

Benjamin L Turner

List of Publications by Citations

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339
papers

22,217
citations

77
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136
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354
ext. papers

26,702
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7
avg, IF

7.28
L-index

#	Paper	IF	Citations
339	Global desertification: building a science for dryland development. <i>Science</i> , 2007 , 316, 847-51	33.3	1643
338	A communal catalogue reveals Earth's multiscale microbial diversity. <i>Nature</i> , 2017 , 551, 457-463	50.4	1076
337	Drought sensitivity shapes species distribution patterns in tropical forests. <i>Nature</i> , 2007 , 447, 80-2	50.4	727
336	Mycorrhiza-mediated competition between plants and decomposers drives soil carbon storage. <i>Nature</i> , 2014 , 505, 543-5	50.4	519
335	Inositol phosphates in the environment. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002 , 357, 449-69	5.8	508
334	Potassium, phosphorus, or nitrogen limit root allocation, tree growth, or litter production in a lowland tropical forest. <i>Ecology</i> , 2011 , 92, 1616-25	4.6	379
333	CTFS-ForestGEO: a worldwide network monitoring forests in an era of global change. <i>Global Change Biology</i> , 2015 , 21, 528-49	11.4	368
332	Biogeochemistry. Phosphorus solubilization in rewetted soils. <i>Nature</i> , 2001 , 411, 258	50.4	306
331	Species distributions in response to individual soil nutrients and seasonal drought across a community of tropical trees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 5064-8	11.5	304
330	Phosphorus-31 Nuclear Magnetic Resonance Spectral Assignments of Phosphorus Compounds in Soil NaOH/EDTA Extracts. <i>Soil Science Society of America Journal</i> , 2003 , 67, 497-510	2.5	301
329	Extraction of soil organic phosphorus. <i>Talanta</i> , 2005 , 66, 294-306	6.2	290
328	Understanding ecosystem retrogression. <i>Ecological Monographs</i> , 2010 , 80, 509-529	9	280
327	Linkages of plant traits to soil properties and the functioning of temperate grassland. <i>Journal of Ecology</i> , 2010 , 98, 1074-1083	6	243
326	Resource partitioning for soil phosphorus: a hypothesis. <i>Journal of Ecology</i> , 2008 , 96, 698-702	6	221
325	Changes in enzyme activities and soil microbial community composition along carbon and nutrient gradients at the Franz Josef chronosequence, New Zealand. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 1770-1781	7.5	210
324	Soil Organic Phosphorus Transformations During Pedogenesis. <i>Ecosystems</i> , 2007 , 10, 1166-1181	3.9	207
323	Long-term change in the nitrogen cycle of tropical forests. <i>Science</i> , 2011 , 334, 664-6	33.3	203

322	The phosphorus transfer continuum: linking source to impact with an interdisciplinary and multi-scaled approach. <i>Science of the Total Environment</i> , 2005 , 344, 5-14	10.2	201
321	Characterisation of water-extractable soil organic phosphorus by phosphatase hydrolysis. <i>Soil Biology and Biochemistry</i> , 2002 , 34, 27-35	7.5	193
320	Foliar nutrient concentrations and resorption efficiency in plants of contrasting nutrient-acquisition strategies along a 2-million-year dune chronosequence. <i>Journal of Ecology</i> , 2014 , 102, 396-410	6	191
319	Plant-soil feedback and the maintenance of diversity in Mediterranean-climate shrublands. <i>Science</i> , 2017 , 355, 173-176	33.3	190
318	Phosphorus compounds in sequential extracts of animal manures: chemical speciation and a novel fractionation procedure. <i>Environmental Science & Technology</i> , 2004 , 38, 6101-8	10.3	188
317	Soil organic phosphorus in lowland tropical rain forests. <i>Biogeochemistry</i> , 2011 , 103, 297-315	3.8	184
316	Environmental filtering explains variation in plant diversity along resource gradients. <i>Science</i> , 2014 , 345, 1602-5	33.3	179
315	The phosphorus composition of temperate pasture soils determined by NaOH-EDTA extraction and solution ³¹ P NMR spectroscopy. <i>Organic Geochemistry</i> , 2003 , 34, 1199-1210	3.1	176
314	β-Glucosidase activity in pasture soils. <i>Applied Soil Ecology</i> , 2002 , 20, 157-162	5	173
313	Relating soil phosphorus to dissolved phosphorus in runoff: a single extraction coefficient for water quality modeling. <i>Journal of Environmental Quality</i> , 2005 , 34, 572-80	3.4	170
312	Leaf manganese accumulation and phosphorus-acquisition efficiency. <i>Trends in Plant Science</i> , 2015 , 20, 83-90	13.1	166
311	Tropical tree seedling growth responses to nitrogen, phosphorus and potassium addition. <i>Journal of Ecology</i> , 2012 , 100, 309-316	6	166
310	Tropical wetlands: A missing link in the global carbon cycle?. <i>Global Biogeochemical Cycles</i> , 2014 , 28, 1371-1386	5.9	161
309	Variation in pH optima of hydrolytic enzyme activities in tropical rain forest soils. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 6485-93	4.8	160
308	Proteaceae from severely phosphorus-impooverished soils extensively replace phospholipids with galactolipids and sulfolipids during leaf development to achieve a high photosynthetic phosphorus-use-efficiency. <i>New Phytologist</i> , 2012 , 196, 1098-1108	9.8	157
307	Pervasive phosphorus limitation of tree species but not communities in tropical forests. <i>Nature</i> , 2018 , 555, 367-370	50.4	155
306	Experimental assessment of nutrient limitation along a 2-million-year dune chronosequence in the south-western Australia biodiversity hotspot. <i>Journal of Ecology</i> , 2012 , 100, 631-642	6	150
305	Plant diversity increases with the strength of negative density dependence at the global scale. <i>Science</i> , 2017 , 356, 1389-1392	33.3	150

