

David A Wardle

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Plant-microbial linkages underpin carbon sequestration in contrasting mountain tundra vegetation types. <i>Soil Biology and Biochemistry</i> , 2022 , 165, 108530	7.5	0
353	Climate and multiple dimensions of plant diversity regulate ecosystem carbon exchange along an elevational gradient. <i>Ecosphere</i> , 2021 , 12, e03472	3.1	0
352	Degradation of Southeast Asian tropical peatlands and integrated strategies for their better management and restoration. <i>Journal of Applied Ecology</i> , 2021 , 58, 1370	5.8	9
351	Global data on earthworm abundance, biomass, diversity and corresponding environmental properties. <i>Scientific Data</i> , 2021 , 8, 136	8.2	4
350	Biochar increases tree biomass in a managed boreal forest, but does not alter N ₂ O, CH ₄ , and CO ₂ emissions. <i>GCB Bioenergy</i> , 2021 , 13, 1329-1342	5.6	3
349	Four priority areas to advance invasion science in the face of rapid environmental change. <i>Environmental Reviews</i> , 2021 , 29, 119-141	4.5	26
348	Urbanization minimizes the effects of plant traits on soil provisioned ecosystem services across climatic regions. <i>Global Change Biology</i> , 2021 , 27, 4139-4153	11.4	0
347	Soil biotic and abiotic effects on seedling growth exhibit context-dependent interactions: evidence from a multi-country experiment on <i>Pinus contorta</i> invasion. <i>New Phytologist</i> , 2021 , 232, 303-317	9.8	3
346	Home-field advantage of litter decomposition: from the phyllosphere to the soil. <i>New Phytologist</i> , 2021 , 231, 1353-1358	9.8	5
345	Root trait-microbial relationships across tundra plant species. <i>New Phytologist</i> , 2021 , 229, 1508-1520	9.8	9
344	Crown-fire severity is more important than ground-fire severity in determining soil fungal community development in the boreal forest. <i>Journal of Ecology</i> , 2021 , 109, 504-518	6	11
343	Contrasting responses of plant and lichen carbon-based secondary compounds across an elevational gradient. <i>Functional Ecology</i> , 2021 , 35, 330-341	5.6	3
342	Precipitation regime controls bryosphere carbon cycling similarly across contrasting ecosystems. <i>Oikos</i> , 2021 , 130, 512-524	4	1
341	Changes in stable nitrogen isotopes of plants, bulk soil and soil dissolved N during ecosystem retrogression in boreal forest. <i>Ecological Research</i> , 2021 , 36, 420-429	1.9	2
340	Decomposability of lichens and bryophytes from across an elevational gradient under standardized conditions. <i>Oikos</i> , 2020 , 129, 1358-1368	4	1
339	Rhizosphere control of soil nitrogen cycling: a key component of plant economic strategies. <i>New Phytologist</i> , 2020 , 228, 1269-1282	9.8	35
338	A global database of soil nematode abundance and functional group composition. <i>Scientific Data</i> , 2020 , 7, 103	8.2	22

337	Towards a framework for understanding the context dependence of impacts of non-native tree species. <i>Functional Ecology</i> , 2020 , 34, 944-955	5.6	25
336	Towards an integrative understanding of soil biodiversity. <i>Biological Reviews</i> , 2020 , 95, 350-364	13.5	37
335	Mosses modify effects of warmer and wetter conditions on tree seedlings at the alpine treeline. <i>Global Change Biology</i> , 2020 , 26, 5754-5766	11.4	4
334	Ozone affects plant, insect, and soil microbial communities: A threat to terrestrial ecosystems and biodiversity. <i>Science Advances</i> , 2020 , 6, eabc1176	14.3	66
333	Effects of plant functional group removal on CO fluxes and belowground C stocks across contrasting ecosystems. <i>Ecology</i> , 2020 , 101, e03170	4.6	4
332	The influence of soil age on ecosystem structure and function across biomes. <i>Nature Communications</i> , 2020 , 11, 4721	17.4	19
331	Landscape perception: linking physical monitoring data to perceived landscape properties. <i>Landscape Research</i> , 2020 , 45, 179-192	1.4	14
330	Impact of plant functional group and species removals on soil and plant nitrogen and phosphorus across a retrogressive chronosequence. <i>Journal of Ecology</i> , 2020 , 108, 561-573	6	3
