

# Han Y H Chen

## List of Publications by Citations

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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.

381  
papers

13,691  
citations

61  
h-index

99  
g-index

414  
ext. papers

17,417  
ext. citations

5.4  
avg, IF

7.28  
L-index

#	Paper	IF	Citations
381	Positive biodiversity-productivity relationship predominant in global forests. <i>Science</i> , <b>2016</b> , 354,	33.3	593
380	Forest productivity increases with evenness, species richness and trait variation: a global meta-analysis. <i>Journal of Ecology</i> , <b>2012</b> , 100, 742-749	6	457
379	Fine Root Biomass, Production, Turnover Rates, and Nutrient Contents in Boreal Forest Ecosystems in Relation to Species, Climate, Fertility, and Stand Age: Literature Review and Meta-Analyses. <i>Critical Reviews in Plant Sciences</i> , <b>2010</b> , 29, 204-221	5.6	293
378	Dynamics of North American boreal mixedwoods. <i>Environmental Reviews</i> , <b>2002</b> , 10, 137-166	4.5	270
377	Understory Vegetation Dynamics of North American Boreal Forests. <i>Critical Reviews in Plant Sciences</i> , <b>2006</b> , 25, 381-397	5.6	251
376	Decoupling of nitrogen and phosphorus in terrestrial plants associated with global changes. <i>Nature Climate Change</i> , <b>2015</b> , 5, 465-469	21.4	213
375	Global negative effects of nitrogen deposition on soil microbes. <i>ISME Journal</i> , <b>2018</b> , 12, 1817-1825	11.9	213
374	Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. <i>Nature</i> , <b>2019</b> , 569, 404-408	50.4	203
373	Global-scale patterns of nutrient resorption associated with latitude, temperature and precipitation. <i>Global Ecology and Biogeography</i> , <b>2009</b> , 18, 11-18	6.1	175
372	Global trends in senesced-leaf nitrogen and phosphorus. <i>Global Ecology and Biogeography</i> , <b>2009</b> , 18, 532-542	6.1	175
371	FIRE, LOGGING, AND OVERSTORY AFFECT UNDERSTORY ABUNDANCE, DIVERSITY, AND COMPOSITION IN BOREAL FOREST. <i>Ecological Monographs</i> , <b>2008</b> , 78, 123-140	9	173
370	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. <i>Environmental Research Letters</i> , <b>2016</b> , 11, 034014	6.2	165
369	Biodiversity and ecosystem functioning relations in European forests depend on environmental context. <i>Ecology Letters</i> , <b>2017</b> , 20, 1414-1426	10	149
368	Is understory plant species diversity driven by resource quantity or resource heterogeneity?. <i>Ecology</i> , <b>2010</b> , 91, 1931-8	4.6	147
367	Global-scale latitudinal patterns of plant fine-root nitrogen and phosphorus. <i>Nature Communications</i> , <b>2011</b> , 2, 344	17.4	145
366	A novel comparative research platform designed to determine the functional significance of tree species diversity in European forests. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , <b>2013</b> , 15, 281-291	3	143
365	Negative effects of fertilization on plant nutrient resorption. <i>Ecology</i> , <b>2015</b> , 96, 373-80	4.6	142

