

# Louis Stephen Santiago

## 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.

96  
papers

6,662  
citations

33  
h-index

81  
g-index

99  
ext. papers

7,744  
ext. citations

4.4  
avg, IF

5.74  
L-index

#	Paper	IF	Citations
96	Plant species traits are the predominant control on litter decomposition rates within biomes worldwide. <i>Ecology Letters</i> , <b>2008</b> , 11, 1065-71	10	1605
95	Leaf photosynthetic traits scale with hydraulic conductivity and wood density in Panamanian forest canopy trees. <i>Oecologia</i> , <b>2004</b> , 140, 543-50	2.9	389
94	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
93	Nighttime transpiration in woody plants from contrasting ecosystems. <i>Tree Physiology</i> , <b>2007</b> , 27, 561-75	4.2	318
92	Global patterns of leaf mechanical properties. <i>Ecology Letters</i> , <b>2011</b> , 14, 301-12	10	314
91	Why are non-photosynthetic tissues generally C enriched compared with leaves in C plants? Review and synthesis of current hypotheses. <i>Functional Plant Biology</i> , <b>2009</b> , 36, 199-213	2.7	304
90	A review of volatile analytical methods for determining the botanical origin of honey. <i>Food Chemistry</i> , <b>2007</b> , 103, 1032-1043	8.5	182
89	Global effects of soil and climate on leaf photosynthetic traits and rates. <i>Global Ecology and Biogeography</i> , <b>2015</b> , 24, 706-717	6.1	179
88	Tropical tree seedling growth responses to nitrogen, phosphorus and potassium addition. <i>Journal of Ecology</i> , <b>2012</b> , 100, 309-316	6	166
87	Leaf functional traits of tropical forest plants in relation to growth form. <i>Functional Ecology</i> , <b>2007</b> , 21, 19	5.6	140
86	Fog interception by <i>Sequoia sempervirens</i> (D. Don) crowns decouples physiology from soil water deficit. <i>Plant, Cell and Environment</i> , <b>2009</b> , 32, 882-92	8.4	134
85	Crassulacean acid metabolism and epiphytism linked to adaptive radiations in the Orchidaceae. <i>Plant Physiology</i> , <b>2009</b> , 149, 1838-47	6.6	128
84	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
83	Water relations of evergreen and drought-deciduous trees along a seasonally dry tropical forest chronosequence. <i>Oecologia</i> , <b>2010</b> , 164, 881-90	2.9	108
82	Extending the leaf economics spectrum to decomposition: evidence from a tropical forest. <i>Ecology</i> , <b>2007</b> , 88, 1126-31	4.6	108
81	Coordination of stem and leaf hydraulic conductance in southern California shrubs: a test of the hydraulic segmentation hypothesis. <i>New Phytologist</i> , <b>2014</b> , 203, 842-50	9.8	104
80	Distribution of crassulacean acid metabolism in orchids of Panama: evidence of selection for weak and strong modes. <i>Functional Plant Biology</i> , <b>2005</b> , 32, 397-407	2.7	98

79	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
78	Transpiration and forest structure in relation to soil waterlogging in a Hawaiian montane cloud forest. <i>Tree Physiology</i> , <b>2000</b> , 20, 673-681	4.2	87
77	Multiple strategies for drought survival among woody plant species. <i>Functional Ecology</i> , <b>2016</b> , 30, 517-526	3.6	85
76	Global-scale environmental control of plant photosynthetic capacity <b>2015</b> , 25, 2349-65		78
75	Can vessel dimension explain tolerance toward fungal vascular wilt diseases in woody plants? Lessons from Dutch elm disease and esca disease in grapevine. <i>Frontiers in Plant Science</i> , <b>2014</b> , 5, 253	6.2	76
74	Nutrient cycling and plant-soil feedbacks along a precipitation gradient in lowland Panama. <i>Journal of Tropical Ecology</i> , <b>2005</b> , 21, 461-470	1.3	74
73	Oceanographic anomalies and sea-level rise drive mangroves inland in the Pacific coast of Mexico. <i>Journal of Vegetation Science</i> , <b>2011</b> , 22, 143-151	3.1	63
72	Biological soil crust community types differ in key ecological functions. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 65, 168-171	7.5	60
71	Nutrients limit photosynthesis in seedlings of a lowland tropical forest tree species. <i>Oecologia</i> , <b>2012</b> , 168, 311-9	2.9	58
70	Coordination and trade-offs among hydraulic safety, efficiency and drought avoidance traits in Amazonian rainforest canopy tree species. <i>New Phytologist</i> , <b>2018</b> , 218, 1015-1024	9.8	57
69	High N, dry: Experimental nitrogen deposition exacerbates native shrub loss and nonnative plant invasion during extreme drought. <i>Global Change Biology</i> , <b>2017</b> , 23, 4333-4345	11.4	48
68	Use of Coarse Woody Debris by the Plant Community of a Hawaiian Montane Cloud Forest1. <i>Biotropica</i> , <b>2000</b> , 32, 633	2.3	46
67	Climate and soils together regulate photosynthetic carbon isotope discrimination within C3 plants worldwide. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 1056-1067	6.1	45
66	The incidence of crassulacean acid metabolism in Orchidaceae derived from carbon isotope ratios: a checklist of the flora of Panama and Costa Rica. <i>Botanical Journal of the Linnean Society</i> , <b>2010</b> , 163, 194-222	2.2	44
65	Leaf productivity along a precipitation gradient in lowland Panama: patterns from leaf to ecosystem. <i>Trees - Structure and Function</i> , <b>2005</b> , 19, 349-356	2.6	42
64	Strong phylogenetic signals and phylogenetic niche conservatism in ecophysiological traits across divergent lineages of Magnoliaceae. <i>Scientific Reports</i> , <b>2015</b> , 5, 12246	4.9	37
63	Stem photosynthesis and hydraulics are coordinated in desert plant species. <i>New Phytologist</i> , <b>2017</b> , 216, 1119-1129	9.8	33
62	Correlated Evolution of Leaf Shape and Physiology in the Woody Sonchus Alliance (Asteraceae: Sonchinae) in Macaronesia. <i>International Journal of Plant Sciences</i> , <b>2009</b> , 170, 83-92	2.6	32

61	Lianas always outperform tree seedlings regardless of soil nutrients: results from a long-term fertilization experiment. <i>Ecology</i> , <b>2015</b> , 96, 1866-76	4.6	31
60	Stomatal behaviour and stem xylem traits are coordinated for woody plant species under exceptional drought conditions. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 2617-2626	8.4	30
59	Biogeomorphology of a Mojave Desert landscape [Configurations and feedbacks of abiotic and biotic land surfaces during landform evolution. <i>Geomorphology</i> , <b>2014</b> , 206, 23-36	4.3	29
58	Forest dynamics of a subtropical monsoon forest in Dinghushan, China: recruitment, mortality and the pace of community change. <i>Journal of Tropical Ecology</i> , <b>2013</b> , 29, 131-145	1.3	29
57	PrometheusWiki Gold Leaf Protocol: gas exchange using LI-COR 6400. <i>Functional Plant Biology</i> , <b>2014</b> , 41, 223-226	2.7	29
56	Belowground nitrogen dynamics in relation to hurricane damage along a tropical dry forest chronosequence. <i>Biogeochemistry</i> , <b>2010</b> , 98, 89-100	3.8	27
55	Reconciling seasonal hydraulic risk and plant water use through probabilistic soil-plant dynamics. <i>Global Change Biology</i> , <b>2017</b> , 23, 3758-3769	11.4	26
54	A Test of Gas Exchange Measurements on Excised Canopy Branches of Ten Tropical Tree Species. <i>Photosynthetica</i> , <b>2003</b> , 41, 343-347	2.2	26
53	Rapid recovery of photosynthesis and water relations following soil drying and re-watering is related to the adaptation of desert shrub <i>Ephedra alata</i> subsp. <i>alenda</i> (Ephedraceae) to arid environments. <i>Environmental and Experimental Botany</i> , <b>2015</b> , 109, 113-121	5.9	25
52	Source water, phenology and growth of two tropical dry forest tree species growing on shallow karst soils. <i>Trees - Structure and Function</i> , <b>2013</b> , 27, 1297-1307	2.6	25
51	Plant hydraulic responses to long-term dry season nitrogen deposition alter drought tolerance in a Mediterranean-type ecosystem. <i>Oecologia</i> , <b>2016</b> , 181, 721-31	2.9	25
50	Trade-offs between water transport capacity and drought resistance in neotropical canopy liana and tree species. <i>Tree Physiology</i> , <b>2017</b> , 37, 1404-1414	4.2	24
49	Nutrient limitation of eco-physiological processes in tropical trees. <i>Trees - Structure and Function</i> , <b>2015</b> , 29, 1291-1300	2.6	22
48	Drought Survival Strategies of Tropical Trees. <i>Tree Physiology</i> , <b>2016</b> , 243-258		21
47	Functional strategies of tropical dry forest plants in relation to growth form and isotopic composition. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 115006	6.2	20
46	Atlantic forest and leaf traits: an overview. <i>Trees - Structure and Function</i> , <b>2019</b> , 33, 1535-1547	2.6	19
45	Exotic annuals reduce soil heterogeneity in coastal sage scrub soil chemical and biological characteristics. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 58, 70-81	7.5	19
44	Determinants of change in subtropical tree diameter growth with ontogenetic stage. <i>Oecologia</i> , <b>2014</b> , 175, 1315-24	2.9	18

43	Plant water status and hydraulic conductance during flowering in the southern California coastal sage shrub <i>Salvia mellifera</i> (Lamiaceae). <i>American Journal of Botany</i> , <b>2011</b> , 98, 1286-92	2.7	18
42	Isotopic composition of leaf carbon ( $\delta^{13}\text{C}$ ) and nitrogen ( $\delta^{15}\text{N}$ ) of deciduous and evergreen understorey trees in two tropical Brazilian Atlantic forests. <i>Journal of Tropical Ecology</i> , <b>2018</b> , 34, 145-156 <sup>1,3</sup>		17
41	Using leaf $\delta^{13}\text{C}$ and photosynthetic parameters to understand acclimation to irradiance and leaf age effects during tropical forest regeneration. <i>Forest Ecology and Management</i> , <b>2016</b> , 379, 50-60	3.9	17
40	Testing the 'microbubble effect' using the Cavitron technique to measure xylem water extraction curves. <i>AoB PLANTS</i> , <b>2016</b> , 8,	2.9	17
39	Consequences of light absorptance in calculating electron transport rate of desert and succulent plants. <i>Photosynthetica</i> , <b>2011</b> , 49, 195-200	2.2	16
38	Morphological and Physiological Responses of Hawaiian Hibiscus tiliaceus Populations to Light and Salinity. <i>International Journal of Plant Sciences</i> , <b>2000</b> , 161, 99-106	2.6	16
37	Large hydraulic safety margins protect Neotropical canopy rainforest tree species against hydraulic failure during drought. <i>Annals of Forest Science</i> , <b>2019</b> , 76, 1	3.1	15
36	Carbon Allocation and Water Relations of Lianas Versus Trees. <i>Tree Physiology</i> , <b>2016</b> , 103-124		13
35	Can Growth Form Classification Predict Litter Nutrient Dynamics and Decomposition Rates in Lowland Wet Forest?. <i>Biotropica</i> , <b>2010</b> , 42, 72-79	2.3	13
34	A unique web resource for physiology, ecology and the environmental sciences: PrometheusWiki. <i>Functional Plant Biology</i> , <b>2010</b> , 37, 687	2.7	13
33	Facing Shortage or Excessive Light: How Tropical and Subtropical Trees Adjust Their Photosynthetic Behavior and Life History Traits to a Dynamic Forest Environment. <i>Tree Physiology</i> , <b>2016</b> , 319-336		12
32	Ecological Role of Hybridization in Adaptive Radiations: A Case Study in the <i>Dubautia arborea</i> / <i>Dubautia ciliolata</i> (Asteraceae) Complex. <i>International Journal of Plant Sciences</i> , <b>2013</b> , 174, 749-759 <sup>2,6</sup>		12
31	Hydraulic constraints on photosynthesis in subtropical evergreen broad leaf forest and pine woodland trees of the Florida Everglades. <i>Trees - Structure and Function</i> , <b>2010</b> , 24, 471-478	2.6	12
30	Nonparametric tests for homogeneity of species assemblages: a data depth approach. <i>Biometrics</i> , <b>2011</b> , 67, 1481-8	1.8	11
29	The physiological response of Hass avocado to salinity as influenced by rootstock. <i>Scientia Horticulturae</i> , <b>2019</b> , 256, 108629	4.1	10
28	Modeling of xylem vessel occlusion in grapevine. <i>Tree Physiology</i> , <b>2019</b> , 39, 1438-1445	4.2	9
27	Extractable nitrogen and microbial community structure respond to grassland restoration regardless of historical context and soil composition. <i>AoB PLANTS</i> , <b>2015</b> , 7,	2.9	9
26	Compensatory growth responses to defoliation and light availability in two native Mexican woody plant species. <i>Journal of Tropical Ecology</i> , <b>2010</b> , 26, 163-171	1.3	9

25	Environmental regulation of carbon isotope composition and crassulacean acid metabolism in three plant communities along a water availability gradient. <i>Oecologia</i> , <b>2010</b> , 164, 871-80	2.9	9
24	Evaluation of leaf carbon isotopes and functional traits in avocado reveals water-use efficient cultivars. <i>Agriculture, Ecosystems and Environment</i> , <b>2018</b> , 263, 60-66	5.7	9
23	Physiological implications of the liana growth form <b>2014</b> , 288-298		8
22	Use of Coarse Woody Debris by the Plant Community of a Hawaiian Montane Cloud Forest1. <i>Biotropica</i> , <b>2006</b> , 32, 633-641	2.3	8
21	A comparison of sap flow measurements and potometry in two tropical lowland tree species with contrasting wood properties. <i>Revista De Biologia Tropical</i> , <b>2006</b> , 54, 73-81	1.3	8
20	Is Photosynthesis Nutrient Limited in Tropical Trees?. <i>Tree Physiology</i> , <b>2016</b> , 299-315		7
19	Light use efficiency of California redwood forest understory plants along a moisture gradient. <i>Oecologia</i> , <b>2014</b> , 174, 351-63	2.9	7
18	Towards a statistically robust determination of minimum water potential and hydraulic risk in plants. <i>New Phytologist</i> , <b>2021</b> , 232, 404-417	9.8	7
17	Unraveling the relative role of light and water competition between lianas and trees in tropical forests: A vegetation model analysis. <i>Journal of Ecology</i> , <b>2021</b> , 109, 519-540	6	6
16	Carbon stable isotopic composition of soluble sugars in Tillandsia epiphytes varies in response to shifts in habitat. <i>Oecologia</i> , <b>2010</b> , 163, 583-90	2.9	5
15	Functional traits of leaves and photosynthetic stems of species from a sarcocaulous scrub in the southern Baja California Peninsula. <i>American Journal of Botany</i> , <b>2020</b> , 107, 1410-1422	2.7	5
14	Physiological Responses of Onion Varieties to varying Photoperiod and Temperature Regimes. <i>Agriculture (Switzerland)</i> , <b>2019</b> , 9, 214	3	4
13	Bayesian inference of hydraulic properties in and around a white fir using a process-based ecohydrologic model. <i>Environmental Modelling and Software</i> , <b>2019</b> , 115, 76-85	5.2	4
12	Orchard establishment, precocity, and eco-physiological traits of several pomegranate cultivars. <i>Scientia Horticulturae</i> , <b>2018</b> , 235, 221-227	4.1	4
11	Costs and benefits of photosynthetic stems in desert species from southern California. <i>Functional Plant Biology</i> , <b>2019</b> , 46, 175-186	2.7	4
10	Hydraulic traits of Neotropical canopy liana and tree species across a broad range of wood density: implications for predicting drought mortality with models. <i>Tree Physiology</i> , <b>2021</b> , 41, 24-34	4.2	4
9	Traits uncover quasi-neutral community assembly in a coastal heath vegetation. <i>Journal of Plant Ecology</i> , <b>2019</b> , 12, 703-712	1.7	3
8	Large variation in availability of Maya food plant sources during ancient droughts.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	3

7				2
6	Species-specific performance and trade-off between growth and survival in the early-successional light-demanding group. <i>Photosynthetica</i> , <b>2021</b> , 59, 203-214		2.2	2
5	Effects of temperature, soil moisture and light intensity on the temporal pattern of floral gene expression and flowering of avocado buds ( <i>Persea americana</i> cv. Hass). <i>Scientia Horticulturae</i> , <b>2021</b> , 280, 109940		4.1	1
4	Shade tree species affect gas exchange and hydraulic conductivity of cacao cultivars in an agroforestry system. <i>Tree Physiology</i> , <b>2021</b> , 41, 240-253		4.2	1
3	Contrasting physiological responses of ozone-tolerant <i>Phaseolus vulgaris</i> and <i>Nicotiana tobaccum</i> varieties to ozone and nitric acid. <i>Environmental Sciences: Processes and Impacts</i> , <b>2014</b> , 16, 2488-95		4.3	0
2	Small biodiversity effects on leaf litter production of a seasonal heath vegetation. <i>Journal of Vegetation Science</i> , <b>2020</b> , 31, 877-886		3.1	0
1	Going underground: new approaches to assess dynamic root behaviour during drought. <i>New Phytologist</i> , <b>2020</b> , 225, 599-600		9.8	