329	Responses of tundra plant community carbon flux to experimental warming, dominant species removal and elevation. <i>Functional Ecology</i> , 2020 , 34, 1497-1506	5.6	3
328	Contrasting drivers of community-level trait variation for vascular plants, lichens and bryophytes across an elevational gradient. <i>Functional Ecology</i> , 2019 , 33, 2430-2446	5.6	21
327	Global distribution of earthworm diversity. <i>Science</i> , 2019 , 366, 480-485	33.3	113
326	Using Network Theory to Understand and Predict Biological Invasions. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 831-843	10.9	32
325	Relationships between fungal community composition in decomposing leaf litter and home-field advantage effects. <i>Functional Ecology</i> , 2019 , 33, 1524-1535	5.6	17
324	Effects of plant functional group removal on structure and function of soil communities across contrasting ecosystems. <i>Ecology Letters</i> , 2019 , 22, 1095-1103	10	32
323	Toward more robust plant-soil feedback research: Comment. <i>Ecology</i> , 2019 , 100, e02590	4.6	14
322	Comparison of plant-soil feedback experimental approaches for testing soil biotic interactions among ecosystems. <i>New Phytologist</i> , 2019 , 221, 577-587	9.8	32
321	Biotic and abiotic plant-soil feedback depends on nitrogen-acquisition strategy and shifts during long-term ecosystem development. <i>Journal of Ecology</i> , 2019 , 107, 142-153	6	22
320	Disentangling Effects of Time Since Fire, Overstory Composition and Organic Layer Thickness on Nutrient Availability in Canadian Boreal Forest. <i>Ecosystems</i> , 2019 , 22, 33-48	3.9	7

319	A multitrophic perspective on biodiversity-ecosystem functioning research. <i>Advances in Ecological Research</i> , 2019 , 61, 1-54	4.6	41
318	Soil nematode abundance and functional group composition at a global scale. <i>Nature</i> , 2019 , 572, 194-198	50.4	305
317	Above and belowground community strategies respond to different global change drivers. <i>Scientific Reports</i> , 2019 , 9, 2540	4.9	10
316	Climate change effects on plant-soil feedbacks and consequences for biodiversity and functioning of terrestrial ecosystems. <i>Science Advances</i> , 2019 , 5, eaaz1834	14.3	98
315	The ratio of Gram-positive to Gram-negative bacterial PLFA markers as an indicator of carbon availability in organic soils. <i>Soil Biology and Biochemistry</i> , 2019 , 128, 111-114	7.5	122
314	Contrasting responses of springtails and mites to elevation and vegetation type in the sub-Arctic. <i>Pedobiologia</i> , 2018 , 67, 57-64	1.7	4
313	Variation in home-field advantage and ability in leaf litter decomposition across successional gradients. <i>Functional Ecology</i> , 2018 , 32, 1563-1574	5.6	28
312	A tale of two theories, a chronosequence and a bioindicator of soil quality. <i>Soil Biology and Biochemistry</i> , 2018 , 121, A3-A7	7.5	16
311	Consistent effects of biodiversity loss on multifunctionality across contrasting ecosystems. <i>Nature Ecology and Evolution</i> , 2018 , 2, 269-278	12.3	62
310	The role of bryophytes for tree seedling responses to winter climate change: Implications for the stress gradient hypothesis. <i>Journal of Ecology</i> , 2018 , 106, 1142-1155	6	8
309	Impacts of climate on the biodiversity-productivity relationship in natural forests. <i>Nature Communications</i> , 2018 , 9, 5436	17.4	29
308	Long-term effects of species loss on community properties across contrasting ecosystems. <i>Nature</i> , 2018 , 557, 710-713	50.4	56
307	Plant-soil feedback and the maintenance of diversity in Mediterranean-climate shrublands. <i>Science</i> , 2017 , 355, 173-176	33.3	190
306	Elevation alters ecosystem properties across temperate treelines globally. <i>Nature</i> , 2017 , 542, 91-95	50.4	126
305	The Overlooked Role of Facilitation in Biodiversity Experiments. <i>Trends in Ecology and Evolution</i> , 2017 , 32, 383-390	10.9	123
304	Boreal Forests Sequester Large Amounts of Mercury over Millennial Time Scales in the Absence of Wildfire. <i>Environmental Science & Technology</i> , 2017 , 51, 2621-2627	10.3	9