364	Tree species diversity increases fine root productivity through increased soil volume filling. <i>Journal of Ecology</i> , <b>2013</b> , 101, 210-219	6	137
363	Biotic homogenization can decrease landscape-scale forest multifunctionality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 3557-62	11.5	134
362	Differences in fine root productivity between mixed- and single-species stands. <i>Functional Ecology</i> , <b>2011</b> , 25, 238-246	5.6	133
361	Stand Structural Dynamics of North American Boreal Forests. <i>Critical Reviews in Plant Sciences</i> , <b>2006</b> , 25, 115-137	5.6	131
360	Individual size inequality links forest diversity and above-ground biomass. <i>Journal of Ecology</i> , <b>2015</b> , 103, 1245-1252	6	125
359	Effects of light on growth, crown architecture, and specific leaf area for naturally established <i>Pinus contorta</i> var. <i>latifolia</i> and <i>Pseudotsugamenziesii</i> var. <i>glauca</i> saplings. <i>Canadian Journal of Forest Research</i> , <b>1996</b> , 26, 1149-1157	1.9	121
358	Jack-of-all-trades effects drive biodiversity-ecosystem multifunctionality relationships in European forests. <i>Nature Communications</i> , <b>2016</b> , 7, 11109	17.4	120
357	Estimation of future precipitation change in the Yangtze River basin by using statistical downscaling method. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2011</b> , 25, 781-792	3.5	118
356	Patterns and Mechanisms of Nutrient Resorption in Plants. <i>Critical Reviews in Plant Sciences</i> , <b>2015</b> , 34, 471-486	5.6	116
355	Influence of Environmental Variability on Root Dynamics in Northern Forests. <i>Critical Reviews in Plant Sciences</i> , <b>2009</b> , 28, 179-197	5.6	116
354	How Forest Management affects Ecosystem Services, including Timber Production and Economic Return: Synergies and Trade-Offs. <i>Ecology and Society</i> , <b>2012</b> , 17,	4.1	113
353	A comparative study of landslide susceptibility maps using logistic regression, frequency ratio, decision tree, weights of evidence and artificial neural network. <i>Geosciences Journal</i> , <b>2016</b> , 20, 117-136	1.4	111
352	Effects of natural resource development on the terrestrial biodiversity of Canadian boreal forests. <i>Environmental Reviews</i> , <b>2014</b> , 22, 457-490	4.5	108
351	Changes in nutrient concentrations of leaves and roots in response to global change factors. <i>Global Change Biology</i> , <b>2017</b> , 23, 3849-3856	11.4	106
350	Microbes drive global soil nitrogen mineralization and availability. <i>Global Change Biology</i> , <b>2019</b> , 25, 1078-1088	11.4	103
349	A global analysis of fine root production as affected by soil nitrogen and phosphorus. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 279, 3796-802	4.4	99
348	Multiple successional pathways of boreal forest stands in central Canada. <i>Ecography</i> , <b>2011</b> , 34, 208-219	6.5	94
347	Effects of thinning and soil properties on accumulation of carbon, nitrogen and phosphorus in the forest floor of Norway spruce stands. <i>Forest Ecology and Management</i> , <b>1995</b> , 77, 1-10	3.9	94

346	Importance of mixedwoods for biodiversity conservation: Evidence for understory plants, songbirds, soil fauna, and ectomycorrhizae in northern forests. <i>Environmental Reviews</i> , <b>2011</b> , 19, 142-164	4.5	93
345	Trends in post-disturbance recovery rates of Canada's forests following wildfire and harvest. <i>Forest Ecology and Management</i> , <b>2016</b> , 361, 194-207	3.9	92
344	Plant invasion is associated with higher plant-soil nutrient concentrations in nutrient-poor environments. <i>Global Change Biology</i> , <b>2017</b> , 23, 1282-1291	11.4	91
343	Meta-analysis shows positive effects of plant diversity on microbial biomass and respiration. <i>Nature Communications</i> , <b>2019</b> , 10, 1332	17.4	89
342	Net aboveground biomass declines of four major forest types with forest ageing and climate change in western Canada's boreal forests. <i>Global Change Biology</i> , <b>2015</b> , 21, 3675-84	11.4	89
341	Trembling aspen site index in relation to environmental measures of site quality at two spatial scales. <i>Canadian Journal of Forest Research</i> , <b>2002</b> , 32, 112-119	1.9	89
340	Effects of species diversity on fine root productivity in diverse ecosystems: a global meta-analysis. <i>Global Ecology and Biogeography</i> , <b>2016</b> , 25, 1387-1396	6.1	87
339	Interspecific responses of planted seedlings to light availability in interior British Columbia: survival, growth, allometric patterns, and specific leaf area. <i>Canadian Journal of Forest Research</i> , <b>1997</b> , 27, 1383-1393	1.9	85
338	Intrinsic and Extrinsic Controls of Fine Root Life Span. <i>Critical Reviews in Plant Sciences</i> , <b>2013</b> , 32, 151-163	3.6	83
337	Competition and facilitation between tree species change with stand development. <i>Oikos</i> , <b>2011</b> , 120, 1683-1695	4	81
336	Biodiversity as a solution to mitigate climate change impacts on the functioning of forest ecosystems. <i>Biological Reviews</i> , <b>2018</b> , 93, 439-456	13.5	80
335	Is Tree Species Diversity or Species Identity the More Important Driver of Soil Carbon Stocks, C/N Ratio, and pH?. <i>Ecosystems</i> , <b>2016</b> , 19, 645-660	3.9	80
334	Observations from old forests underestimate climate change effects on tree mortality. <i>Nature Communications</i> , <b>2013</b> , 4, 1655	17.4	78
333	Spatiotemporal Variations of Fire Frequency in Central Boreal Forest. <i>Ecosystems</i> , <b>2010</b> , 13, 1227-1238	3.9	78
332	Competition, species interaction and ageing control tree mortality in boreal forests. <i>Journal of Ecology</i> , <b>2011</b> , 99, 1470-1480	6	76
331	Positive species diversity and above-ground biomass relationships are ubiquitous across forest strata despite interference from overstorey trees. <i>Functional Ecology</i> , <b>2017</b> , 31, 419-426	5.6	74
330	Boreal mixedwood stand dynamics: ecological processes underlying multiple pathways. <i>Forestry Chronicle</i> , <b>2014</b> , 90, 202-213	1	72
329	Interactions between overstorey and understory vegetation along an overstorey compositional gradient. <i>Journal of Vegetation Science</i> , <b>2013</b> , 24, 543-552	3.1	72