304	Organic Phosphorus Composition and Potential Bioavailability in Semi-Arid Arable Soils of the Western United States. <i>Soil Science Society of America Journal</i> , 2003 , 67, 1168-1179	2.5	149
303	Soil resources and topography shape local tree community structure in tropical forests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20122532	4.4	148
302	The response of microbial biomass and hydrolytic enzymes to a decade of nitrogen, phosphorus, and potassium addition in a lowland tropical rain forest. <i>Biogeochemistry</i> , 2014 , 117, 115-130	3.8	142
301	Diversity of plant nutrient-acquisition strategies increases during long-term ecosystem development. <i>Nature Plants</i> , 2015 , 1,	11.5	139
300	Stoichiometry of microbial carbon use efficiency in soils. <i>Ecological Monographs</i> , 2016 , 86, 172-189	9	136
299	Sampling, sample treatment and quality assurance issues for the determination of phosphorus species in natural waters and soils. <i>Talanta</i> , 2005 , 66, 273-93	6.2	131
298	Phosphatase activity in temperate pasture soils: Potential regulation of labile organic phosphorus turnover by phosphodiesterase activity. <i>Science of the Total Environment</i> , 2005 , 344, 27-36	10.2	131
297	How does pedogenesis drive plant diversity?. <i>Trends in Ecology and Evolution</i> , 2013 , 28, 331-40	10.9	130
296	Soil microbial biomass and the fate of phosphorus during long-term ecosystem development. <i>Plant and Soil</i> , 2013 , 367, 225-234	4.2	127
295	Potential contribution of lysed bacterial cells to phosphorus solubilisation in two rewetted Australian pasture soils. <i>Soil Biology and Biochemistry</i> , 2003 , 35, 187-189	7.5	124
294	Relating belowground microbial composition to the taxonomic, phylogenetic, and functional trait distributions of trees in a tropical forest. <i>Ecology Letters</i> , 2015 , 18, 1397-405	10	121
293	Phosphorus Forms and Concentrations in Leachate under Four Grassland Soil Types. <i>Soil Science Society of America Journal</i> , 2000 , 64, 1090-1099	2.5	120
292	Soil organic phosphorus dynamics following perturbation of litter cycling in a tropical moist forest. <i>European Journal of Soil Science</i> , 2010 , 61, 48-57	3.4	113
291	Carbon stocks in primary and secondary tropical forests in Singapore. <i>Forest Ecology and Management</i> , 2013 , 296, 81-89	3.9	105
290	Determination of neo- and D-chiro-inositol hexakisphosphate in soils by solution 31P NMR spectroscopy. <i>Environmental Science & Technology</i> , 2012 , 46, 4994-5002	10.3	102
289	The global-scale distributions of soil protists and their contributions to belowground systems. <i>Science Advances</i> , 2020 , 6, eaax8787	14.3	101
288	Fungal community composition in neotropical rain forests: the influence of tree diversity and precipitation. <i>Microbial Ecology</i> , 2012 , 63, 804-12	4.4	99
287	Phosphorus cycling in wetland soils: the importance of phosphate diesters. <i>Journal of Environmental Quality</i> , 2005 , 34, 1921-9	3.4	99