303	Invasive rodents have multiple indirect effects on seabird island invertebrate food web structure		14
302	Climate, soil and plant functional types as drivers of global fine-root trait variation. <i>Journal of Ecology</i> , 2017 , 105, 1182-1196	6	155

301	Impacts of invasive biota in forest ecosystems in an abovegroundBelowground context. <i>Biological Invasions</i> , 2017 , 19, 3301-3316	2.7	55
300	Coordinated responses of soil communities to elevation in three subarctic vegetation types. <i>Oikos</i> , 2017 , 126, 1586-1599	4	22
299	Linking the influence and dependence of people on biodiversity across scales. <i>Nature</i> , 2017 , 546, 65-72	50.4	274
298	Micro-arthropod community responses to ecosystem retrogression in boreal forest. <i>Soil Biology and Biochemistry</i> , 2017 , 110, 79-86	7.5	22
297	Invasion Science: A Horizon Scan of Emerging Challenges and Opportunities. <i>Trends in Ecology and Evolution</i> , 2017 , 32, 464-474	10.9	207
296	Responses of communities of soil organisms and plants to soil aging at two contrasting long-term chronosequences. <i>Soil Biology and Biochemistry</i> , 2017 , 106, 69-79	7.5	55
295	Invasion Science: Looking Forward Rather Than Revisiting Old Ground - A Reply to Zenni et al. <i>Trends in Ecology and Evolution</i> , 2017 , 32, 809-810	10.9	3
294	Soil fertility shapes belowground food webs across a regional climate gradient. <i>Ecology Letters</i> , 2017 , 20, 1273-1284	10	54
293	Biological invasions in forest ecosystems. <i>Biological Invasions</i> , 2017 , 19, 3437-3458	2.7	103
292	A framework for understanding human-driven vegetation change. <i>Oikos</i> , 2017 , 126, 1687-1698	4	9
291	Soil handling methods should be selected based on research questions and goals. <i>New Phytologist</i> , 2017 , 216, 18-23	9.8	23
290	A test of the hierarchical model of litter decomposition. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1836-1845	52.3	116
289	Bryophyte traits explain climate-warming effects on tree seedling establishment. <i>Journal of Ecology</i> , 2017 , 105, 496-506	6	18
288	How lichens impact on terrestrial community and ecosystem properties. <i>Biological Reviews</i> , 2017 , 92, 1720-1738	13.5	107
287	Weighted species richness outperforms species richness as predictor of biotic resistance. <i>Ecology</i> , 2016 , 97, 262-71	4.6	12
286	Nutrient fluxes from insect herbivory increase during ecosystem retrogression in boreal forest. <i>Ecology</i> , 2016 , 97, 124-32	4.6	15
285	Differences in endophyte communities of introduced trees depend on the phylogenetic relatedness of the receiving forest. <i>Journal of Ecology</i> , 2016 , 104, 1219-1232	6	32
284	Browsing by an invasive herbivore promotes development of plant and soil communities during primary succession. <i>Journal of Ecology</i> , 2016 , 104, 1505-1517	6	27

283	Seedling responses to changes in canopy and soil properties during stand development following clear-cutting. <i>Forest Ecology and Management</i> , 2016 , 378, 31-43	3.9	4
282	Effects of elevation and nitrogen and phosphorus fertilization on plant defence compounds in subarctic tundra heath vegetation. <i>Functional Ecology</i> , 2016 , 30, 314-325	5.6	40
281	Do experiments exploring plant diversity-ecosystem functioning relationships inform how biodiversity loss impacts natural ecosystems?. <i>Journal of Vegetation Science</i> , 2016 , 27, 646-653	3.1	94
280	The impact of charcoal and soil mixtures on decomposition and soil microbial communities in boreal forest. <i>Applied Soil Ecology</i> , 2016 , 99, 40-50	5	16
279	Seasonal variation in nifH abundance and expression of cyanobacterial communities associated with boreal feather mosses. <i>ISME Journal</i> , 2016 , 10, 2198-208	11.9	45
278	Contrasting Responses of Soil Microbial and Nematode Communities to Warming and Plant Functional Group Removal Across a Post-fire Boreal Forest Successional Gradient. <i>Ecosystems</i> , 2016 , 19, 339-355	3.9	38