328	Stand structural diversity rather than species diversity enhances aboveground carbon storage in secondary subtropical forests in Eastern China. <i>Biogeosciences</i> , <b>2016</b> , 13, 4627-4635	4.6	72
327	Tree species diversity affects decomposition through modified micro-environmental conditions across European forests. <i>New Phytologist</i> , <b>2017</b> , 214, 1281-1293	9.8	71
326	The effect of boreal forest composition on soil respiration is mediated through variations in soil temperature and C quality. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 53, 18-27	7.5	67
325	Fine root dynamics with stand development in the boreal forest. <i>Functional Ecology</i> , <b>2012</b> , 26, 991-998	5.6	64
324	Detection of trends in precipitation during 1960-2008 in Jiangxi province, southeast China. <i>Theoretical and Applied Climatology</i> , <b>2013</b> , 114, 237-251	3	64
323	Effects of time since stand-replacing fire and overstory composition on live-tree structural diversity in the boreal forest of central Canada. <i>Canadian Journal of Forest Research</i> , <b>2008</b> , 38, 52-62	1.9	64
322	Site index, site quality, and foliar nutrients of trembling aspen: relationships and predictions. <i>Canadian Journal of Forest Research</i> , <b>1998</b> , 28, 1743-1755	1.9	63
321	Climate change-associated trends in net biomass change are age dependent in western boreal forests of Canada. <i>Ecology Letters</i> , <b>2016</b> , 19, 1150-8	10	63
320	Climate change-associated tree mortality increases without decreasing water availability. <i>Ecology Letters</i> , <b>2015</b> , 18, 1207-1215	10	60
319	Global changes alter plant multi-element stoichiometric coupling. <i>New Phytologist</i> , <b>2019</b> , 221, 807-817	9.8	60
318	Plant defense against fungal pathogens by antagonistic fungi with Trichoderma in focus. <i>Microbial Pathogenesis</i> , <b>2019</b> , 129, 7-18	3.8	59
317	Soil C:N:P dynamics during secondary succession following fire in the boreal forest of central Canada. <i>Forest Ecology and Management</i> , <b>2016</b> , 369, 1-9	3.9	59
316	Response of Six Boreal Tree Species to Stand Replacing Fire and Clearcutting. <i>Ecosystems</i> , <b>2009</b> , 12, 820-829	3.9	57
315	Water scaling of ecosystem carbon cycle feedback to climate warming. <i>Science Advances</i> , <b>2019</b> , 5, eaav11213	11.3	56
314	Carbon storage in a chronosequence of red spruce ( <i>Picea rubens</i> ) forests in central Nova Scotia, Canada. <i>Canadian Journal of Forest Research</i> , <b>2007</b> , 37, 2260-2269	1.9	56
313	Stand age, fire and clearcutting affect soil organic carbon and aggregation of mineral soils in boreal forests. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 50, 149-157	7.5	55
312	Wildfire promotes broadleaves and species mixture in boreal forest. <i>Forest Ecology and Management</i> , <b>2009</b> , 257, 343-350	3.9	55
311	Effects of Forest Type and Disturbance on Diversity of Coarse Woody Debris in Boreal Forest. <i>Ecosystems</i> , <b>2008</b> , 11, 1078-1090	3.9	55