286	Tropical forest responses to increasing atmospheric CO: current knowledge and opportunities for future research. <i>Functional Plant Biology</i> , 2013 , 40, 531-551	2.7	97
285	Microbes follow Humboldt: temperature drives plant and soil microbial diversity patterns from the Amazon to the Andes. <i>Ecology</i> , 2018 , 99, 2455-2466	4.6	95
284	Species-specific responses of foliar nutrients to long-term nitrogen and phosphorus additions in a lowland tropical forest. <i>Journal of Ecology</i> , 2014 , 102, 36-44	6	94
283	Stem, root, and older leaf N:P ratios are more responsive indicators of soil nutrient availability than new foliage. <i>Ecology</i> , 2014 , 95, 2062-8	4.6	92
282	Tree mycorrhizal type predicts within-site variability in the storage and distribution of soil organic matter. <i>Global Change Biology</i> , 2018 , 24, 3317-3330	11.4	91
281	Convergence of soil nitrogen isotopes across global climate gradients. <i>Scientific Reports</i> , 2015 , 5, 8280	4.9	90
280	. <i>Soil Science</i> , 2003 , 168, 469-478	0.9	90
279	Leaf nitrogen to phosphorus ratios of tropical trees: experimental assessment of physiological and environmental controls. <i>New Phytologist</i> , 2010 , 185, 770-9	9.8	88
278	Identification of scyllo-Inositol Phosphates in Soil by Solution Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy. <i>Soil Science Society of America Journal</i> , 2004 , 68, 802-808	2.5	88
277	Priming and microbial nutrient limitation in lowland tropical forest soils of contrasting fertility. <i>Biogeochemistry</i> , 2012 , 111, 219-237	3.8	86
276	Soil organic phosphorus in tropical forests: an assessment of the NaOHEDTA extraction procedure for quantitative analysis by solution 31P NMR spectroscopy. <i>European Journal of Soil Science</i> , 2008 , 59, 453-466	3.4	86
275	Using organic phosphorus to sustain pasture productivity: A perspective. <i>Geoderma</i> , 2014 , 221-222, 11-10.7	8.5	85
274	An ectomycorrhizal nitrogen economy facilitates monodominance in a neotropical forest. <i>Ecology Letters</i> , 2016 , 19, 383-92	10	85
273	Recovering phosphorus from soil: a root solution?. <i>Environmental Science & Technology</i> , 2012 , 46, 1977-8	10.3	84
272	Soil Development and Nutrient Availability Along a 2 Million-Year Coastal Dune Chronosequence Under Species-Rich Mediterranean Shrubland in Southwestern Australia. <i>Ecosystems</i> , 2015 , 18, 287-309	3.9	82
271	Photosynthetic physiology of eucalypts along a sub-continental rainfall gradient in northern Australia. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 1462-1470	5.8	82
270	Transpiration efficiency of a tropical pioneer tree (<i>Ficus insipida</i>) in relation to soil fertility. <i>Journal of Experimental Botany</i> , 2007 , 58, 3549-66	7	82
269	Optimizing Phosphorus Characterization in Animal Manures by Solution Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Environmental Quality</i> , 2004 , 33, 757-766	3.4	82