277	Soil fertility and disturbance interact to drive contrasting responses of co-occurring native and nonnative species. <i>Ecology</i> , 2016 , 97, 515-29	4.6	21
276	Burrowing seabird effects on invertebrate communities in soil and litter are dominated by ecosystem engineering rather than nutrient addition. <i>Oecologia</i> , 2016 , 180, 217-30	2.9	12
275	The effect of biochar management on soil and plant community properties in a boreal forest. <i>GCB Bioenergy</i> , 2016 , 8, 777-789	5.6	33
274	Shifts in Aboveground Biomass Allocation Patterns of Dominant Shrub Species across a Strong Environmental Gradient. <i>PLoS ONE</i> , 2016 , 11, e0157136	3.7	6
273	Trophic cascades in the bryosphere: the impact of global change factors on top-down control of cyanobacterial N ₂ -fixation. <i>Ecology Letters</i> , 2016 , 19, 967-76	10	23
272	Above-ground and below-ground responses to long-term nutrient addition across a retrogressive chronosequence. <i>Journal of Ecology</i> , 2016 , 104, 545-560	6	15
271	Soil fertility effects on tree seedling performance are light-dependent: evidence from a long-term soil chronosequence. <i>Oikos</i> , 2016 , 125, 1121-1133	4	5
270	Strong invaders are strong defenders - implications for the resistance of invaded communities. <i>Ecology Letters</i> , 2016 , 19, 487-94	10	28
269	Divergent responses of Diversity among organism groups to a strong environmental gradient. <i>Ecosphere</i> , 2016 , 7, e01535	3.1	4
268	Understory plant functional groups and litter species identity are stronger drivers of litter decomposition than warming along a boreal forest post-fire successional gradient. <i>Soil Biology and Biochemistry</i> , 2016 , 98, 159-170	7.5	40
267	Environmental factors and traits that drive plant litter decomposition do not determine home-field advantage effects. <i>Functional Ecology</i> , 2015 , 29, 981-991	5.6	56
266	Changes in functional traits of the terricolous lichen <i>Peltigera aphthosa</i> across a retrogressive boreal forest chronosequence. <i>Lichenologist</i> , 2015 , 47, 187-195	1.1	5

265	Nitrogen fixation rates associated with the feather mosses <i>Pleurozium schreberi</i> and <i>Hylocomium splendens</i> during forest stand development following clear-cutting. <i>Forest Ecology and Management</i> , 2015 , 347, 130-139	3.9	20
264	Direct and Indirect Drivers of Moss Community Structure, Function, and Associated Microfauna Across a Successional Gradient. <i>Ecosystems</i> , 2015 , 18, 154-169	3.9	29
263	Lichen physiological traits and growth forms affect communities of associated invertebrates. <i>Ecology</i> , 2015 , 96, 2394-407	4.6	19
262	Removal of secondary compounds increases invertebrate abundance in lichens. <i>Fungal Ecology</i> , 2015 , 18, 18-25	4.1	15
261	Carbon sequestration is related to mycorrhizal fungal community shifts during long-term succession in boreal forests. <i>New Phytologist</i> , 2015 , 205, 1525-1536	9.8	339
260	Quantifying multimodal trait distributions improves trait-based predictions of species abundances and functional diversity. <i>Journal of Vegetation Science</i> , 2015 , 26, 46-57	3.1	30
259	Coordination of aboveground and belowground responses to local-scale soil fertility differences between two contrasting Jamaican rain forest types. <i>Oikos</i> , 2015 , 124, 285-297	4	14
258	Plant assemblages do not respond homogenously to local variation in environmental conditions: functional responses differ with species identity and abundance. <i>Journal of Vegetation Science</i> , 2015 , 26, 32-45	3.1	34
257	The way forward in biochar research: targeting trade-offs between the potential wins. <i>GCB Bioenergy</i> , 2015 , 7, 1-13	5.6	177
256	Litter quality and environmental controls of home-field advantage effects on litter decomposition. <i>Oikos</i> , 2015 , 124, 187-195	4	133
255	Linkage of plant trait space to successional age and species richness in boreal forest understorey vegetation. <i>Journal of Ecology</i> , 2015 , 103, 1610-1620	6	25