310	Soil microbial functional diversity and biomass as affected by different thinning intensities in a Chinese fir plantation. <i>Applied Soil Ecology</i> , <b>2015</b> , 92, 35-44	5	54
309	Soil labile organic carbon and carbon-cycle enzyme activities under different thinning intensities in Chinese fir plantations. <i>Applied Soil Ecology</i> , <b>2016</b> , 107, 162-169	5	54
308	Stability of Soil Carbon Stocks Varies with Forest Composition in the Canadian Boreal Biome. <i>Ecosystems</i> , <b>2013</b> , 16, 852-865	3.9	54
307	Are mixed-species stands more productive than single-species stands: an empirical test of three forest types in British Columbia and Alberta. <i>Canadian Journal of Forest Research</i> , <b>2003</b> , 33, 1227-1237	1.9	54
306	Are functional traits a good predictor of global change impacts on tree species abundance dynamics in a subtropical forest?. <i>Ecology Letters</i> , <b>2015</b> , 18, 1181-1189	10	53
305	Temporal changes in soil C-N-P stoichiometry over the past 60 years across subtropical China. <i>Global Change Biology</i> , <b>2018</b> , 24, 1308-1320	11.4	51
304	Comparative effects of sulfuric and nitric acid rain on litter decomposition and soil microbial community in subtropical plantation of Yangtze River Delta region. <i>Science of the Total Environment</i> , <b>2017</b> , 601-602, 669-678	10.2	51
303	Effects of land use change on the composition of soil microbial communities in a managed subtropical forest. <i>Forest Ecology and Management</i> , <b>2016</b> , 373, 93-99	3.9	51
302	Carbon dynamics of North American boreal forest after stand replacing wildfire and clearcut logging. <i>Journal of Forest Research</i> , <b>2011</b> , 16, 168-183	1.4	50
301	Spatial and temporal variations in rainfall erosivity during 1960-2005 in the Yangtze River basin. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2013</b> , 27, 337-351	3.5	49
300	Linking resource availability and heterogeneity to understorey species diversity through succession in boreal forest of Canada. <i>Journal of Ecology</i> , <b>2018</b> , 106, 1266-1276	6	48
299	Canopy gap disturbance and succession in trembling aspen dominated boreal forests in northeastern Ontario. <i>Canadian Journal of Forest Research</i> , <b>2005</b> , 35, 1942-1951	1.9	48
298	How long do trees take to reach breast height after fire in northeastern Ontario?. <i>Canadian Journal of Forest Research</i> , <b>2002</b> , 32, 1889-1892	1.9	48
297	Does species richness affect fine root biomass and production in young forest plantations?. <i>Oecologia</i> , <b>2015</b> , 177, 581-94	2.9	47
296	Mixed-species effect on tree aboveground carbon pools in the east-central boreal forests. <i>Canadian Journal of Forest Research</i> , <b>2010</b> , 40, 37-47	1.9	47
295	Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. <i>Ecology Letters</i> , <b>2018</b> , 21, 31-42	10	47
294	Tree species functional group is a more important driver of soil properties than tree species diversity across major European forest types. <i>Functional Ecology</i> , <b>2017</b> , 31, 1153-1162	5.6	46
293	Global effects of plant litter alterations on soil CO <sub>2</sub> to the atmosphere. <i>Global Change Biology</i> , <b>2018</b> , 24, 3462-3471	11.4	45