268	Soil bacterial community succession during long-term ecosystem development. <i>Molecular Ecology</i> , 2013 , 22, 3415-24	5.7	81
267	Habitat filtering across tree life stages in tropical forest communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20130548	4.4	81
266	Depletion of organic phosphorus from Oxisols in relation to phosphatase activities in the rhizosphere. <i>European Journal of Soil Science</i> , 2006 , 57, 47-57	3.4	81
265	Soil organic matter biochemistry and potential susceptibility to climatic change across the forest-tundra ecotone in the Fennoscandian mountains. <i>Global Change Biology</i> , 2003 , 9, 759-772	11.4	81
264	Nitrogen and phosphorus constrain labile and stable carbon turnover in lowland tropical forest soils. <i>Soil Biology and Biochemistry</i> , 2015 , 80, 26-33	7.5	79
263	Variable Responses of Lowland Tropical Forest Nutrient Status to Fertilization and Litter Manipulation. <i>Ecosystems</i> , 2012 , 15, 387-400	3.9	79
262	Short-Term Changes in Extractable Inorganic Nutrients during Storage of Tropical Rain Forest Soils. <i>Soil Science Society of America Journal</i> , 2009 , 73, 1972-1979	2.5	75
261	Phosphorus-31 Nuclear Magnetic Resonance Spectral Assignments of Phosphorus Compounds in Soil NaOHEDTA Extracts 2003 , 67, 497		73
260	Phosphorus fractionation in lowland tropical rainforest soils in central Panama. <i>Catena</i> , 2010 , 82, 118-125.8		72
259	Conifers, angiosperm trees, and lianas: growth, whole-plant water and nitrogen use efficiency, and stable isotope composition ($\delta^{13}\text{C}$ and $\delta^{18}\text{O}$) of seedlings grown in a tropical environment. <i>Plant Physiology</i> , 2008 , 148, 642-59	6.6	71
258	QUANTIFICATION OF MYO-INOSITOL HEXAKISPHOSPHATE IN ALKALINE SOIL EXTRACTS BY SOLUTION ^{31}P NMR SPECTROSCOPY AND SPECTRAL DECONVOLUTION. <i>Soil Science</i> , 2003 , 168, 469-478.9	8.9	71
257	Piecewise disassembly of a large-herbivore community across a rainfall gradient: the UHURU experiment. <i>PLoS ONE</i> , 2013 , 8, e55192	3.7	70
256	Changes in Bicarbonate-extractable Inorganic and Organic Phosphorus by Drying Pasture Soils. <i>Soil Science Society of America Journal</i> , 2003 , 67, 344-350	2.5	68
255	Broiler diet modification and litter storage: impacts on phosphorus in litters, soils, and runoff. <i>Journal of Environmental Quality</i> , 2005 , 34, 1896-909	3.4	67
254	Physiological and isotopic ($\delta^{13}\text{C}$ and $\delta^{18}\text{O}$) responses of three tropical tree species to water and nutrient availability. <i>Plant, Cell and Environment</i> , 2009 , 32, 1441-55	8.4	64
253	Influence of phytase addition to poultry diets on phosphorus forms and solubility in litters and amended soils. <i>Journal of Environmental Quality</i> , 2004 , 33, 2306-16	3.4	63
252	Isolating the influence of pH on the amounts and forms of soil organic phosphorus. <i>European Journal of Soil Science</i> , 2013 , 64, 249-259	3.4	62
251	Temporal variability in phosphorus transfers: classifying concentration-discharge event dynamics. <i>Hydrology and Earth System Sciences</i> , 2004 , 8, 88-97	5.5	62

250	Phosphorus transformations during decomposition of wetland macrophytes. <i>Environmental Science & Technology</i> , 2010 , 44, 9265-71	10.3	61
249	Nutrient-specific solubility patterns of leaf litter across 41 lowland tropical woody species. <i>Ecology</i> , 2013 , 94, 94-105	4.6	60
248	Biogeochemical processes along a nutrient gradient in a tropical ombrotrophic peatland. <i>Biogeochemistry</i> , 2011 , 104, 147-163	3.8	60
247	Organic phosphorus sequestration in subtropical treatment wetlands. <i>Environmental Science & Technology</i> , 2006 , 40, 727-33	10.3	60
246	Increasing plant species diversity and extreme species turnover accompany declining soil fertility along a long-term chronosequence in a biodiversity hotspot. <i>Journal of Ecology</i> , 2016 , 104, 792-805	6	59
245	Variation in ectomycorrhizal fungal communities associated with <i>Oreomunnea mexicana</i> (Juglandaceae) in a Neotropical montane forest. <i>Mycorrhiza</i> , 2016 , 26, 1-17	3.9	58
244	Community proteogenomics reveals the systemic impact of phosphorus availability on microbial functions in tropical soil. <i>Nature Ecology and Evolution</i> , 2018 , 2, 499-509	12.3	58
243	Negative density dependence is stronger in resource-rich environments and diversifies communities when stronger for common but not rare species. <i>Ecology Letters</i> , 2016 , 19, 657-67	10	58
242	Nitrogen to phosphorus ratio of plant biomass versus soil solution in a tropical pioneer tree, <i>Ficus insipida</i> . <i>Journal of Experimental Botany</i> , 2010 , 61, 3735-48	7	58
241	Plant responses to fertilization experiments in lowland, species-rich, tropical forests. <i>Ecology</i> , 2018 , 99, 1129-1138	4.6	57
240	The roots of diversity: below ground species richness and rooting distributions in a tropical forest revealed by DNA barcodes and inverse modeling. <i>PLoS ONE</i> , 2011 , 6, e24506	3.7	57
239	Contribution of subsurface peat to CO ₂ and CH ₄ fluxes in a neotropical peatland. <i>Global Change Biology</i> , 2011 , 17, 2867-2881	11.4	56
238	Stability of hydrolytic enzyme activity and microbial phosphorus during storage of tropical rain forest soils. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 459-465	7.5	56
237	Root exudate analogues accelerate CO ₂ and CH ₄ production in tropical peat. <i>Soil Biology and Biochemistry</i> , 2018 , 117, 48-55	7.5	54
236	Soil fertility shapes belowground food webs across a regional climate gradient. <i>Ecology Letters</i> , 2017 , 20, 1273-1284	10	54
235	Responses of legume versus nonlegume tropical tree seedlings to elevated CO ₂ concentration. <i>Plant Physiology</i> , 2011 , 157, 372-85	6.6	54
234	Climate Warming and Soil Carbon in Tropical Forests: Insights from an Elevation Gradient in the Peruvian Andes. <i>BioScience</i> , 2015 , 65, 906-921	5.7	53
233	Chemistry and Dynamics of Soil Organic Phosphorus. <i>Agronomy</i> , 2015 , 87-121	0.8	53