254	A global meta-analysis of the relative extent of intraspecific trait variation in plant communities. <i>Ecology Letters</i> , 2015 , 18, 1406-19	10	485
253	Mortality in Individuals with Subjective Cognitive Decline: Results of the Leipzig Longitudinal Study of the Aged (LEILA75+). <i>Journal of Alzheimer's Disease</i> , 2015 , 48 Suppl 1, S33-42	4.3	18
252	Soil Methane Sink Capacity Response to a Long-Term Wildfire Chronosequence in Northern Sweden. <i>PLoS ONE</i> , 2015 , 10, e0129892	3.7	10
251	Biotic resistance in freshwater fish communities: species richness, saturation or species identity?. <i>Oikos</i> , 2015 , 124, 1058-1064	4	13
250	Influence of species identity and charring conditions on fire-derived charcoal traits. <i>Canadian Journal of Forest Research</i> , 2015 , 45, 1669-1675	1.9	5
249	Plant growth response to direct and indirect temperature effects varies by vegetation type and elevation in a subarctic tundra. <i>Oikos</i> , 2015 , 124, 772-783	4	21
248	Explaining within-community variation in plant biomass allocation: a balance between organ biomass and morphology above vs below ground?. <i>Journal of Vegetation Science</i> , 2015 , 26, 431-440	3.1	43

247	Impact of understory mosses and dwarf shrubs on soil micro-arthropods in a boreal forest chronosequence. <i>Plant and Soil</i> , 2014 , 379, 121-133	4.2	30
246	Within-species variability is the main driver of community-level responses of traits of epiphytes across a long-term chronosequence. <i>Functional Ecology</i> , 2014 , 28, 1513-1522	5.6	24
245	Stimulation of boreal tree seedling growth by wood-derived charcoal: effects of charcoal properties, seedling species and soil fertility. <i>Functional Ecology</i> , 2014 , 28, 766-775	5.6	44
244	Interactions with soil biota shift from negative to positive when a tree species is moved outside its native range. <i>New Phytologist</i> , 2014 , 202, 415-421	9.8	81
243	Long-term resilience of above- and below ground ecosystem components among contrasting ecosystems. <i>Ecology</i> , 2014 , 95, 1836-49	4.6	28
242	Plant succession as an integrator of contrasting ecological time scales. <i>Trends in Ecology and Evolution</i> , 2014 , 29, 504-10	10.9	65
241	The influence of tree-scale and ecosystem-scale factors on epiphytic lichen communities across a long-term retrogressive chronosequence. <i>Journal of Vegetation Science</i> , 2014 , 25, 1100-1111	3.1	7
240	Global relationship of wood and leaf litter decomposability: the role of functional traits within and across plant organs. <i>Global Ecology and Biogeography</i> , 2014 , 23, 1046-1057	6.1	100
239	Plant-soil feedbacks of exotic plant species across life forms: a meta-analysis. <i>Biological Invasions</i> , 2014 , 16, 2551-2561	2.7	50
238	Seabirds as agents of spatial heterogeneity on New Zealand's offshore islands. <i>Plant and Soil</i> , 2014 , 383, 139-153	4.2	6
237	Plant and microbial responses to nitrogen and phosphorus addition across an elevational gradient in subarctic tundra. <i>Ecology</i> , 2014 , 95, 1819-35	4.6	58
236	Local plant adaptation across a subarctic elevational gradient. <i>Royal Society Open Science</i> , 2014 , 1, 140143	5.3	11
235	The Impact of Moss Species and Biomass on the Growth of <i>Pinus sylvestris</i> Tree Seedlings at Different Precipitation Frequencies. <i>Forests</i> , 2014 , 5, 1931-1951	2.8	21
234	Contrasting nitrogen and phosphorus dynamics across an elevational gradient for subarctic tundra heath and meadow vegetation. <i>Plant and Soil</i> , 2014 , 383, 387-399	4.2	16
233	The interactive effects of surface-burn severity and canopy cover on conifer and broadleaf tree seedling ecophysiology. <i>Canadian Journal of Forest Research</i> , 2014 , 44, 1032-1041	1.9	4
232	Conservation: listen to more voices. <i>Nature</i> , 2014 , 516, 37	50.4	1
231	Soil-mediated effects of invasive ungulates on native tree seedlings. <i>Journal of Ecology</i> , 2014 , 102, 622-631	6.1	59
230	Ecology. Disentangling global soil fungal diversity. <i>Science</i> , 2014 , 346, 1052-3	33.3	89

