49
196	Response of soil food-web structure to defoliation of different plant species combinations in an experimental grassland community. *Soil Biology and Biochemistry*, **2001**, 33, 205-214	7.5	49
195	Response of feather moss associated N2 fixation and litter decomposition to variations in simulated rainfall intensity and frequency. *Oikos*, **2011**, 120, 570-581	4	48
194	Loss of a dominant nitrogen-fixing shrub in primary succession: consequences for plant and below-ground communities. *Journal of Ecology*, **2012**, 100, 1074-1084	6	47

193	Competition and Herbivory in Establishing Grassland Communities: Implications for Plant Biomass, Species Diversity and Soil Microbial Activity. *Oikos*, **1997**, 80, 470	4	47
192	The impact of secondary compounds and functional characteristics on lichen palatability and decomposition. *Journal of Ecology*, **2013**, 101, 689-700	6	46
191	Seasonal variation in nifH abundance and expression of cyanobacterial communities associated with boreal feather mosses. *ISME Journal*, **2016**, 10, 2198-208	11.9	45
190	A more reliable design for biodiversity study?. *Nature*, **1998**, 394, 30-30	50.4	45
189	Allelopathic potential of vegetative and flowering ragwort (Senecio jacobaea L.) plants against associated pasture species. *Plant and Soil*, **1994**, 164, 61-68	4.2	45
188	Stimulation of boreal tree seedling growth by wood-derived charcoal: effects of charcoal properties, seedling species and soil fertility. *Functional Ecology*, **2014**, 28, 766-775	5.6	44
187	Soil phosphorus and microbial response to a long-term wildfire chronosequence in northern Sweden. *Biogeochemistry*, **2009**, 95, 199-213	3.8	44
186	Influence of plant age on the allelopathic potential of nodding thistle (Carduus nutans L.) against pasture grasses and legumes. *Weed Research*, **1993**, 33, 69-78	1.9	44
185	Explaining within-community variation in plant biomass allocation: a balance between organ biomass and morphology above vs below ground?. *Journal of Vegetation Science*, **2015**, 26, 431-440	3.1	43
184	The effect of altered macroclimate on N-fixation by boreal feather mosses. *Biology Letters*, **2012**, 8, 805-8	3.6	43
183	Indirect effects of invasive predators on litter decomposition and nutrient resorption on seabird-dominated islands. *Ecology*, **2009**, 90, 452-64	4.6	43
182	Aboveground and belowground legacies of native Sami land use on boreal forest in northern Sweden 100 years after abandonment. *Ecology*, **2014**, 95, 963-77	4.6	42
181	Effect of fertilizer, herbicide and grazing management of pastures on plant and soil communities. *Applied Soil Ecology*, **2010**, 45, 175-186	5	42
180	A multitrophic perspective on biodiversity-ecosystem functioning research. *Advances in Ecological Research*, **2019**, 61, 1-54	4.6	41
179	Relative importance of the effect of 2,4-D, glyphosate, and environmental variables on the soil microbial biomass. *Plant and Soil*, **1991**, 134, 209-219	4.2	41
178	Effects of elevation and nitrogen and phosphorus fertilization on plant defence compounds in subarctic tundra heath vegetation. *Functional Ecology*, **2016**, 30, 314-325	5.6	40
177	Trophic interactions in a changing world: modelling aboveground–belowground interactions. *Basic and Applied Ecology*, **2004**, 5, 515-528	3.2	40
176	Impacts of ground vegetation management strategies in a kiwifruit orchard on the composition and functioning of the soil biota. *Soil Biology and Biochemistry*, **2001**, 33, 893-905	7.5	40

175	Understory plant functional groups and litter species identity are stronger drivers of litter decomposition than warming along a boreal forest post-fire successional gradient. *Soil Biology and Biochemistry*, **2016**, 98, 159-170	7.5	40