292	Aboveground productivity of western hemlock and western redcedar mixed-species stands in southern coastal British Columbia. <i>Forest Ecology and Management</i> , <b>2003</b> , 184, 55-64	3.9	45
291	Late-spring frost risk between 1959 and 2017 decreased in North America but increased in Europe and Asia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 12192-12200	11.5	44
290	Effects of plant diversity on soil carbon in diverse ecosystems: a global meta-analysis. <i>Biological Reviews</i> , <b>2019</b> , 95, 167	13.5	44
289	Intercropping improves soil nutrient availability, soil enzyme activity and tea quantity and quality. <i>Applied Soil Ecology</i> , <b>2017</b> , 119, 171-178	5	43
288	Effects of species diversity on fine root productivity increase with stand development and associated mechanisms in a boreal forest. <i>Journal of Ecology</i> , <b>2017</b> , 105, 237-245	6	43
287	A test of ecological succession hypotheses using 55-year time-series data for 361 boreal forest stands. <i>Global Ecology and Biogeography</i> , <b>2012</b> , 21, 441-454	6.1	42
286	Light availability and photosynthesis of <i>Pseudotsuga menziesii</i> seedlings grown in the open and in the forest understory. <i>Tree Physiology</i> , <b>1997</b> , 17, 23-9	4.2	42
285	Soil aggregate-associated bacterial metabolic activity and community structure in different aged tea plantations. <i>Science of the Total Environment</i> , <b>2019</b> , 654, 1023-1032	10.2	41
284	Effects of sulfuric, nitric, and mixed acid rain on Chinese fir sapling growth in Southern China. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 160, 154-161	7	41
283	Effects of arbuscular mycorrhizal fungi on the drought tolerance of <i>Cyclobalanopsis glauca</i> seedlings under greenhouse conditions. <i>New Forests</i> , <b>2014</b> , 45, 545-556	2.6	40
282	Tree-size diversity between single- and mixed-species stands in three forest types in western Canada. <i>Canadian Journal of Forest Research</i> , <b>2005</b> , 35, 593-601	1.9	40
281	Simulation of extreme precipitation indices in the Yangtze River basin by using statistical downscaling method (SDSM). <i>Theoretical and Applied Climatology</i> , <b>2012</b> , 108, 325-343	3	39
280	Effect of forest canopy composition on soil nutrients and dynamics of the understorey: mixed canopies serve neither vascular nor bryophyte strata. <i>Journal of Vegetation Science</i> , <b>2011</b> , 22, 1105-1119	3.1	39
279	The direct regeneration hypothesis in northern forests. <i>Journal of Vegetation Science</i> , <b>2009</b> , 20, 735-744	3.1	39
278	Soil enzyme activities increase following restoration of degraded subtropical forests. <i>Geoderma</i> , <b>2019</b> , 351, 180-187	6.7	38
277	Spatial and Temporal Variability of Precipitation and Dryness/Wetness During 1961-2008 in Sichuan Province, West China. <i>Water Resources Management</i> , <b>2014</b> , 28, 1655-1670	3.7	38
276	Coarse root biomass allometric equations for <i>Abies balsamea</i> , <i>Picea mariana</i> , <i>Pinus banksiana</i> , and <i>Populus tremuloides</i> in the boreal forest of Ontario, Canada. <i>Biomass and Bioenergy</i> , <b>2011</b> , 35, 4189-4196	5.3	38
275	Impacts of hydraulic redistribution on grass-tree competition vs facilitation in a semi-arid savanna. <i>New Phytologist</i> , <b>2017</b> , 215, 1451-1461	9.8	37

274	The Contribution of Litterfall to Net Primary Production During Secondary Succession in the Boreal Forest. <i>Ecosystems</i> , <b>2017</b> , 20, 830-844	3.9	37
273	Variation of the understory composition and diversity along a gradient of productivity in <i>Populus tremuloides</i> stands of northern British Columbia, Canada. <i>Canadian Journal of Botany</i> , <b>2004</b> , 82, 1314-1323		37
272	Climate change impacts on boreal forest timber supply. <i>Forest Policy and Economics</i> , <b>2018</b> , 92, 11-21	3.6	36
271	Responses of litter decomposition and nutrient release to N addition: A meta-analysis of terrestrial ecosystems. <i>Applied Soil Ecology</i> , <b>2018</b> , 128, 35-42	5	36
270	Intensive forest harvesting increases susceptibility of northern forest soils to carbon, nitrogen and phosphorus loss. <i>Journal of Applied Ecology</i> , <b>2018</b> , 55, 246-255	5.8	35
269	Fertilization of SRC Willow, I: Biomass Production Response. <i>Bioenergy Research</i> , <b>2014</b> , 7, 319-328	3.1	35
268	Variation and evolution of C:N ratio among different organs enable plants to adapt to N-limited environments. <i>Global Change Biology</i> , <b>2019</b> , 26, 2534	11.4	35
267	Identifying the tree species compositions that maximize ecosystem functioning in European forests. <i>Journal of Applied Ecology</i> , <b>2019</b> , 56, 733-744	5.8	35
266	Soil organic carbon stabilization mechanisms in a subtropical mangrove and salt marsh ecosystems. <i>Science of the Total Environment</i> , <b>2019</b> , 673, 502-510	10.2	34
265	Decline in Net Ecosystem Productivity Following Canopy Transition to Late-Succession Forests. <i>Ecosystems</i> , <b>2014</b> , 17, 778-791	3.9	34
264	Plant diversity loss reduces soil respiration across terrestrial ecosystems. <i>Global Change Biology</i> , <b>2019</b> , 25, 1482	11.4	33
263	The influence of recent climate change on tree height growth differs with species and spatial environment. <i>PLoS ONE</i> , <b>2011</b> , 6, e14691	3.7	32
262	Black Spruce Soils Accumulate More Uncomplexed Organic Matter than Aspen Soils. <i>Soil Science Society of America Journal</i> , <b>2011</b> , 75, 1125-1132	2.5	32
261	Aboveground biomass of understorey vegetation has a negligible or negative association with overstorey tree species diversity in natural forests. <i>Global Ecology and Biogeography</i> , <b>2016</b> , 25, 141-150	6.1	32
260	Autotrophic and heterotrophic soil respiration responds asymmetrically to drought in a subtropical forest in the Southeast China. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 123, 242-249	7.5	32
259	Multiple drivers of plant diversity in forest ecosystems. <i>Global Ecology and Biogeography</i> , <b>2014</b> , 23, 885-893		31
258	Persistent and pervasive compositional shifts of western boreal forest plots in Canada. <i>Global Change Biology</i> , <b>2017</b> , 23, 857-866	11.4	31
257	Effects of stand age, wildfire and clearcut harvesting on forest floor in boreal mixedwood forests. <i>Plant and Soil</i> , <b>2010</b> , 336, 267-277	4.2	31