229	Changes in local-scale intraspecific trait variability of dominant species across contrasting island ecosystems. <i>Ecosphere</i> , 2014 , 5, art26	3.1	14
228	Aboveground and belowground legacies of native Sami land use on boreal forest in northern Sweden 100 years after abandonment. <i>Ecology</i> , 2014 , 95, 963-77	4.6	42
227	Snow fungi as a food source for micro-arthropods. <i>European Journal of Soil Biology</i> , 2014 , 60, 77-80	2.9	6
226	Reconstructing Disturbances and Their Biogeochemical Consequences over Multiple Timescales. <i>BioScience</i> , 2014 , 64, 105-116	5.7	66
225	Bioavailable soil phosphorus decreases with increasing elevation in a subarctic tundra landscape. <i>PLoS ONE</i> , 2014 , 9, e92942	3.7	39
224	Rat invasion of islands alters fungal community structure, but not wood decomposition rates. <i>Oikos</i> , 2013 , 122, 258-264	4	14
223	Changes in stable nitrogen and carbon isotope ratios of plants and soil across a boreal forest fire chronosequence. <i>Plant and Soil</i> , 2013 , 367, 111-119	4.2	20
222	Decoupled responses of tree and shrub leaf and litter trait values to ecosystem retrogression across an island area gradient. <i>Plant and Soil</i> , 2013 , 367, 183-197	4.2	29
221	The effects of the moss layer on the decomposition of intercepted vascular plant litter across a post-fire boreal forest chronosequence. <i>Plant and Soil</i> , 2013 , 367, 199-214	4.2	17
220	Boreal feather mosses secrete chemical signals to gain nitrogen. <i>New Phytologist</i> , 2013 , 200, 54-60	9.8	62
219	Traits underpinning desiccation resistance explain distribution patterns of terrestrial isopods. <i>Oecologia</i> , 2013 , 172, 667-77	2.9	55
218	Community and Ecosystem Responses to Elevational Gradients: Processes, Mechanisms, and Insights for Global Change. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2013 , 44, 261-280	13.5	328
217	Impacts of biological invasions: what's what and the way forward. <i>Trends in Ecology and Evolution</i> , 2013 , 28, 58-66	10.9	1694
216	Are functional traits and litter decomposability coordinated across leaves, twigs and wood? A test using temperate rainforest tree species. <i>Oikos</i> , 2013 , 122, 1131-1142	4	29
215	Secondary compounds can reduce the soil micro-arthropod effect on lichen decomposition. <i>Soil Biology and Biochemistry</i> , 2013 , 66, 10-16	7.5	21
214	Identification of 100 fundamental ecological questions. <i>Journal of Ecology</i> , 2013 , 101, 58-67	6	445
213	Microclimate within litter bags of different mesh size: Implications for the Arthropod effect on litter decomposition. <i>Soil Biology and Biochemistry</i> , 2013 , 58, 147-152	7.5	54
212	Changes in stable nitrogen and carbon isotope ratios of plants and soil across a boreal forest fire chronosequence. <i>Plant and Soil</i> , 2013 , 364, 315-323	4.2	18

211	Reduction in snow depth negatively affects decomposers but impact on decomposition rates is substrate dependent. <i>Soil Biology and Biochemistry</i> , 2013 , 62, 157-164	7.5	61
210	How does pedogenesis drive plant diversity?. <i>Trends in Ecology and Evolution</i> , 2013 , 28, 331-40	10.9	130
209	The impact of secondary compounds and functional characteristics on lichen palatability and decomposition. <i>Journal of Ecology</i> , 2013 , 101, 689-700	6	46
208	Plant-soil feedbacks: the past, the present and future challenges. <i>Journal of Ecology</i> , 2013 , 101, 265-276	6	841
207	Roots and associated fungi drive long-term carbon sequestration in boreal forest. <i>Science</i> , 2013 , 339, 1615-8	33.3	866
206	Decoupled long-term effects of nutrient enrichment on aboveground and belowground properties in subalpine tundra. <i>Ecology</i> , 2013 , 94, 904-919	4.6	50
205	Contrasting effects of plant inter- and intraspecific variation on community-level trait measures along an environmental gradient. <i>Functional Ecology</i> , 2013 , 27, 1254-1261	5.6	206
204	Linking litter decomposition of above- and below-ground organs to plant-soil feedbacks worldwide. <i>Journal of Ecology</i> , 2013 , 101, 943-952	6	265