232	Rapid estimation of microbial biomass in grassland soils by ultra-violet absorbance. <i>Soil Biology and Biochemistry</i> , 2001 , 33, 913-919	7.5	53
231	Soil nutrients and dispersal limitation shape compositional variation in secondary tropical forests across multiple scales. <i>Journal of Ecology</i> , 2019 , 107, 566-581	6	53
230	Responses of soil fungi to logging and oil palm agriculture in Southeast Asian tropical forests. <i>Microbial Ecology</i> , 2015 , 69, 733-47	4.4	52
229	Evidence for arrested succession in a liana-infested Amazonian forest. <i>Journal of Ecology</i> , 2016 , 104, 149-159	6	52
228	Soil-based habitat partitioning in understory palms in lower montane tropical forests. <i>Journal of Biogeography</i> , 2010 , 37, 278-292	4.1	52
227	Phosphorus speciation in temperate basaltic grassland soils by solution ³¹ P NMR spectroscopy. <i>European Journal of Soil Science</i> , 2009 , 60, 638-651	3.4	52
226	Overestimation of organic phosphorus in wetland soils by alkaline extraction and molybdate colorimetry. <i>Environmental Science & Technology</i> , 2006 , 40, 3349-54	10.3	52
225	Colloidal phosphorus in surface runoff and water extracts from semiarid soils of the western United States. <i>Journal of Environmental Quality</i> , 2004 , 33, 1464-72	3.4	51
224	Phosphorus compounds in subarctic Fennoscandian soils at the mountain birch (<i>Betula pubescens</i>) tundra ecotone. <i>Soil Biology and Biochemistry</i> , 2004 , 36, 815-823	7.5	51
223	Characterization of the phosphatase activities of mosses in relation to their environment. <i>Plant, Cell and Environment</i> , 2001 , 24, 1165-1176	8.4	51
222	Preconcentration and Separation of Trace Phosphorus Compounds in Soil Leachate. <i>Journal of Environmental Quality</i> , 1999 , 28, 1497-1504	3.4	51
221	Soil carbon loss by experimental warming in a tropical forest. <i>Nature</i> , 2020 , 584, 234-237	50.4	51
220	Trait-based community assembly of understory palms along a soil nutrient gradient in a lower montane tropical forest. <i>Oecologia</i> , 2012 , 168, 519-31	2.9	50
219	Biogeochemical cycling of soil phosphorus during natural revegetation of <i>Pinus sylvestris</i> on disused sand quarries in Northwestern Russia. <i>Plant and Soil</i> , 2013 , 367, 121-134	4.2	50
218	Seasonal phosphatase activity in three characteristic soils of the English uplands polluted by long-term atmospheric nitrogen deposition. <i>Environmental Pollution</i> , 2002 , 120, 313-7	9.3	50
217	Inositol phosphates in soil: amounts, forms and significance of the phosphorylated inositol stereoisomers. 186-206		
216	An ecosystem approach to biodiversity effects: Carbon pools in a tropical tree plantation. <i>Forest Ecology and Management</i> , 2011 , 261, 1614-1624	3.9	49
215	Arbuscular mycorrhizal mycelial respiration in a moist tropical forest. <i>New Phytologist</i> , 2010 , 186, 957-967.8	3.8	49