256	Survival, growth, and allometry of planted <i>Larix occidentalis</i> seedlings in relation to light availability. <i>Forest Ecology and Management</i> , <b>1998</b> , 106, 169-179	3.9	31
255	Tree diversity is key for promoting the diversity and abundance of forest-associated taxa in Europe. <i>Oikos</i> , <b>2020</b> , 129, 133-146	4	31
254	Comparative effects of simulated acid rain of different ratios of SO to NO on fine root in subtropical plantation of China. <i>Science of the Total Environment</i> , <b>2018</b> , 618, 336-346	10.2	31
253	Reclamation strategies for mined forest soils and overstorey drive understory vegetation. <i>Journal of Applied Ecology</i> , <b>2018</b> , 55, 926-936	5.8	30
252	Recovery of Ecosystem Carbon Stocks in Young Boreal Forests: A Comparison of Harvesting and Wildfire Disturbance. <i>Ecosystems</i> , <b>2014</b> , 17, 851-863	3.9	30
251	Mechanisms Regulating Epiphytic Plant Diversity. <i>Critical Reviews in Plant Sciences</i> , <b>2012</b> , 31, 391-400	5.6	30
250	Arbuscular mycorrhizal fungi improve the growth and drought tolerance of <i>Zenia insignis</i> seedlings under drought stress. <i>New Forests</i> , <b>2019</b> , 50, 593-604	2.6	30
249	Spatial and temporal variability of precipitation indices during 1961-2010 in Hunan Province, central south China. <i>Theoretical and Applied Climatology</i> , <b>2014</b> , 118, 581-595	3	29
248	Root structure of western hemlock and western redcedar in single- and mixed-species stands. <i>Canadian Journal of Forest Research</i> , <b>2002</b> , 32, 997-1004	1.9	29
247	Indirect methods produce higher estimates of fine root production and turnover rates than direct methods. <i>PLoS ONE</i> , <b>2012</b> , 7, e48989	3.7	29
246	Analysis of <i>Dendrobium huoshanense</i> transcriptome unveils putative genes associated with active ingredients synthesis. <i>BMC Genomics</i> , <b>2018</b> , 19, 978	4.5	29
245	Accumulation of soil organic carbon after cropland conversion to short-rotation willow and poplar. <i>GCB Bioenergy</i> , <b>2017</b> , 9, 1390-1401	5.6	28
244	Fertilizer regime impacts on abundance and diversity of soil fauna across a poplar plantation chronosequence in coastal Eastern China. <i>Scientific Reports</i> , <b>2016</b> , 6, 20816	4.9	28
243	Changes in nitrogen resorption of trembling aspen ( <i>Populus tremuloides</i> ) with stand development. <i>Plant and Soil</i> , <b>2010</b> , 327, 121-129	4.2	28
242	Vegetation change impacts on soil organic carbon chemical composition in subtropical forests. <i>Scientific Reports</i> , <b>2016</b> , 6, 29607	4.9	28
241	Afforestation promotes the enhancement of forest LAI and NPP in China. <i>Forest Ecology and Management</i> , <b>2020</b> , 462, 117990	3.9	27
240	Using functional trait diversity patterns to disentangle the scale-dependent ecological processes in a subtropical forest. <i>Functional Ecology</i> , <b>2018</b> , 32, 1379-1389	5.6	27
239	Multi-millennial fire frequency and tree abundance differ between xeric and mesic boreal forests in central Canada. <i>Journal of Ecology</i> , <b>2013</b> , 101, 356-367	6	27