203	The role of biotic interactions in shaping distributions and realised assemblages of species: implications for species distribution modelling. <i>Biological Reviews</i> , 2013 , 88, 15-30	13.5	931
202	The within-species leaf economic spectrum does not predict leaf litter decomposability at either the within-species or whole community levels. <i>Journal of Ecology</i> , 2013 , 101, 1409-1419	6	35
201	Plasticity in above- and belowground resource acquisition traits in response to single and multiple environmental factors in three tree species. <i>Ecology and Evolution</i> , 2013 , 3, 1065-78	2.8	57
200	Chemical properties of plant litter in response to elevation: subarctic vegetation challenges phenolic allocation theories. <i>Functional Ecology</i> , 2012 , 26, 1090-1099	5.6	36
199	Changes in coexistence mechanisms along a long-term soil chronosequence revealed by functional trait diversity. <i>Journal of Ecology</i> , 2012 , 100, 678-689	6	149
198	Loss of a dominant nitrogen-fixing shrub in primary succession: consequences for plant and below-ground communities. <i>Journal of Ecology</i> , 2012 , 100, 1074-1084	6	47
197	Contrasting changes in palatability following senescence of the lichenized fungi <i>Lobaria pulmonaria</i> and <i>L. scrobiculata</i> . <i>Fungal Ecology</i> , 2012 , 5, 710-713	4.1	8
196	Resolution of respect for Gregor William Yeates, 1944-2012. <i>Pedobiologia</i> , 2012 , 55, 283-284	1.7	
195	Nitrogen niches revealed through species and functional group removal in a boreal shrub community. <i>Ecology</i> , 2012 , 93, 1695-706	4.6	25
194	On plummeting manuscript acceptance rates by the main ecological journals and the progress of ecology. <i>Ideas in Ecology and Evolution</i> , 2012 ,	1	3

193	Biodiversity loss and its impact on humanity. <i>Nature</i> , 2012 , 486, 59-67	50.4	3613
192	Response of photosynthetic carbon gain to ecosystem retrogression of vascular plants and mosses in the boreal forest. <i>Oecologia</i> , 2012 , 169, 661-72	2.9	15
191	Linking vegetation change, carbon sequestration and biodiversity: insights from island ecosystems in a long-term natural experiment. <i>Journal of Ecology</i> , 2012 , 100, 16-30	6	151
190	Drivers of inter-year variability of plant production and decomposers across contrasting island ecosystems. <i>Ecology</i> , 2012 , 93, 521-31	4.6	13
189	The effect of altered macroclimate on N-fixation by boreal feather mosses. <i>Biology Letters</i> , 2012 , 8, 805-8	3.6	43
188	Soil-mediated indirect impacts of an invasive predator on plant growth. <i>Biology Letters</i> , 2012 , 8, 574-7	3.6	12
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185	Long-term aboveground and belowground consequences of red wood ant exclusion in boreal forest. <i>Ecology</i> , 2011 , 92, 645-56	4.6	49
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183	The ecosystem and evolutionary contexts of allelopathy. <i>Trends in Ecology and Evolution</i> , 2011 , 26, 655-62	20.9	234
182	Plant communities as drivers of soil respiration: pathways, mechanisms, and significance for global change. <i>Biogeosciences</i> , 2011 , 8, 2047-2061	4.6	122
181	Direct and indirect effects of area, energy and habitat heterogeneity on breeding bird communities. <i>Journal of Biogeography</i> , 2011 , 38, 1186-1196	4.1	22
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179	Resource heterogeneity does not explain the diversity-productivity relationship across a boreal island fertility gradient. <i>Ecography</i> , 2011 , 34, 887-896	6.5	34
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176	The effect of simulated herbivory on growth and nutrient status of focal and neighbouring early successional woody plant species. <i>Oikos</i> , 2011 , 120, 1380-1392	4	7

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165	Biodiversity effects in real ecosystems in response to Duffy. <i>Frontiers in Ecology and the Environment</i> , 2010 , 8, 10-11	5.5	20