214	Transpiration modulates phosphorus acquisition in tropical tree seedlings. <i>Tree Physiology</i> , 2011 , 31, 878-85	4.2	49
213	Plant delta 15N correlates with the transpiration efficiency of nitrogen acquisition in tropical trees. <i>Plant Physiology</i> , 2009 , 151, 1667-76	6.6	47
212	Soil phosphorus fractionation and nutrient dynamics along the Cooloola coastal dune chronosequence, southern Queensland, Australia. <i>Geoderma</i> , 2015 , 257-258, 4-13	6.7	46
211	Seasonal Changes and Treatment Effects on Soil Inorganic Nutrients Following a Decade of Fertilizer Addition in a Lowland Tropical Forest. <i>Soil Science Society of America Journal</i> , 2013 , 77, 1357-1369	3.5	46
210	Nutrient Availability in Tropical Rain Forests: The Paradigm of Phosphorus Limitation. <i>Tree Physiology</i> , 2016 , 261-273		45
209	Root and arbuscular mycorrhizal mycelial interactions with soil microorganisms in lowland tropical forest. <i>FEMS Microbiology Ecology</i> , 2013 , 85, 37-50	4.3	45
208	Temperature sensitivity of soil enzymes along an elevation gradient in the Peruvian Andes. <i>Biogeochemistry</i> , 2016 , 127, 217-230	3.8	45
207	Variability in potential to exploit different soil organic phosphorus compounds among tropical montane tree species. <i>Functional Ecology</i> , 2015 , 29, 121-130	5.6	44
206	Linking spatial patterns of leaf litterfall and soil nutrients in a tropical forest: a neighborhood approach. <i>Ecological Applications</i> , 2015 , 25, 2022-34	4.9	44
205	Carbon sequestration potential of tropical pasture compared with afforestation in Panama. <i>Global Change Biology</i> , 2011 , 17, 2763-2780	11.4	44
204	Phosphorus composition of manure from swine fed low-phytate grains: evidence for hydrolysis in the animal. <i>Journal of Environmental Quality</i> , 2004 , 33, 2380-3	3.4	44
203	Variation in wood nutrients along a tropical soil fertility gradient. <i>New Phytologist</i> , 2016 , 211, 440-54	9.8	44
202	Nitrogen addition alters ectomycorrhizal fungal communities and soil enzyme activities in a tropical montane forest. <i>Fungal Ecology</i> , 2017 , 27, 14-23	4.1	43
201	Litter manipulation and the soil arthropod community in a lowland tropical rainforest. <i>Soil Biology and Biochemistry</i> , 2013 , 62, 5-12	7.5	43
200	Soil microbial nutrient constraints along a tropical forest elevation gradient: a belowground test of a biogeochemical paradigm. <i>Biogeosciences</i> , 2015 , 12, 6071-6083	4.6	42
199	Soil organic phosphorus transformations along a coastal dune chronosequence under New Zealand temperate rain forest. <i>Biogeochemistry</i> , 2014 , 121, 595-611	3.8	42
198	Plant-Soil interactions maintain biodiversity and functions of tropical forest ecosystems. <i>Ecological Research</i> , 2018 , 33, 149-160	1.9	42
197	Greater root phosphatase activity in nitrogen-fixing rhizobial but not actinorhizal plants with declining phosphorus availability. <i>Journal of Ecology</i> , 2017 , 105, 1246-1255	6	41