238	Global meta-analysis on the responses of soil extracellular enzyme activities to warming. <i>Science of the Total Environment</i> , <b>2020</b> , 705, 135992	10.2	27
237	Response of Plants to Water Stress: A Meta-Analysis. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 978	6.2	26
236	Multiple abiotic and biotic drivers of aboveground biomass shift with forest stratum. <i>Forest Ecology and Management</i> , <b>2019</b> , 436, 1-10	3.9	26
235	Long-term, amplified responses of soil organic carbon to nitrogen addition worldwide. <i>Global Change Biology</i> , <b>2021</b> , 27, 1170-1180	11.4	26
234	Impacts of changes in vegetation on saturated hydraulic conductivity of soil in subtropical forests. <i>Scientific Reports</i> , <b>2019</b> , 9, 8372	4.9	25
233	Species-rich boreal forests grew more and suffered less mortality than species-poor forests under the environmental change of the past half-century. <i>Ecology Letters</i> , <b>2019</b> , 22, 999-1008	10	25
232	Soil Carbon and Nutrient Dynamics Following Cessation of Anthropogenic Disturbances in Degraded Subtropical Forests. <i>Land Degradation and Development</i> , <b>2017</b> , 28, 2457-2467	4.4	25
231	Multiple interactions between tree composition and diversity and microbial diversity underly litter decomposition. <i>Geoderma</i> , <b>2019</b> , 341, 161-171	6.7	24
230	Dynamics of epiphytic macrolichen abundance, diversity and composition in boreal forest. <i>Journal of Applied Ecology</i> , <b>2015</b> , 52, 181-189	5.8	24
229	Forest-type shift and subsequent intensive management affected soil organic carbon and microbial community in southeastern China. <i>European Journal of Forest Research</i> , <b>2017</b> , 136, 689-697	2.7	24
228	Biomass and its allocation in relation to temperature, precipitation, and soil nutrients in Inner Mongolia grasslands, China. <i>PLoS ONE</i> , <b>2013</b> , 8, e69561	3.7	24
227	RowBee: A Routing Protocol Based on Cross-Technology Communication for Energy-Harvesting Wireless Sensor Networks. <i>IEEE Access</i> , <b>2019</b> , 7, 40663-40673	3.5	23
226	Drought stress induced increase of fungi:bacteria ratio in a poplar plantation. <i>Catena</i> , <b>2020</b> , 193, 104607	5.8	23
225	Silicon-mediated plant defense against pathogens and insect pests. <i>Pesticide Biochemistry and Physiology</i> , <b>2020</b> , 168, 104641	4.9	23
224	Legacy of Pre-Disturbance Spatial Pattern Determines Early Structural Diversity following Severe Disturbance in Montane Spruce Forests. <i>PLoS ONE</i> , <b>2015</b> , 10, e0139214	3.7	23
223	Impacts of forest conversion on soil bacterial community composition and diversity in subtropical forests. <i>Catena</i> , <b>2019</b> , 175, 167-173	5.8	23
222	Conifer proportion explains fine root biomass more than tree species diversity and site factors in major European forest types. <i>Forest Ecology and Management</i> , <b>2017</b> , 406, 330-350	3.9	22
221	Fertilization of SRC Willow, II: Leaching and Element Balances. <i>Bioenergy Research</i> , <b>2014</b> , 7, 338-352	3.1	22

220	Tree size thresholds produce biased estimates of forest biomass dynamics. <i>Forest Ecology and Management</i> , <b>2017</b> , 400, 468-474	3.9	22
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218	Moisture budget variations in the Yangtze River Basin, China, and possible associations with large-scale circulation. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2010</b> , 24, 579-589	3.5	22
217	Height growth and site index models for trembling aspen ( <i>Populus tremuloides</i> Michx.) in northern British Columbia. <i>Forest Ecology and Management</i> , <b>1998</b> , 102, 157-165	3.9	22
216	Relative size and stand age determine <i>Pinus banksiana</i> mortality. <i>Forest Ecology and Management</i> , <b>2008</b> , 255, 3980-3984	3.9	22
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213	Do forests best mitigate CO emissions to the atmosphere by setting them aside for maximization of carbon storage or by management for fossil fuel substitution?. <i>Journal of Environmental Management</i> , <b>2017</b> , 197, 117-129	7.9	21
212	Spatial heterogeneity of heavy metal contamination in soils and plants in Hefei, China. <i>Scientific Reports</i> , <b>2019</b> , 9, 1049	4.9	21
211	Projected effects of climate change on boreal bird community accentuated by anthropogenic disturbances in western boreal forest, Canada. <i>Diversity and Distributions</i> , <b>2020</b> , 26, 668-682	5	21
210	Simplifying the decision matrix for estimating fine root production by the sequential soil coring approach. <i>Acta Oecologica</i> , <b>2013</b> , 48, 54-61	1.7	21
209	Tree species diversity promotes litterfall productivity through crown complementarity in subtropical forests. <i>Journal of Ecology</i> , <b>2019</b> , 107, 1852-1861	6	20
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205	Diversity of northern plantations peaks at intermediate management intensity. <i>Forest Ecology and Management</i> , <b>2010</b> , 259, 360-366	3.9	20
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203	Variation in total and volatile carbon concentration among the major tree species of the boreal forest. <i>Forest Ecology and Management</i> , <b>2016</b> , 375, 191-199	3.9	20