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162	Towards an assessment of multiple ecosystem processes and services via functional traits. <i>Biodiversity and Conservation</i> , 2010 , 19, 2873-2893	3.4	597
161	Variation in protein complexation capacity among and within six plant species across a boreal forest chronosequence. <i>Plant Ecology</i> , 2010 , 211, 253-266	1.7	13
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158	Direct and indirect effects of rats: does rat eradication restore ecosystem functioning of New Zealand seabird islands?. <i>Biological Invasions</i> , 2009 , 11, 1671-1688	2.7	72

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154	Predation of seabirds by invasive rats: multiple indirect consequences for invertebrate communities. <i>Oikos</i> , 2009 , 118, 420-430	4	83
153	Punching above their weight: low-biomass non-native plant species alter soil properties during primary succession. <i>Oikos</i> , 2009 , 118, 1001-1014	4	116
152	Patterns of invertebrate density and taxonomic richness across gradients of area, isolation, and vegetation diversity in a lake-island system. <i>Ecography</i> , 2009 , 32, 963-972	6.5	55
151	Biodiversity in forest carbon sequestration initiatives: not just a side benefit. <i>Current Opinion in Environmental Sustainability</i> , 2009 , 1, 55-60	7.2	120
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137	Context dependency of litter-mixing effects on decomposition and nutrient release across a long-term chronosequence. <i>Oikos</i> , 2008 , 117, 1674-1682	4	60
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18	Free lunch?. <i>Nature</i> , 1991 , 352, 482-482	50.4	5
17	Relative importance of the effect of 2,4-D, glyphosate, and environmental variables on the soil microbial biomass. <i>Plant and Soil</i> , 1991 , 134, 209-219	4.2	41
16	A statistical evaluation of equations for predicting total microbial biomass carbon using physiological and biochemical methods. <i>Agriculture, Ecosystems and Environment</i> , 1991 , 34, 75-86	5.7	31
15	Release of mineral nitrogen from plant root nodules. <i>Soil Biology and Biochemistry</i> , 1991 , 23, 827-832	7.5	27
14	Analysis of co-occurrence in a fungal community. <i>Mycological Research</i> , 1991 , 95, 504-507		11

13	Effects of three herbicides on soil microbial biomass and activity. <i>Plant and Soil</i> , 1990 , 122, 21-28	4.2	122
12	Influence of the herbicide glyphosate on soil microbial community structure. <i>Plant and Soil</i> , 1990 , 122, 29-37	4.2	68
11	Interactions between microclimatic variables and the soil microbial biomass. <i>Biology and Fertility of Soils</i> , 1990 , 9, 273-280	6.1	84
10	Determination of bacterial and fungal fumigation \bar{D} factors across a soil moisture gradient. <i>Soil Biology and Biochemistry</i> , 1990 , 22, 811-816	7.5	8
9	Comparison of physiological techniques for estimating the response of the soil microbial biomass to soil moisture. <i>Soil Biology and Biochemistry</i> , 1990 , 22, 817-823	7.5	53
8	Response of the soil microbial biomass to glucose, and selective inhibitors, across a soil moisture gradient. <i>Soil Biology and Biochemistry</i> , 1990 , 22, 825-834	7.5	54
7	Allelopathy in the New Zealand grassland/pasture ecosystem. <i>New Zealand Journal of Crop and Horticultural Science</i> , 1987 , 15, 243-255		7
6	Suppression of Ozone Formation at High Temperature in China: From Historical Observations to Future Projections. <i>Geophysical Research Letters</i> ,	4.9	1
5	Interactions between establishing nodding thistle and pasture seedlings. <i>New Zealand Plant Protection</i> , 43, 225-228	1	2
4	Global distribution of earthworm diversity		4
3	Effects of Soil Abiotic and Biotic Factors on Tree Seedling Regeneration Following a Boreal Forest Wildfire. <i>Ecosystems</i> , 1	3.9	1
2	Soil phosphorus forms show only minor changes across a 5000-year-old boreal wildfire chronosequence. <i>Biogeochemistry</i> , 1	3.8	0
1	Bryosphere Loss Impairs Litter Decomposition Consistently Across Moss Species, Litter Types, and Micro-Arthropod Abundance. <i>Ecosystems</i> , 1	3.9	0