196	Phytate as a novel phosphorus-specific paleo-indicator in aquatic sediments. <i>Journal of Paleolimnology</i> , 2009 , 42, 391-400	2.1	40
195	Phosphorus transformations along a large-scale climosequence in arid and semiarid grasslands of northern China. <i>Global Biogeochemical Cycles</i> , 2016 , 30, 1264-1275	5.9	40
194	The role of soil chemistry and plant neighbourhoods in structuring fungal communities in three Panamanian rainforests. <i>Journal of Ecology</i> , 2017 , 105, 569-579	6	39
193	Phosphorus composition of upland soils polluted by long-term atmospheric nitrogen deposition. <i>Biogeochemistry</i> , 2003 , 65, 259-274	3.8	39
192	Mineralisation of soil orthophosphate monoesters under pine seedlings and ryegrass. <i>Soil Research</i> , 2004 , 42, 189	1.8	39
191	Consequences of tropical forest conversion to oil palm on soil bacterial community and network structure. <i>Soil Biology and Biochemistry</i> , 2017 , 112, 258-268	7.5	38
190	Organic phosphorus in Madagascan rice soils. <i>Geoderma</i> , 2006 , 136, 279-288	6.7	38
189	Optimizing Phosphorus Characterization in Animal Manures by Solution Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Environmental Quality</i> , 2004 , 33, 757	3.4	38
188	Stable nitrogen isotope patterns of trees and soils altered by long-term nitrogen and phosphorus addition to a lowland tropical rainforest. <i>Biogeochemistry</i> , 2014 , 119, 293-306	3.8	37
187	Soil Phosphorus Forms along a Strong Nutrient Gradient in a Tropical Ombrotrophic Wetland. <i>Soil Science Society of America Journal</i> , 2012 , 76, 1496-1506	2.5	37
186	When does intraspecific trait variation contribute to functional beta-diversity?. <i>Journal of Ecology</i> , 2016 , 104, 487-496	6	37
185	Seasonal changes in soil organic matter after a decade of nutrient addition in a lowland tropical forest. <i>Biogeochemistry</i> , 2015 , 123, 221-235	3.8	36
184	Seedling growth responses to phosphorus reflect adult distribution patterns of tropical trees. <i>New Phytologist</i> , 2016 , 212, 400-8	9.8	36
183	Preferences or plasticity in nitrogen acquisition by understory palms in a tropical montane forest. <i>Journal of Ecology</i> , 2013 , 101, 819-825	6	36
182	Plant-soil associations in a lower montane tropical forest: physiological acclimation and herbivore-mediated responses to nitrogen addition. <i>Functional Ecology</i> , 2010 , 24, 1171-1180	5.6	36
181	Soil phosphorus forms in hydrologically isolated wetlands and surrounding pasture uplands. <i>Journal of Environmental Quality</i> , 2010 , 39, 1517-25	3.4	36
180	Temporal patterns of nutrient availability around nests of leaf-cutting ants (<i>Atta colombica</i>) in secondary moist tropical forest. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 1088-1093	7.5	36
179	Ecological aspects of phosphatase activity in cyanobacteria, eukaryotic algae and bryophytes. 2005 , 205-241		36

178	Extinction at the end-Cretaceous and the origin of modern Neotropical rainforests. <i>Science</i> , 2021 , 372, 63-68	33.3	36
177	ForestGEO: Understanding forest diversity and dynamics through a global observatory network. <i>Biological Conservation</i> , 2021 , 253, 108907	6.2	36
176	Quality not quantity: Organic matter composition controls of CO ₂ and CH ₄ fluxes in neotropical peat profiles. <i>Soil Biology and Biochemistry</i> , 2016 , 103, 86-96	7.5	35
175	Informing models through empirical relationships between foliar phosphorus, nitrogen and photosynthesis across diverse woody species in tropical forests of Panama. <i>New Phytologist</i> , 2017 , 215, 1425-1437	9.8	35
174	Soil nutrient dynamics during podzol development under lowland temperate rain forest in New Zealand. <i>Catena</i> , 2012 , 97, 50-62	5.8	35
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172	Arbuscular mycorrhizal fungal community composition is altered by long-term litter removal but not litter addition in a lowland tropical forest. <i>New Phytologist</i> , 2017 , 214, 455-467	9.8	34
171	A climosequence of chronosequences in southwestern Australia. <i>European Journal of Soil Science</i> , 2018 , 69, 69-85	3.4	34
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167	Connectivity of overland flow by drainage network expansion in a rain forest catchment. <i>Water Resources Research</i> , 2014 , 50, 1457-1473	5.4	33
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165	Linking Manure Properties to Phosphorus Solubility in Calcareous Soils. <i>Soil Science Society of America Journal</i> , 2005 , 69, 1516-1524	2.5	32
164	Chemical nature of residual phosphorus in Andisols. <i>Geoderma</i> , 2016 , 271, 27-31	6.7	31
163	Does litter input determine carbon storage and peat organic chemistry in tropical peatlands?. <i>Geoderma</i> , 2018 , 326, 76-87	6.7	30
162	Sample Pretreatment and Phosphorus Speciation in Wetland Soils. <i>Soil Science Society of America Journal</i> , 2007 , 71, 1538-1546	2.5	30
161	Identification of inositol hexakisphosphate binding sites in soils by selective extraction and solution ³¹ P NMR spectroscopy. <i>Geoderma</i> , 2015 , 257-258, 22-28	6.7	29

160	Assessment of bioavailable organic phosphorus in tropical forest soils by organic acid extraction and phosphatase hydrolysis. <i>Geoderma</i> , 2016 , 284, 93-102	6.7	29
159	Nitrogen and phosphorus in soil solutions and drainage streams in Upper Teesdale, northern England: implications of organic compounds for biological nutrient limitation. <i>Science of the Total Environment</i> , 2003 , 314-316, 153-70	10.2	29
158	Quantifying Uncertainties in Sequential Chemical Extraction of Soil Phosphorus Using XANES Spectroscopy. <i>Environmental Science & Technology</i> , 2020 , 54, 2257-2267	10.3	29
157	Contrasting patterns of plant and microbial diversity during long-term ecosystem development. <i>Journal of Ecology</i> , 2019 , 107, 606-621	6	29
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152	Plants sustain the terrestrial silicon cycle during ecosystem retrogression. <i>Science</i> , 2020 , 369, 1245-1248	33.3	27
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148	Temperature response of ex-situ greenhouse gas emissions from tropical peatlands: Interactions between forest type and peat moisture conditions. <i>Geoderma</i> , 2018 , 324, 47-55	6.7	25
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146	Silicon in tropical forests: large variation across soils and leaves suggests ecological significance. <i>Biogeochemistry</i> , 2018 , 140, 161-174	3.8	25
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66	Transformation of soil organic phosphorus along the Hailuogou post-glacial chronosequence, southeastern edge of the Tibetan Plateau. <i>Geoderma</i> , 2019 , 352, 414-421	6.7	8
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20	Millennial-Scale Phosphorus Transformations during Diagenesis in a Subtropical Peatland. <i>Soil Science Society of America Journal</i> , 2014 , 78, 1087-1096	2.5	2
19	No evidence that boron influences tree species distributions in lowland tropical forests of Panama. <i>New Phytologist</i> , 2017 , 214, 108-119	9.8	2
18	Forms of organic phosphorus in wetland soils		2
17	A climosequence of chronosequences in southwestern Australia		2

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14	The Response of Litter-Associated Myxomycetes to Long-Term Nutrient Addition in a Lowland Tropical Forest. <i>Journal of Eukaryotic Microbiology</i> , 2019 , 66, 757-770	3.6	1
13	Response to Comment on "The Chemical Nature of Phosphorus in Subtropical Lake Sediments" by Kenney et al.. <i>Aquatic Geochemistry</i> , 2015 , 21, 7-9	1.7	1
12	Influence of pH and redox on mobilization of inositol hexakisphosphate from oligotrophic lake sediment. <i>Biogeochemistry</i> , 2018 , 140, 15-30	3.8	1
11	Response to Comment on "Determination of neo- and d-chiro-Inositol Hexakisphosphate in Soils by Solution 31P NMR Spectroscopy" <i>Environmental Science & Technology</i> , 2012 , 46, 11480-11481	10.3	1
10	Isolation of Inositol Hexakisphosphate from Soils by Alkaline Extraction and Hypobromite Oxidation. <i>Methods in Molecular Biology</i> , 2020 , 2091, 39-46	1.4	1
9	Nutrient availability predicts multiple stem frequency, an indicator of species resprouting capacity in tropical forests. <i>Journal of Ecology</i> , 2021 , 109, 1633-1648	6	1
8	A novel technique for the pre-concentration and extraction of inositol hexakisphosphate from soil extracts with determination by phosphorus-31 nuclear magnetic resonance. <i>Journal of Environmental Quality</i> , 2002 , 31, 466-70	3.4	1
7	No Evidence that the Valuable Timber Species, <i>Dalbergia Retusa</i> , Enhances Nutrient Cycling and Uptake by Neighboring Timber Species. <i>Journal of Sustainable Forestry</i> , 1-13	1.2	0
6	Soil and microbial nutrient status are heterogeneous within an elevational belt on a neotropical mountain. <i>Pedobiologia</i> , 2020 , 83, 150689	1.7	0
5	Influence of neighbourhoods on the extent and compactness of tropical tree crowns and root systems. <i>Trees - Structure and Function</i> , 2021 , 35, 1673-1686	2.6	0
4	Abiotic contribution to phenol oxidase activity across a manganese gradient in tropical forest soils. <i>Biogeochemistry</i> , 2021 , 153, 33-45	3.8	0
3	Early historical forest clearance caused major degradation of water quality at Lake Vǿg, Denmark. <i>Anthropocene</i> , 2021 , 35, 100302	3.9	0
2	Impact of ecosystem water balance and soil parent material on silicon dynamics: insights from three long-term chronosequences. <i>Biogeochemistry</i> , 2021 , 156, 335	3.8	0
1	Novel phytase PvPHY1 from the As-hyperaccumulator <i>Pteris vittata</i> enhances P uptake and phytate hydrolysis, and inhibits As translocation in Plant. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127106	12.8	0