174	Context dependent effects of plant species and functional group loss on vegetation invasibility across an island area gradient. *Journal of Ecology*, **2008**, 96, 1174-1186	6	39
173	Bioavailable soil phosphorus decreases with increasing elevation in a subarctic tundra landscape. *PLoS ONE*, **2014**, 9, e92942	3.7	39
172	Contrasting Responses of Soil Microbial and Nematode Communities to Warming and Plant Functional Group Removal Across a Post-fire Boreal Forest Successional Gradient. *Ecosystems*, **2016** , 19, 339-355	3.9	38
171	Vascular plant removal effects on biological N fixation vary across a boreal forest island gradient. *Ecology*, **2010**, 91, 1704-14	4.6	38
170	Interspecific competitive interactions between pairs of fungal species in natural substrates. *Oecologia*, **1993**, 94, 165-172	2.9	37
169	Towards an integrative understanding of soil biodiversity. *Biological Reviews*, **2020**, 95, 350-364	13.5	37
168	Chemical properties of plant litter in response to elevation: subarctic vegetation challenges phenolic allocation theories. *Functional Ecology*, **2012**, 26, 1090-1099	5.6	36
167	Influence of the herbicides 2,4-D and glyphosate on soil microbial biomass and activity: A field experiment. *Soil Biology and Biochemistry*, **1992**, 24, 185-186	7.5	36
166	Rhizosphere control of soil nitrogen cycling: a key component of plant economic strategies. *New Phytologist*, **2020**, 228, 1269-1282	9.8	35
165	The within-species leaf economic spectrum does not predict leaf litter decomposability at either the within-species or whole community levels. *Journal of Ecology*, **2013**, 101, 1409-1419	6	35
164	Promotion of ecosystem carbon sequestration by invasive predators. *Biology Letters*, **2007**, 3, 479-82	3.6	35
163	Islands as model systems for understanding how species affect ecosystem properties. *Journal of Biogeography*, **2002**, 29, 583-591	4.1	35
162	Biodiversity and stability of grassland ecosystem functioning. *Oikos*, **2003**, 100, 622-623	4	35
161	Plant assemblages do not respond homogenously to local variation in environmental conditions: functional responses differ with species identity and abundance. *Journal of Vegetation Science*, **2015**, 26, 32-45	3.1	34
160	Resource heterogeneity does not explain the diversity-productivity relationship across a boreal island fertility gradient. *Ecography*, **2011**, 34, 887-896	6.5	34
159	The influence of the herbicide glyphosate on interspecific interactions between four soil fungal species. *Mycological Research*, **1992**, 96, 180-186		34
158	The effect of biochar management on soil and plant community properties in a boreal forest. *GCB Bioenergy*, **2016**, 8, 777-789	5.6	33

157	Microbe-plant competition, allelopathy and arctic plants. *Oecologia*, **1997**, 109, 291-293	2.9	33
156	Using Network Theory to Understand and Predict Biological Invasions. *Trends in Ecology and Evolution*, **2019**, 34, 831-843	10.9	32
155	Effects of plant functional group removal on structure and function of soil communities across contrasting ecosystems. *Ecology Letters*, **2019**, 22, 1095-1103	10	32
154	Differences in endophyte communities of introduced trees depend on the phylogenetic relatedness of the receiving forest. *Journal of Ecology*, **2016**, 104, 1219-1232	6	32
153	Comparison of plant-soil feedback experimental approaches for testing soil biotic interactions among ecosystems. *New Phytologist*, **2019**, 221, 577-587	9.8	32
152	Effect of ecosystem retrogression on stable nitrogen and carbon isotopes of plants, soils and consumer organisms in boreal forest islands. *Rapid Communications in Mass Spectrometry*, **2009**, 23, 1892-8	2.2	32
151	A statistical evaluation of equations for predicting total microbial biomass carbon using physiological and biochemical methods. *Agriculture, Ecosystems and Environment*, **1991**, 34, 75-86	5.7	31
