Lucas Cr Silva

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Carbon stocks in umbric ferralsols driven by plant productivity and geomorphic processes, not by mineral protection. Earth Surface Processes and Landforms, 2022, 47, 491-508.	2.5	5
2	Reply to: Evidence confirms an anthropic origin of Amazonian Dark Earths. Nature Communications, 2022, 13, .	12.8	2
3	A generalizable framework for enhanced natural climate solutions. Plant and Soil, 2022, 479, 3-24.	3.7	6
4	Atmospheric factors outweigh species traits and soil properties in explaining spatiotemporal variation in water-use efficiency of tropical and subtropical forest species. Agricultural and Forest Meteorology, 2022, 323, 109056.	4.8	1
5	Soil-plant-atmosphere interactions: structure, function, and predictive scaling for climate change mitigation. Plant and Soil, 2021, 461, 5-27.	3.7	58
6	Sixteen hundred years of increasing tree cover prior to modern deforestation in Southern Amazon and Central Brazilian savannas. Global Change Biology, 2021, 27, 136-150.	9.5	21
7	Beyond total carbon: conversion of amazon forest to pasture alters indicators of soil C cycling. Biogeochemistry, 2021, 152, 179-194.	3.5	12
8	A new hypothesis for the origin of Amazonian Dark Earths. Nature Communications, 2021, 12, 127.	12.8	21
9	Climate-induced reversal of tree growth patterns at a tropical treeline. Science Advances, 2021, 7, .	10.3	19
10	Long-term crop rotation diversification enhances maize drought resistance through soil organic matter. Environmental Research Letters, 2021, 16, 084067.	5.2	37
11	A record of vapour pressure deficit preserved in wood and soil across biomes. Scientific Reports, 2021, 11, 662.	3.3	15
12	A State Factor Model for Ecosystem Carbon–Water Relations. Trends in Plant Science, 2020, 25, 652-660.	8.8	12
13	From Trees to Ecosystems: Spatiotemporal Scaling of Climatic Impacts on Montane Landscapes Using Dendrochronological, Isotopic, and Remotely Sensed Data. Global Biogeochemical Cycles, 2020, 34, e2019GB006325.	4.9	16
14	Fire Affects Asymbiotic Nitrogen Fixation in Southern Amazon Forests. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005383.	3.0	9
15	Litter and soil biogeochemical parameters as indicators of sustainable logging in Central Amazonia. Science of the Total Environment, 2020, 714, 136780.	8.0	9
16	The oldest extant tropical peatland in the world: a major carbon reservoir for at least 47 000 years. Environmental Research Letters, 2020, 15, 114027.	5.2	18
17	Better estimates of soil carbon from geographical data: a revised global approach. Mitigation and Adaptation Strategies for Global Change, 2019, 24, 355-372.	2.1	26
18	Effects of ferric sulfate and polyaluminum chloride coagulation enhanced treatment wetlands on Typha growth, soil and water chemistry. Science of the Total Environment, 2019, 648, 116-124.	8.0	21

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19	Exposure to Light Elicits a Spectrum of Chemical Changes in Soil. Journal of Geophysical Research F: Earth Surface, 2019, 124, 2288-2310.	2.8	4
20	Two Decades of Experimental Manipulation Reveal Potential for Enhanced Biomass Accumulation and Water Use Efficiency in Ponderosa Pine Plantations Across Climate Gradients. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2321-2334.	3.0	12
21	Coping With Extreme Events: Growth and Waterâ€Use Efficiency of Trees in Western Mexico During the Driest and Wettest Periods of the Past One Hundred Sixty Years. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3419-3431.	3.0	16
22	North America's oldest boreal trees are more efficient water users due to increased [CO ₂], but do not grow faster. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2749-2754.	7.1	76
23	Reconstruction of Holocene coupling between the South American Monsoon System and local moisture variability from speleothem Ĩ´18O and 87Sr/86Sr records. Quaternary Science Reviews, 2019, 210, 51-63.	3.0	22
24	Interactive effects of land-use change and topography on asymbiotic nitrogen fixation in the Brazilian Atlantic Forest. Biogeochemistry, 2019, 142, 137-153.	3.5	15
25	Linking Remote Sensing and Dendrochronology to Quantify Climateâ€Induced Shifts in Highâ€Elevation Forests Over Space and Time. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 166-183.	3.0	48
26	Integrating effects of species composition and soil properties to predict shifts in montane forest carbon–water relations. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4219-E4226.	7.1	58
27	Soil–Plant–Atmosphere Interactions. Developments in Soil Science, 2018, , 29-60.	0.5	4
28	Predictable Oxygen Isotope Exchange Between Plant Lipids and Environmental Water: Implications for Ecosystem Water Balance Reconstruction. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2941-2954.	3.0	4
29	Assessing response of local moisture conditions in central Brazil to variability in regional monsoon intensity using speleothem 87Sr/86Sr values. Earth and Planetary Science Letters, 2017, 463, 310-322.	4.4	48
30	Nitrogen Fertilization Had No Effect on CH ₄ and N ