

# S. Joseph Wright

## 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.

312 papers	29,862 citations	91 h-index	165 g-index
341 ext. papers	34,707 ext. citations	6.8 avg, IF	7.25 L-index

#	Paper	IF	Citations
312	TRY is a global database of plant traits. <i>Global Change Biology</i> , <b>2011</b> , 17, 2905-2935	11.4	1623
311	The global spectrum of plant form and function. <i>Nature</i> , <b>2016</b> , 529, 167-71	50.4	1191
310	Light-Gap disturbances, recruitment limitation, and tree diversity in a neotropical forest. <i>Science</i> , <b>1999</b> , 283, 554-7	33.3	1101
309	Plant diversity in tropical forests: a review of mechanisms of species coexistence. <i>Oecologia</i> , <b>2002</b> , 130, 1-14	2.9	968
308	Pervasive density-dependent recruitment enhances seedling diversity in a tropical forest. <i>Nature</i> , <b>2000</b> , 404, 493-5	50.4	750
307	Averting biodiversity collapse in tropical forest protected areas. <i>Nature</i> , <b>2012</b> , 489, 290-4	50.4	686
306	The Phenology of Tropical Forests: Adaptive Significance and Consequences for Primary Consumers. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>1993</b> , 24, 353-377		679
305	Functional traits and the growth-mortality trade-off in tropical trees. <i>Ecology</i> , <b>2010</b> , 91, 3664-74	4.6	604
304	Tropical forests in a changing environment. <i>Trends in Ecology and Evolution</i> , <b>2005</b> , 20, 553-60	10.9	507
303	Plant functional traits have globally consistent effects on competition. <i>Nature</i> , <b>2016</b> , 529, 204-7	50.4	453
302	PLASTIC PHENOTYPIC RESPONSE TO LIGHT OF 16 CONGENERIC SHRUBS FROM A PANAMANIAN RAINFOREST. <i>Ecology</i> , <b>2000</b> , 81, 1925-1936	4.6	446
301	Are functional traits good predictors of demographic rates? Evidence from five neotropical forests. <i>Ecology</i> , <b>2008</b> , 89, 1908-20	4.6	444
300	Light and the Phenology of Tropical Trees. <i>American Naturalist</i> , <b>1994</b> , 143, 192-199	3.7	402
299	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , <b>2020</b> , 26, 119-188	11.4	399
298	Potassium, phosphorus, or nitrogen limit root allocation, tree growth, or litter production in a lowland tropical forest. <i>Ecology</i> , <b>2011</b> , 92, 1616-25	4.6	379
297	CTFS-ForestGEO: a worldwide network monitoring forests in an era of global change. <i>Global Change Biology</i> , <b>2015</b> , 21, 528-49	11.4	368
296	Global patterns of leaf mechanical properties. <i>Ecology Letters</i> , <b>2011</b> , 14, 301-12	10	314

295	Cloud cover limits net CO <sub>2</sub> uptake and growth of a rainforest tree during tropical rainy seasons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 572-6	11.5	309
294	The Future of Tropical Forest Species <sup>1</sup> . <i>Biotropica</i> , <b>2006</b> , 38, 287-301	2.3	304
293	Relationships between phyllosphere bacterial communities and plant functional traits in a neotropical forest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 13715-20	11.5	302
292	Multiple nutrients limit litterfall and decomposition in a tropical forest. <i>Ecology Letters</i> , <b>2008</b> , 11, 35-43	10	277
291	Relationships among ecologically important dimensions of plant trait variation in seven neotropical forests. <i>Annals of Botany</i> , <b>2007</b> , 99, 1003-15	4.1	265
290	Non-structural carbohydrate pools in a tropical forest. <i>Oecologia</i> , <b>2005</b> , 143, 11-24	2.9	260
289	GAP-DEPENDENT RECRUITMENT, REALIZED VITAL RATES, AND SIZE DISTRIBUTIONS OF TROPICAL TREES. <i>Ecology</i> , <b>2003</b> , 84, 3174-3185	4.6	256
288	Interspecific variation in primary seed dispersal in a tropical forest. <i>Journal of Ecology</i> , <b>2008</b> , 96, 653-667	6	251
287	Molybdenum limitation of symbiotic nitrogen fixation in tropical forest soils. <i>Nature Geoscience</i> , <b>2009</b> , 2, 42-45	18.3	237
286	Biodiversity meets the atmosphere: a global view of forest canopies. <i>Science</i> , <b>2003</b> , 301, 183-6	33.3	234
285	Poachers Alter Mammal Abundance, Seed Dispersal, and Seed Predation in a Neotropical Forest. <i>Conservation Biology</i> , <b>2000</b> , 14, 227-239	6	230
284	Decelerating growth in tropical forest trees. <i>Ecology Letters</i> , <b>2007</b> , 10, 461-9	10	227
283	Role of dispersal in the recruitment limitation of neotropical pioneer species. <i>Journal of Ecology</i> , <b>2002</b> , 90, 714-727	6	218
282	Partitioning of soil water among canopy trees in a seasonally dry tropical forest. <i>Oecologia</i> , <b>1999</b> , 121, 293-301	2.9	214
281	The future of tropical species in secondary forests: A quantitative review. <i>Biological Conservation</i> , <b>2009</b> , 142, 2833-2843	6.2	212
280	Long-term change in the nitrogen cycle of tropical forests. <i>Science</i> , <b>2011</b> , 334, 664-6	33.3	203
279	THE EL NIÑO SOUTHERN OSCILLATION, VARIABLE FRUIT PRODUCTION, AND FAMINE IN A TROPICAL FOREST. <i>Ecology</i> , <b>1999</b> , 80, 1632-1647	4.6	200
278	A global method for calculating plant CSR ecological strategies applied across biomes world-wide. <i>Functional Ecology</i> , <b>2017</b> , 31, 444-457	5.6	191

277	ARE LIANAS INCREASING IN IMPORTANCE IN TROPICAL FORESTS? A 17-YEAR RECORD FROM PANAMA. <i>Ecology</i> , <b>2004</b> , 85, 484-489	4.6	188
276	DOES MAMMAL COMMUNITY COMPOSITION CONTROL RECRUITMENT IN NEOTROPICAL FORESTS? EVIDENCE FROM PANAMA. <i>Ecology</i> , <b>1997</b> , 78, 941-946	4.6	185
275	The biogeography and filtering of woody plant functional diversity in North and South America. <i>Global Ecology and Biogeography</i> , <b>2012</b> , 21, 798-808	6.1	179
274	The impact of lianas on 10 years of tree growth and mortality on Barro Colorado Island, Panama. <i>Journal of Ecology</i> , <b>2010</b> , 98, 879-887	6	175
273	Meta-analysis of the effects of human disturbance on seed dispersal by animals. <i>Conservation Biology</i> , <b>2012</b> , 26, 1072-81	6	174
272	Seasonal, El Niño and longer term changes in flower and seed production in a moist tropical forest. <i>Ecology Letters</i> , <b>2006</b> , 9, 35-44	10	169
271	The decline of tree diversity on newly isolated tropical islands: A test of a null hypothesis and some implications. <i>Evolutionary Ecology</i> , <b>1993</b> , 7, 76-102	1.8	169
270	The myriad consequences of hunting for vertebrates and plants in tropical forests. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , <b>2003</b> , 6, 73-86	3	167
269	Tropical tree seedling growth responses to nitrogen, phosphorus and potassium addition. <i>Journal of Ecology</i> , <b>2012</b> , 100, 309-316	6	166
268	Decline of photosynthetic capacity with leaf age in relation to leaf longevities for five tropical canopy tree species. <i>American Journal of Botany</i> , <b>1997</b> , 84, 702-708	2.7	165
267	ANNUAL AND SPATIAL VARIATION IN SEEDFALL AND SEEDLING RECRUITMENT IN A NEOTROPICAL FOREST. <i>Ecology</i> , <b>2005</b> , 86, 848-860	4.6	161
266	Seasonal Drought and Leaf Fall in a Tropical Forest. <i>Ecology</i> , <b>1990</b> , 71, 1165-1175	4.6	160
265	Poachers and Forest Fragmentation Alter Seed Dispersal, Seed Survival, and Seedling Recruitment in the Palm <i>Attalea butyraceae</i> , with Implications for Tropical Tree Diversity1. <i>Biotropica</i> , <b>2001</b> , 33, 583-595	2.3	159
264	The Bushmeat Harvest Alters Seedling Banks by Favoring Lianas, Large Seeds, and Seeds Dispersed by Bats, Birds, and Wind. <i>Biotropica</i> , <b>2007</b> , 39, 363-371	2.3	157
263	The future of tropical species on a warmer planet. <i>Conservation Biology</i> , <b>2009</b> , 23, 1418-26	6	152
262	Phylogenetic and functional alpha and beta diversity in temperate and tropical tree communities. <i>Ecology</i> , <b>2012</b> , 93, S112-S125	4.6	152
261	Why Do Some Tropical Forests Have So Many Species of Trees?. <i>Biotropica</i> , <b>2004</b> , 36, 447-473	2.3	149
260	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> , <b>2014</b> , 117, 115-130	3.8	142

259	Phosphorus limitation, soil-borne pathogens and the coexistence of plant species in hyperdiverse forests and shrublands. <i>New Phytologist</i> , <b>2015</b> , 206, 507-21	9.8	141
258	Leaf functional traits of tropical forest plants in relation to growth form. <i>Functional Ecology</i> , <b>2007</b> , 21, 19	5.6	140
257	Why Do Some Tropical Forests Have So Many Species of Trees?1. <i>Biotropica</i> , <b>2004</b> , 36, 447	2.3	139
256	Phylogenetic Patterns among Tropical Flowering Phenologies. <i>Journal of Ecology</i> , <b>1995</b> , 83, 937	6	136
255	Temporal turnover in the composition of tropical tree communities: functional determinism and phylogenetic stochasticity. <i>Ecology</i> , <b>2012</b> , 93, 490-9	4.6	135
254	Variability in leaf optical properties of Mesoamerican trees and the potential for species classification. <i>American Journal of Botany</i> , <b>2006</b> , 93, 517-30	2.7	133
253	The future of tropical forests. <i>Annals of the New York Academy of Sciences</i> , <b>2010</b> , 1195, 1-27	6.5	132
252	Ecology. Beta diversity in tropical forests. <i>Science</i> , <b>2002</b> , 295, 636-7	33.3	131
251	Impact of elevated N input on soil N cycling and losses in old-growth lowland and montane forests in Panama. <i>Ecology</i> , <b>2010</b> , 91, 1715-29	4.6	126
250	Reproductive size thresholds in tropical trees: variation among individuals, species and forests. <i>Journal of Tropical Ecology</i> , <b>2005</b> , 21, 307-315	1.3	126
249	Flowering and fruiting phenologies of seasonal and aseasonal neotropical forests: the role of annual changes in irradiance. <i>Journal of Tropical Ecology</i> , <b>2007</b> , 23, 231-251	1.3	125
248	Coordinated changes in photosynthesis, water relations and leaf nutritional traits of canopy trees along a precipitation gradient in lowland tropical forest. <i>Oecologia</i> , <b>2004</b> , 139, 495-502	2.9	125
247	Life history trade-offs in tropical trees and lianas. <i>Ecology</i> , <b>2006</b> , 87, 1281-8	4.6	124
246	Relating belowground microbial composition to the taxonomic, phylogenetic, and functional trait distributions of trees in a tropical forest. <i>Ecology Letters</i> , <b>2015</b> , 18, 1397-405	10	121
245	Decline of photosynthetic capacity with leaf age and position in two tropical pioneer tree species. <i>American Journal of Botany</i> , <b>2002</b> , 89, 1925-32	2.7	121
244	Hunting and Plant Community Dynamics in Tropical Forests: A Synthesis and Future Directions. <i>Biotropica</i> , <b>2007</b> , 39, 385-392	2.3	120
243	The Plight of Large Animals in Tropical Forests and the Consequences for Plant Regeneration. <i>Biotropica</i> , <b>2007</b> , 39, 289-291	2.3	120
242	Seasonal drought, soil fertility and the species density of tropical forest plant communities. <i>Trends in Ecology and Evolution</i> , <b>1992</b> , 7, 260-3	10.9	120

241	Taxonomy and remote sensing of leaf mass per area (LMA) in humid tropical forests <b>2011</b> , 21, 85-98		117
240	Ecological Interpretation of Leaf Carbon Isotope Ratios: Influence of Respired Carbon Dioxide. <i>Ecology</i> , <b>1989</b> , 70, 1317-1324	4.6	117
239	Tropical Forest Litter Dynamics and Dry Season Irrigation on Barro Colorado Island, Panama. <i>Ecology</i> , <b>1995</b> , 76, 1971-1979	4.6	114
238	Variation in crown light utilization characteristics among tropical canopy trees. <i>Annals of Botany</i> , <b>2005</b> , 95, 535-47	4.1	113
237	Functional traits explain light and size response of growth rates in tropical tree species. <i>Ecology</i> , <b>2012</b> , 93, 2626-36	4.6	110
236	Functional traits as predictors of vital rates across the life cycle of tropical trees. <i>Functional Ecology</i> , <b>2016</b> , 30, 168-180	5.6	110
235	ECOLOGICAL DETERMINISM IN PLANT COMMUNITY STRUCTURE ACROSS A TROPICAL FOREST LANDSCAPE. <i>Ecology</i> , <b>2004</b> , 85, 2526-2538	4.6	105
234	Effect of Seasonal Water Availability on Phenology and the Annual Shoot Carbohydrate Cycle of Tropical Forest Shrubs. <i>Functional Ecology</i> , <b>1995</b> , 9, 518	5.6	104
233	Globally, functional traits are weak predictors of juvenile tree growth, and we do not know why. <i>Journal of Ecology</i> , <b>2015</b> , 103, 978-989	6	99
232	Tropical forest responses to increasing atmospheric CO <sub>2</sub> : current knowledge and opportunities for future research. <i>Functional Plant Biology</i> , <b>2013</b> , 40, 531-551	2.7	97
231	Immediate and long-term nitrogen oxide emissions from tropical forest soils exposed to elevated nitrogen input. <i>Global Change Biology</i> , <b>2009</b> , 15, 2049-2066	11.4	97
230	Differences in leaf traits, leaf internal structure, and spectral reflectance between two communities of lianas and trees: Implications for remote sensing in tropical environments. <i>Remote Sensing of Environment</i> , <b>2009</b> , 113, 2076-2088	13.2	97
229	Seasonal Drought and the Phenology of Understory Shrubs in a Tropical Moist Forest. <i>Ecology</i> , <b>1991</b> , 72, 1643-1657	4.6	97
228	Episodic death across species of desert shrubs. <i>Ecology</i> , <b>2007</b> , 88, 32-6	4.6	96
227	Tropical Forest Litter Decomposition under Seasonal Drought: Nutrient Release, Fungi and Bacteria. <i>Oikos</i> , <b>1994</b> , 70, 183	4	96
226	Fine-root responses to fertilization reveal multiple nutrient limitation in a lowland tropical forest. <i>Ecology</i> , <b>2015</b> , 96, 2137-46	4.6	95
225	Species-specific responses of foliar nutrients to long-term nitrogen and phosphorus additions in a lowland tropical forest. <i>Journal of Ecology</i> , <b>2014</b> , 102, 36-44	6	94
224	Seasonal patterns of carbohydrate storage in four tropical tree species. <i>Oecologia</i> , <b>2002</b> , 131, 333-342	2.9	94

223	Stem, root, and older leaf N:P ratios are more responsive indicators of soil nutrient availability than new foliage. <i>Ecology</i> , <b>2014</b> , 95, 2062-8	4.6	92
222	Are Large Predators Keystone Species in Neotropical Forests? The Evidence from Barro Colorado Island. <i>Oikos</i> , <b>1994</b> , 71, 279	4	91
221	Understanding strategies for seed dispersal by wind under contrasting atmospheric conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 19084-9	11.5	84
220	BHPMF: a hierarchical Bayesian approach to gap-filling and trait prediction for macroecology and functional biogeography. <i>Global Ecology and Biogeography</i> , <b>2015</b> , 24, 1510-1521	6.1	83
219	Operational Tree Species Mapping in a Diverse Tropical Forest with Airborne Imaging Spectroscopy. <i>PLoS ONE</i> , <b>2015</b> , 10, e0118403	3.7	83
218	Effects of Mammalian Herbivores on Plant Recruitment in Two Neotropical Forests. <i>Ecology</i> , <b>1994</b> , 75, 1829-1833	4.6	82
217	How cellulose-based leaf toughness and lamina density contribute to long leaf lifespans of shade-tolerant species. <i>New Phytologist</i> , <b>2012</b> , 195, 640-652	9.8	81
216	Soil fertility and fine root dynamics in response to 4 years of nutrient (N, P, K) fertilization in a lowland tropical moist forest, Panama. <i>Austral Ecology</i> , <b>2011</b> , 36, 433-445	1.5	81
215	Interspecific synchrony and asynchrony in the fruiting phenologies of congeneric bird-dispersed plants in Panama. <i>Journal of Tropical Ecology</i> , <b>1999</b> , 15, 213-227	1.3	81
214	Variable Responses of Lowland Tropical Forest Nutrient Status to Fertilization and Litter Manipulation. <i>Ecosystems</i> , <b>2012</b> , 15, 387-400	3.9	79
213	Drought and Irrigation Effects on Fine Root Dynamics in a Tropical Moist Forest, Panama <sup>1</sup> . <i>Biotropica</i> , <b>2001</b> , 33, 421-434	2.3	78
212	The Status of the Panama Canal Watershed and Its Biodiversity at the Beginning of the 21st Century. <i>BioScience</i> , <b>2001</b> , 51, 389	5.7	77
211	The Uncertain Future of Tropical Forest Species <sup>1</sup> . <i>Biotropica</i> , <b>2006</b> , 38, 443-445	2.3	76
210	Species with greater seed mass are more tolerant of conspecific neighbours: a key driver of early survival and future abundances in a tropical forest. <i>Ecology Letters</i> , <b>2016</b> , 19, 1071-80	10	75
209	Survival and growth of <i>Virola surinamensis</i> yearlings: Water augmentation in gap and understory. <i>Oecologia</i> , <b>1991</b> , 86, 292-297	2.9	75
208	Evaluating the success of conservation actions in safeguarding tropical forest biodiversity. <i>Conservation Biology</i> , <b>2009</b> , 23, 1448-57	6	74
207	Seasonal leaf phenotypes in the canopy of a tropical dry forest: photosynthetic characteristics and associated traits. <i>Oecologia</i> , <b>1997</b> , 109, 490-498	2.9	73
206	Intra-Archipelago Vertebrate Distributions: The Slope of the Species-Area Relation. <i>American Naturalist</i> , <b>1981</b> , 118, 726-748	3.7	72

205	The contribution of interspecific variation in maximum tree height to tropical and temperate diversity. <i>Journal of Tropical Ecology</i> , <b>2006</b> , 22, 11-24	1.3	71
204	A functional analysis of the crown architecture of tropical forest Psychotria species: do species vary in light capture efficiency and consequently in carbon gain and growth?. <i>Oecologia</i> , <b>2004</b> , 139, 163-77	2.9	71
203	General herbivore outbreak following an El Niño-related drought in a lowland Panamanian forest. <i>Journal of Tropical Ecology</i> , <b>2004</b> , 20, 625-633	1.3	71
202	Density compensation in island avifaunas. <i>Oecologia</i> , <b>1980</b> , 45, 385-389	2.9	71
201	Wet and dry tropical forests show opposite successional pathways in wood density but converge over time. <i>Nature Ecology and Evolution</i> , <b>2019</b> , 3, 928-934	12.3	70
200	Poverty and corruption compromise tropical forest reserves <b>2007</b> , 17, 1259-66		70
199	The Dispersion of Eggs by a Bruchid Beetle among Scheelea Palm Seeds and the Effect of Distance to the Parent Palm. <i>Ecology</i> , <b>1983</b> , 64, 1016-1021	4.6	70
198	Spatial heterogeneity of soil chemical properties in a lowland tropical moist forest, Panama. <i>Soil Research</i> , <b>2009</b> , 47, 674	1.8	68
197	Seed limitation in a Panamanian forest. <i>Journal of Ecology</i> , <b>2005</b> , 93, 853-862	6	68
196	Oxygen isotope ratio stratification in a tropical moist forest. <i>Oecologia</i> , <b>1989</b> , 81, 51-56	2.9	68
195	Phenological Responses to Seasonality in Tropical Forest Plants <b>1996</b> , 440-460		66
194	What makes a leaf tough? Patterns of correlated evolution between leaf toughness traits and demographic rates among 197 shade-tolerant woody species in a neotropical forest. <i>American Naturalist</i> , <b>2011</b> , 177, 800-11	3.7	65
193	Seasonal drought and dry-season irrigation influence leaf-litter nutrients and soil enzymes in a moist, lowland forest in Panama. <i>Austral Ecology</i> , <b>2004</b> , 29, 177-188	1.5	65
192	Negative density dependence of seed dispersal and seedling recruitment in a neotropical palm. <i>Ecology Letters</i> , <b>2014</b> , 17, 1111-20	10	64
191	Comparative evolutionary diversity and phylogenetic structure across multiple forest dynamics plots: a mega-phylogeny approach. <i>Frontiers in Genetics</i> , <b>2014</b> , 5, 358	4.5	62
190	Does relatedness matter? Phylogenetic density-dependent survival of seedlings in a tropical forest. <i>Ecology</i> , <b>2014</b> , 95, 940-51	4.6	61
189	Divergent drivers of leaf trait variation within species, among species, and among functional groups. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 5480-5485	11.5	59
188	Community proteogenomics reveals the systemic impact of phosphorus availability on microbial functions in tropical soil. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 499-509	12.3	58



187	Temporal coexistence mechanisms contribute to the latitudinal gradient in forest diversity. <i>Nature</i> , <b>2017</b> , 550, 105-108	50.4	58
186	The effect of climatic gradients, topographic variation and species traits on the beta diversity of rain forest trees. <i>Global Ecology and Biogeography</i> , <b>2007</b> , 16, 510-518	6.1	58
185	Plant responses to fertilization experiments in lowland, species-rich, tropical forests. <i>Ecology</i> , <b>2018</b> , 99, 1129-1138	4.6	57
184	Seedling interactions in a tropical forest in Panama. <i>Oecologia</i> , <b>2008</b> , 155, 143-50	2.9	57
183	Mechanics and chemistry of rain forest leaves: canopy and understorey compared. <i>Journal of Experimental Botany</i> , <b>2003</b> , 54, 2007-14	7	56
182	Stochastic Extinction and Reserve Size: A Focal Species Approach. <i>Oikos</i> , <b>1983</b> , 41, 466	4	56
181	Sources of variation in foliar secondary chemistry in a tropical forest tree community. <i>Ecology</i> , <b>2017</b> , 98, 616-623	4.6	55
180	Seed predation during general flowering events of varying magnitude in a Malaysian rain forest. <i>Journal of Ecology</i> , <b>2007</b> , 95, 818-827	6	55
179	Positive effects of neighborhood complementarity on tree growth in a Neotropical forest. <i>Ecology</i> , <b>2016</b> , 97, 776-85	4.6	54
178	THE EFFECTS OF NEIGHBORS ON THE DEMOGRAPHY OF A DOMINANT DESERT SHRUB (AMBROSIA DUMOSA). <i>Ecological Monographs</i> , <b>2001</b> , 71, 491-509	9	54
177	Comparative physiology and demography of three Neotropical forest shrubs: alternative shade-adaptive character syndromes. <i>Oecologia</i> , <b>1993</b> , 96, 526-536	2.9	54
176	Resource acquisition and reproductive strategies of tropical forest in response to the El Niño-Southern Oscillation. <i>Nature Communications</i> , <b>2018</b> , 9, 913	17.4	52
175	An ecosystem report on the Panama Canal: monitoring the status of the forest communities and the watershed. <i>Environmental Monitoring and Assessment</i> , <b>2002</b> , 80, 65-95	3.1	52
174	Plant physiological ecology of tropical forest canopies. <i>Trends in Ecology and Evolution</i> , <b>1996</b> , 11, 408-12	10.9	52
173	Wood traits related to size and life history of trees in a Panamanian rainforest. <i>New Phytologist</i> , <b>2017</b> , 213, 170-180	9.8	50
172	Intrinsic water-use efficiency and heterotrophic investment in tropical leaf growth of two Neotropical pioneer tree species as estimated from $\delta^{13}C$ values. <i>New Phytologist</i> , <b>2001</b> , 152, 267-281	9.8	49
171	Coexistence in tropical forests through asynchronous variation in annual seed production. <i>Ecology</i> , <b>2012</b> , 93, 2073-84	4.6	48
170	Bias in the detection of negative density dependence in plant communities. <i>Ecology Letters</i> , <b>2019</b> , 22, 1923-1939	10	47

169	Reproductive ecology of 21 coexisting Psychotria species (Rubiaceae): when is heterostyly lost?. <i>Biological Journal of the Linnean Society</i> , <b>2007</b> , 93, 125-134	1.9	47
168	Role of tree size in moist tropical forest carbon cycling and water deficit responses. <i>New Phytologist</i> , <b>2018</b> , 219, 947-958	9.8	47
167	Beyond the fast-slow continuum: demographic dimensions structuring a tropical tree community. <i>Ecology Letters</i> , <b>2018</b> , 21, 1075-1084	10	47
166	Clouds and temperature drive dynamic changes in tropical flower production. <i>Nature Climate Change</i> , <b>2013</b> , 3, 838-842	21.4	46
165	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> , <b>2013</b> , 77, 1357-1369	2.5	46
164	Nutrient Availability in Tropical Rain Forests: The Paradigm of Phosphorus Limitation. <i>Tree Physiology</i> , <b>2016</b> , 261-273		45
163	Drought acclimation among tropical forest shrubs (Psychotria, Rubiaceae). <i>Oecologia</i> , <b>1992</b> , 89, 457-463	2.9	45
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160	Tri-trophic interactions affect density dependence of seed fate in a tropical forest palm. <i>Ecology Letters</i> , <b>2011</b> , 14, 1093-100	10	42
159	Foliar respiration and its temperature sensitivity in trees and lianas: in situ measurements in the upper canopy of a tropical forest. <i>Tree Physiology</i> , <b>2013</b> , 33, 505-15	4.2	40
158	Historical, Demographic, and Economic Correlates of Land-Use Change in the Republic of Panama. <i>Ecology and Society</i> , <b>2008</b> , 13,	4.1	40
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155	The carbon sink in intact tropical forests. <i>Global Change Biology</i> , <b>2013</b> , 19, 337-9	11.4	39
154	Strong radial variation in wood density follows a uniform pattern in two neotropical rain forests. <i>Functional Ecology</i> , <b>2013</b> , 27, 684-692	5.6	39
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44	The Effects of Neighbors on the Demography of a Dominant Desert Shrub ( <i>Ambrosia dumosa</i> ). <i>Ecological Monographs</i> , <b>2001</b> , 71, 491	9	9



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17	No evidence that boron influences tree species distributions in lowland tropical forests of Panama. <i>New Phytologist</i> , <b>2017</b> , 214, 108-119	9.8	2
16	Functional biogeography of Neotropical moist forests: Trait–climate relationships and assembly patterns of tree communities. <i>Global Ecology and Biogeography</i> , <b>2021</b> , 30, 1430-1446	6.1	2
15	Nutrient limitation of plant reproduction in a tropical moist forest. <i>Ecology</i> , <b>2021</b> , 102, e03469	4.6	2
14	Limits to reproduction and seed size-number trade-offs that shape forest dominance and future recovery.. <i>Nature Communications</i> , <b>2022</b> , 13, 2381	17.4	2
13	The Response of Litter-Associated Myxomycetes to Long-Term Nutrient Addition in a Lowland Tropical Forest. <i>Journal of Eukaryotic Microbiology</i> , <b>2019</b> , 66, 757-770	3.6	1
12	Drought and Irrigation Effects on Fine Root Dynamics in a Tropical Moist Forest, Panama1. <i>Biotropica</i> , <b>2001</b> , 33, 421	2.3	1
11	Birds Form Tightly Structured Communities in the Pearl Archipelago, Panama. <i>Ornithological Monographs</i> , <b>1985</b> , 798-812		1
10	Global patterns and predictors of soil microbial biomass carbon, nitrogen, and phosphorus in terrestrial ecosystems. <i>Catena</i> , <b>2022</b> , 211, 106037	5.8	1
9	Tradeoffs and Synergies in Tropical Forest Root Traits and Dynamics for Nutrient and Water Acquisition: Field and Modeling Advances. <i>Frontiers in Forests and Global Change</i> , <b>2021</b> , 4,	3.7	1
8	Comparative metabolomics of forest communities: Species differences in foliar chemistry are greater in the tropics		1

7	The Smithsonian Tropical Research Institute: A century of ecological and applied research. <i>Biological Conservation</i> , <b>2020</b> , 252, 108858	6.2	1
6	Hydraulic architecture explains species moisture dependency but not mortality rates across a tropical rainfall gradient. <i>Biotropica</i> , <b>2021</b> , 53, 1213-1225	2.3	1
5	Host specificity and interaction networks of insects feeding on seeds and fruits in tropical rainforests. <i>Oikos</i> , <b>2021</b> , 130, 1462-1476	4	1
4	Simulating environmentally sensitive tree recruitment in vegetation demographic models.. <i>New Phytologist</i> , <b>2022</b> ,	9.8	1
3	2005 Honorary Fellows. <i>Biotropica</i> , <b>2005</b> , 37, 710-710	2.3	
2	Plastic Deformation of Single Metallic Crystals. <i>Nature</i> , <b>1926</b> , 117, 891-892	50.4	
1	Biogeochemistry and forest composition shape nesting patterns of a dominant canopy ant. <i>Oecologia</i> , <b>2019</b> , 189, 221-230	2.9	