202	Exogenous 24-Epibrassinolide Alleviates Effects of Salt Stress on Chloroplasts and Photosynthesis in Robinia pseudoacacia L. Seedlings. <i>Journal of Plant Growth Regulation</i> , <b>2019</b> , 38, 669-682	4.7	20
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200	Negative to positive shifts in diversity effects on soil nitrogen over time. <i>Nature Sustainability</i> , <b>2021</b> , 4, 225-232	22.1	20
199	Influence of harvesting on understory vegetation along a boreal riparian-upland gradient. <i>Forest Ecology and Management</i> , <b>2014</b> , 312, 138-147	3.9	19
198	Carbon dynamics of aboveground live vegetation of boreal mixedwoods after wildfire and clear-cutting. <i>Canadian Journal of Forest Research</i> , <b>2010</b> , 40, 1862-1869	1.9	19
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196	Bryophyte abundance, diversity and composition after retention harvest in boreal mixedwood forest. <i>Journal of Applied Ecology</i> , <b>2018</b> , 55, 947-957	5.8	19
195	Effects of coarse woody debris on plant and lichen species composition in boreal forests. <i>Journal of Vegetation Science</i> , <b>2017</b> , 28, 389-400	3.1	18
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193	Changing characteristics of precipitation during 1960-2012 in Inner Mongolia, northern China. <i>Meteorology and Atmospheric Physics</i> , <b>2015</b> , 127, 257-271	2	18
192	Rapid increases in fine root biomass and production following cessation of anthropogenic disturbances in degraded forests. <i>Land Degradation and Development</i> , <b>2018</b> , 29, 461-470	4.4	18
191	Spatial climate-dependent growth response of boreal mixedwood forest in western Canada. <i>Global and Planetary Change</i> , <b>2016</b> , 139, 141-150	4.2	18
190	Effects of Disturbance on Fine Root Dynamics in the Boreal Forests of Northern Ontario, Canada. <i>Ecosystems</i> , <b>2013</b> , 16, 467-477	3.9	18
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188	Carbon accumulation in agroforestry systems is affected by tree species diversity, age and regional climate: A global meta-analysis. <i>Global Ecology and Biogeography</i> , <b>2020</b> , 29, 1817-1828	6.1	17
187	Interspecific variation in growth responses to tree size, competition and climate of western Canadian boreal mixed forests. <i>Science of the Total Environment</i> , <b>2018</b> , 631-632, 1070-1078	10.2	17
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184	Climatic change only stimulated growth for trees under weak competition in central boreal forests. <i>Journal of Ecology</i> , <b>2020</b> , 108, 36-46	6	17
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182	Effects of Arbuscular Mycorrhizal Fungi on Growth, Photosynthesis, and Nutrient Uptake of <i>Zelkova serrata</i> (Thunb.) Makino Seedlings under Salt Stress. <i>Forests</i> , <b>2019</b> , 10, 186	2.8	16
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171	Deadwood Density of Five Boreal Tree Species in Relation to Field-Assigned Decay Class. <i>Forest Science</i> , <b>2013</b> , 59, 261-266	1.4	15
170	Responses of C:N stoichiometry in plants, soil, and microorganisms to nitrogen addition. <i>Plant and Soil</i> , <b>2020</b> , 456, 277-287	4.2	15
169	Carbon Storage Declines in Old Boreal Forests Irrespective of Succession Pathway. <i>Ecosystems</i> , <b>2018</b> , 21, 1168-1182	3.9	15
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89	Sustainability of Canada's forestry sector may be compromised by impending climate change. <i>Forest Ecology and Management</i> , <b>2020</b> , 474, 118352	3.9	5
88	Leaf phosphorus content of <i>Quercus wutaishanica</i> increases with total soil potassium in the Loess Plateau. <i>PLoS ONE</i> , <b>2018</b> , 13, e0201350	3.7	5
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