150	Quantifying multimodal trait distributions improves trait-based predictions of species abundances and functional diversity. *Journal of Vegetation Science*, **2015**, 26, 46-57	3.1	30
149	Impact of understory mosses and dwarf shrubs on soil micro-arthropods in a boreal forest chronosequence. *Plant and Soil*, **2014**, 379, 121-133	4.2	30
148	The influence of freshwater-lake subsidies on invertebrates occupying terrestrial vegetation. *Acta Oecologica*, **2009**, 35, 698-704	1.7	30
147	Belowground and aboveground consequences of interactions between live plant species mixtures and dead organic substrate mixtures. *Oikos*, **2008**, 117, 439-449	4	30
146	Effects of shading and humus fertility on growth, competition, and ectomycorrhizal colonization of boreal forest tree seedlings. *Canadian Journal of Forest Research*, **2004**, 34, 2573-2586	1.9	30
145	Direct and Indirect Drivers of Moss Community Structure, Function, and Associated Microfauna Across a Successional Gradient. *Ecosystems*, **2015**, 18, 154-169	3.9	29
144	Decoupled responses of tree and shrub leaf and litter trait values to ecosystem retrogression across an island area gradient. *Plant and Soil*, **2013**, 367, 183-197	4.2	29
143	Are functional traits and litter decomposability coordinated across leaves, twigs and wood? A test using temperate rainforest tree species. *Oikos*, **2013**, 122, 1131-1142	4	29
142	The potential for forest canopy litterfall interception by a dense fern understorey, and the consequences for litter decomposition. *Oikos*, **2008**, 117, 83-92	4	29
141	No observational evidence for diversity enhancing productivity in Mediterranean shrublands. *Oecologia*, **2001**, 129, 620-621	2.9	29
140	Impacts of climate on the biodiversity-productivity relationship in natural forests. *Nature Communications*, **2018**, 9, 5436	17.4	29

139	Variation in home-field advantage and ability in leaf litter decomposition across successional gradients. *Functional Ecology*, **2018**, 32, 1563-1574	5.6	28
138	Long-term resilience of above- and below ground ecosystem components among contrasting ecosystems. *Ecology*, **2014**, 95, 1836-49	4.6	28
137	Use of a comparative approach to identify allelopathic potential and relationship between allelopathy bioassays and "competition" experiments for ten grassland and plant species. *Journal of Chemical Ecology*, **1996**, 22, 933-48	2.7	28
136	Strong invaders are strong defenders - implications for the resistance of invaded communities. *Ecology Letters*, **2016**, 19, 487-94	10	28
135	Browsing by an invasive herbivore promotes development of plant and soil communities during primary succession. *Journal of Ecology*, **2016**, 104, 1505-1517	6	27
134	Release of mineral nitrogen from plant root nodules. *Soil Biology and Biochemistry*, **1991**, 23, 827-832	7.5	27
133	Keystone Species: Competition for Honeydew Among Exotic and Indigenous Species **2006**, 281-294		26
132	The soil microbial community response when plants are subjected to water stress and defoliation disturbance. *Applied Soil Ecology*, **2007**, 37, 139-149	5	26
131	How plant communities influence decomposer communities **2005**, 119-138		26
130	Four priority areas to advance invasion science in the face of rapid environmental change. *Environmental Reviews*, **2021**, 29, 119-141	4.5	26
129	Towards a framework for understanding the context dependence of impacts of non-native tree species. *Functional Ecology*, **2020**, 34, 944-955	5.6	25
128	Linkage of plant trait space to successional age and species richness in boreal forest understorey vegetation. *Journal of Ecology*, **2015**, 103, 1610-1620	6	25
127	Nitrogen niches revealed through species and functional group removal in a boreal shrub community. *Ecology*, **2012**, 93, 1695-706	4.6	25
126	Within-species variability is the main driver of community-level responses of traits of epiphytes across a long-term chronosequence. *Functional Ecology*, **2014**, 28, 1513-1522	5.6	24
125	Ecological effects of the invasive weed species Senecio jacobaea L. (ragwort) in a New Zealand pasture. *Agriculture, Ecosystems and Environment*, **1995**, 56, 19-28	5.7	24
124	Soil handling methods should be selected based on research questions and goals. *New Phytologist*, **2017**, 216, 18-23	9.8	23
123	Aboveground and belowground effects of single-tree removals in New Zealand rain forest. *Ecology*, **2008**, 89, 1232-45	4.6	23
122	Nutritional Effects of Seed Fall during Mast Years in Boreal Forest. *Oikos*, **1999**, 84, 17	4	23

121	Influence of Pasture Forage Species on Seedling Emergence, Growth and Development of Carduus nutans. *Journal of Applied Ecology*, **1995**, 32, 225	5.8	23
120	Influence of pasture grass and legume swards on seedling emergence and growth of Carduus nutans L. and Cirsium vulgare L.. *Weed Research*, **1992**, 32, 119-128	1.9	23
119	Trophic cascades in the bryosphere: the impact of global change factors on top-down control of cyanobacterial N2 -fixation. *Ecology Letters*, **2016**, 19, 967-76	10	23
118	Coordinated responses of soil communities to elevation in three subarctic vegetation types. *Oikos*, **2017**, 126, 1586-1599	4	22
117	Micro-arthropod community responses to ecosystem retrogression in boreal forest. *Soil Biology and Biochemistry*, **2017**, 110, 79-86	7.5	22
116	A global database of soil nematode abundance and functional group composition. *Scientific Data*, **2020**, 7, 103	8.2	22
115	Biotic and abiotic plant–soil feedback depends on nitrogen-acquisition strategy and shifts during long-term ecosystem development. *Journal of Ecology*, **2019**, 107, 142-153	6	22
114	Direct and indirect effects of area, energy and habitat heterogeneity on breeding bird communities. *Journal of Biogeography*, **2011**, 38, 1186-1196	4.1	22
113	Changes in the ratio of twig to foliage in litterfall with species composition, and consequences for decomposition across a long term chronosequence. *Oikos*, **2006**, 115, 453-462	4	22
112	Linking above-ground and below-ground effects in autotrophic microcosms: effects of shading and defoliation on plant and soil properties. *Oikos*, **2000**, 89, 577-587	4	22
111	Fate of 14 C from glucose and the herbicide metsulfuron‐methyl in a plant–soil microcosm system. *Soil Biology and Biochemistry*, **2001**, 33, 777-785	7.5	22
110	Contrasting drivers of community-level trait variation for vascular plants, lichens and bryophytes across an elevational gradient. *Functional Ecology*, **2019**, 33, 2430-2446	5.6	21
109	Soil fertility and disturbance interact to drive contrasting responses of co-occurring native and nonnative species. *Ecology*, **2016**, 97, 515-29	4.6	21
108	Secondary compounds can reduce the soil micro-arthropod effect on lichen decomposition. *Soil Biology and Biochemistry*, **2013**, 66, 10-16	7.5	21
107	Plant growth response to direct and indirect temperature effects varies by vegetation type and elevation in a subarctic tundra. *Oikos*, **2015**, 124, 772-783	4	21
106	The Impact of Moss Species and Biomass on the Growth of Pinus sylvestris Tree Seedlings at Different Precipitation Frequencies. *Forests*, **2014**, 5, 1931-1951	2.8	21
105	An ecosystem-level perspective of allelopathy. *Biological Reviews*, **2007**, 73, 305-319	13.5	21
104	Gap size and regeneration in a New Zealand dairy pasture. *Austral Ecology*, **1992**, 17, 169-175	1.5	21

103	Nitrogen fixation rates associated with the feather mosses Pleurozium schreberi and Hylocomium splendens during forest stand development following clear-cutting. *Forest Ecology and Management*, **2015**, 347, 130-139	3.9	20
102	Changes in stable nitrogen and carbon isotope ratios of plants and soil across a boreal forest fire chronosequence. *Plant and Soil*, **2013**, 367, 111-119	4.2	20
101	Biodiversity effects in real ecosystems □a response to Duffy. *Frontiers in Ecology and the Environment*, **2010**, 8, 10-11	5.5	20
100	Influence of herbicide applications on the decomposition, microbial biomass, and microbial activity of pasture shoot and root litter. *New Zealand Journal of Agricultural Research*, **1994**, 37, 29-39	1.9	20
99	Lichen physiological traits and growth forms affect communities of associated invertebrates. *Ecology*, **2015**, 96, 2394-407	4.6	19
98	Ecosystem retrogression leads to increased insect abundance and herbivory across an island chronosequence. *Functional Ecology*, **2008**, 22, 816-823	5.6	19
97	Aboveground and belowground responses to quality and heterogeneity of organic inputs to the boreal forest. *Oecologia*, **2006**, 150, 108-18	2.9	19
96	The influence of soil age on ecosystem structure and function across biomes. *Nature Communications*, **2020**, 11, 4721	17.4	19
95	Bryophyte traits explain climate-warming effects on tree seedling establishment. *Journal of Ecology*, **2017**, 105, 496-506	6	18
94	Mortality in Individuals with Subjective Cognitive Decline: Results of the Leipzig Longitudinal Study of the Aged (LEILA75+). *Journal of Alzheimerls Disease*, **2015**, 48 Suppl 1, S33-42	4.3	18
93	Changes in stable nitrogen and carbon isotope ratios of plants and soil across a boreal forest fire chronosequence. *Plant and Soil*, **2013**, 364, 315-323	4.2	18
92	Relationships between fungal community composition in decomposing leaf litter and home-field advantage effects. *Functional Ecology*, **2019**, 33, 1524-1535	5.6	17
91	The effects of the moss layer on the decomposition of intercepted vascular plant litter across a post-fire boreal forest chronosequence. *Plant and Soil*, **2013**, 367, 199-214	4.2	17
90	Determining the impact of scale insect honeydew, and invasive wasps and rodents, on the decomposer subsystem in a New Zealand beech forest. *Biological Invasions*, **2010**, 12, 2619-2638	2.7	17
89	A tale of two theories, a chronosequence and a bioindicator of soil quality. *Soil Biology and Biochemistry*, **2018**, 121, A3-A7	7.5	16
88	The impact of charcoal and soil mixtures on decomposition and soil microbial communities in boreal forest. *Applied Soil Ecology*, **2016**, 99, 40-50	5	16
87	Contrasting nitrogen and phosphorus dynamics across an elevational gradient for subarctic tundra heath and meadow vegetation. *Plant and Soil*, **2014**, 383, 387-399	4.2	16
86	Nutrient fluxes from insect herbivory increase during ecosystem retrogression in boreal forest. *Ecology*, **2016**, 97, 124-32	4.6	15

85	Removal of secondary compounds increases invertebrate abundance in lichens. *Fungal Ecology*, **2015**, 18, 18-25	4.1	15
84	Response of photosynthetic carbon gain to ecosystem retrogression of vascular plants and mosses in the boreal forest. *Oecologia*, **2012**, 169, 661-72	2.9	15
83	Above-ground and below-ground responses to long-term nutrient addition across a retrogressive chronosequence. *Journal of Ecology*, **2016**, 104, 545-560	6	15
82	Invasive rodents have multiple indirect effects on seabird island invertebrate food web structure **2017**, 27, 1190-1198		14
81	Toward more robust plant-soil feedback research: Comment. *Ecology*, **2019**, 100, e02590	4.6	14
80	Coordination of aboveground and belowground responses to local-scale soil fertility differences between two contrasting Jamaican rain forest types. *Oikos*, **2015**, 124, 285-297	4	14
79	Rat invasion of islands alters fungal community structure, but not wood decomposition rates. *Oikos* , **2013**, 122, 258-264	4	14
78	Changes in local-scale intraspecific trait variability of dominant species across contrasting island ecosystems. *Ecosphere*, **2014**, 5, art26	3.1	14
77	Biodiversity, ecosystems and interactions that transcend the interface. *Trends in Ecology and Evolution*, **1999**, 14, 125-127	10.9	14
76	Statistical analyses of soil quality. *Science*, **1994**, 264, 281-2	33.3	14
75	INTRODUCED BROWSING MAMMALS IN NEW ZEALAND NATURAL FORESTS: ABOVEGROUND AND BELOWGROUND CONSEQUENCES **2001**, 71, 587		14
74	Landscape perception: linking physical monitoring data to perceived landscape properties. *Landscape Research*, **2020**, 45, 179-192	1.4	14
73	Biotic resistance in freshwater fish communities: species richness, saturation or species identity?. *Oikos*, **2015**, 124, 1058-1064	4	13
72	Drivers of inter-year variability of plant production and decomposers across contrasting island ecosystems. *Ecology*, **2012**, 93, 521-31	4.6	13
71	Variation in protein complexation capacity among and within six plant species across a boreal forest chronosequence. *Plant Ecology*, **2010**, 211, 253-266	1.7	13
70	Weighted species richness outperforms species richness as predictor of biotic resistance. *Ecology*, **2016**, 97, 262-71	4.6	12
69	Burrowing seabird effects on invertebrate communities in soil and litter are dominated by ecosystem engineering rather than nutrient addition. *Oecologia*, **2016**, 180, 217-30	2.9	12
68	Soil-mediated indirect impacts of an invasive predator on plant growth. *Biology Letters*, **2012**, 8, 574-7	3.6	12

67	PLANT REMOVALS IN PERENNIAL GRASSLAND: VEGETATION DYNAMICS, DECOMPOSERS, SOIL BIODIVERSITY, AND ECOSYSTEM PROPERTIES **1999**, 69, 535		12
66	Local plant adaptation across a subarctic elevational gradient. *Royal Society Open Science*, **2014**, 1, 140143	3.3	11
65	Analysis of co-occurrence in a fungal community. *Mycological Research*, **1991**, 95, 504-507		11
64	Lichen specific thallus mass and secondary compounds change across a retrogressive fire-driven chronosequence. *PLoS ONE*, **2012**, 7, e49081	3.7	11
63	Crown-fire severity is more important than ground-fire severity in determining soil fungal community development in the boreal forest. *Journal of Ecology*, **2021**, 109, 504-518	6	11
62	Soil Methane Sink Capacity Response to a Long-Term Wildfire Chronosequence in Northern Sweden. *PLoS ONE*, **2015**, 10, e0129892	3.7	10
61	Indirect Effects of Invertebrate Herbivory on the Decomposer Subsystem. *Ecological Studies*, **2008**, 53-69	1.1	10
60	Above and belowground community strategies respond to different global change drivers. *Scientific Reports*, **2019**, 9, 2540	4.9	10
59	Boreal Forests Sequester Large Amounts of Mercury over Millennial Time Scales in the Absence of Wildfire. *Environmental Science & Technology*, **2017**, 51, 2621-2627	10.3	9
58	A framework for understanding human-driven vegetation change. *Oikos*, **2017**, 126, 1687-1698	4	9
57	Degradation of Southeast Asian tropical peatlands and integrated strategies for their better management and restoration. *Journal of Applied Ecology*, **2021**, 58, 1370	5.8	9
56	Root trait-microbial relationships across tundra plant species. *New Phytologist*, **2021**, 229, 1508-1520	9.8	9
55	Contrasting changes in palatability following senescence of the lichenized fungi Lobaria pulmonaria and L. scrobiculata. *Fungal Ecology*, **2012**, 5, 710-713	4.1	8
54	Determination of bacterial and fungal fumigation □ factors across a soil moisture gradient. *Soil Biology and Biochemistry*, **1990**, 22, 811-816	7.5	8
53	The role of bryophytes for tree seedling responses to winter climate change: Implications for the stress gradient hypothesis. *Journal of Ecology*, **2018**, 106, 1142-1155	6	8
52	Disentangling Effects of Time Since Fire, Overstory Composition and Organic Layer Thickness on Nutrient Availability in Canadian Boreal Forest. *Ecosystems*, **2019**, 22, 33-48	3.9	7
51	The influence of tree-scale and ecosystem-scale factors on epiphytic lichen communities across a long-term retrogressive chronosequence. *Journal of Vegetation Science*, **2014**, 25, 1100-1111	3.1	7
50	The effect of simulated herbivory on growth and nutrient status of focal and neighbouring early successional woody plant species. *Oikos*, **2011**, 120, 1380-1392	4	7

49	Relative intra-species competitive ability of nodding thistle biotypes with varying resistance to the herbicide 2,4-D. *New Zealand Journal of Agricultural Research*, **1998**, 41, 291-297	1.9	7
48	Allelopathy in the New Zealand grassland/pasture ecosystem. *New Zealand Journal of Crop and Horticultural Science*, **1987**, 15, 243-255		7
47	Aboveground-Belowground Linkages, Ecosystem Development, and Ecosystem Restoration **2007**, 45-68		7
46	Seabirds as agents of spatial heterogeneity on New Zealand offshore islands. *Plant and Soil*, **2014**, 383, 139-153	4.2	6
45	Snow fungi as a food source for micro-arthropods. *European Journal of Soil Biology*, **2014**, 60, 77-80	2.9	6
44	Do 'Faculty of 1000' (F1000) ratings of ecological publications serve as reasonable predictors of their future impact?. *Ideas in Ecology and Evolution*, **2010**,	1	6
43	Shifts in Aboveground Biomass Allocation Patterns of Dominant Shrub Species across a Strong Environmental Gradient. *PLoS ONE*, **2016**, 11, e0157136	3.7	6
42	Changes in functional traits of the terricolous lichen Peltigera aphthosa across a retrogressive boreal forest chronosequence. *Lichenologist*, **2015**, 47, 187-195	1.1	5
41	Influence of species identity and charring conditions on fire-derived charcoal traits. *Canadian Journal of Forest Research*, **2015**, 45, 1669-1675	1.9	5
40	Holocene land uplift and its influence on fire history and ecosystem development in boreal Sweden. *Journal of Vegetation Science*, **2004**, 15, 171-180	3.1	5
39	Free lunch?. *Nature*, **1991**, 352, 482-482	50.4	5
38	Understory vegetation as a forest ecosystem driver: evidence from the northern Swedish boreal forest **2005**, 3, 421		5
37	Home-field advantage of litter decomposition: from the phyllosphere to the soil. *New Phytologist*, **2021**, 231, 1353-1358	9.8	5
36	Soil fertility effects on tree seedling performance are light-dependent: evidence from a long-term soil chronosequence. *Oikos*, **2016**, 125, 1121-1133	4	5
35	Contrasting responses of springtails and mites to elevation and vegetation type in the sub-Arctic. *Pedobiologia*, **2018**, 67, 57-64	1.7	4
34	Seedling responses to changes in canopy and soil properties during stand development following clear-cutting. *Forest Ecology and Management*, **2016**, 378, 31-43	3.9	4
33	The interactive effects of surface-burn severity and canopy cover on conifer and broadleaf tree seedling ecophysiology. *Canadian Journal of Forest Research*, **2014**, 44, 1032-1041	1.9	4
32	Global distribution of earthworm diversity		4

31	Mosses modify effects of warmer and wetter conditions on tree seedlings at the alpine treeline. *Global Change Biology*, **2020**, 26, 5754-5766	11.4	4
30	Effects of plant functional group removal on CO fluxes and belowground C stocks across contrasting ecosystems. *Ecology*, **2020**, 101, e03170	4.6	4
29	Global data on earthworm abundance, biomass, diversity and corresponding environmental properties. *Scientific Data*, **2021**, 8, 136	8.2	4
28	Divergent responses of diversity among organism groups to a strong environmental gradient. *Ecosphere*, **2016**, 7, e01535	3.1	4
27	Hidden Effects: the Belowground Consequences of Introduced Browsing Mammals in New Zealand Forests **2006**, 307-322		4
26	Invasion Science: Looking Forward Rather Than Revisiting Old Ground - A Reply to Zenni et al. *Trends in Ecology and Evolution*, **2017**, 32, 809-810	10.9	3
25	On plummeting manuscript acceptance rates by the main ecological journals and the progress of ecology. *Ideas in Ecology and Evolution*, **2012**,	1	3
24	Biochar increases tree biomass in a managed boreal forest, but does not alter N2O, CH4, and CO2 emissions. *GCB Bioenergy*, **2021**, 13, 1329-1342	5.6	3
23	Soil biotic and abiotic effects on seedling growth exhibit context-dependent interactions: evidence from a multi-country experiment on Pinus contorta invasion. *New Phytologist*, **2021**, 232, 303-317	9.8	3
22	Impact of plant functional group and species removals on soil and plant nitrogen and phosphorus across a retrogressive chronosequence. *Journal of Ecology*, **2020**, 108, 561-573	6	3
21	Responses of tundra plant community carbon flux to experimental warming, dominant species removal and elevation. *Functional Ecology*, **2020**, 34, 1497-1506	5.6	3
20	Contrasting responses of plant and lichen carbon-based secondary compounds across an elevational gradient. *Functional Ecology*, **2021**, 35, 330-341	5.6	3
19	Holocene land uplift and its influence on fire history and ecosystem development in boreal Sweden **2004**, 15, 171		2
18	Interactions between establishing nodding thistle and pasture seedlings. *New Zealand Plant Protection*,43, 225-228	1	2
17	Aboveground and Belowground Consequences of Long-Term Forest Retrogression in the Timeframe of Millennia and Beyond. *Ecological Studies*, **2009**, 193-209	1.1	2
16	Changes in stable nitrogen isotopes of plants, bulk soil and soil dissolved N during ecosystem retrogression in boreal forest. *Ecological Research*, **2021**, 36, 420-429	1.9	2
15	Decomposability of lichens and bryophytes from across an elevational gradient under standardized conditions. *Oikos*, **2020**, 129, 1358-1368	4	1
14	Conservation: listen to more voices. *Nature*, **2014**, 516, 37	50.4	1

13	Ecology by numbers. *Trends in Ecology and Evolution*, **2002**, 17, 533-534	10.9	1
12	The benefits of being stressed. *Trends in Ecology and Evolution*, **2001**, 16, 604	10.9	1
11	Suppression of Ozone Formation at High Temperature in China: From Historical Observations to Future Projections. *Geophysical Research Letters*,	4.9	1
10	Precipitation regime controls bryosphere carbon cycling similarly across contrasting ecosystems. *Oikos*, **2021**, 130, 512-524	4	1
9	Effects of Soil Abiotic and Biotic Factors on Tree Seedling Regeneration Following a Boreal Forest Wildfire. *Ecosystems*,1	3.9	1
8	Relevance of Interactions amongst Soil Microorganisms to Soil Biological Fertility **2007**, 187-201		1
7	Plant-microbial linkages underpin carbon sequestration in contrasting mountain tundra vegetation types. *Soil Biology and Biochemistry*, **2022**, 165, 108530	7.5	0
6	Climate and multiple dimensions of plant diversity regulate ecosystem carbon exchange along an elevational gradient. *Ecosphere*, **2021**, 12, e03472	3.1	0
5	Urbanization minimizes the effects of plant traits on soil provisioned ecosystem services across climatic regions. *Global Change Biology*, **2021**, 27, 4139-4153	11.4	0
4	Soil phosphorus forms show only minor changes across a 5000-year-old boreal wildfire chronosequence. *Biogeochemistry*,1	3.8	0
3	Bryosphere Loss Impairs Litter Decomposition Consistently Across Moss Species, Litter Types, and Micro-Arthropod Abundance. *Ecosystems*,1	3.9	0
2	Resolution of respect for Gregor William Yeates, 1944–2012. *Pedobiologia*, **2012**, 55, 283-284	1.7	
1	Ecosystem Rates of Transformation Matter--Response. *Science*, **2011**, 333, 937-937	33.3	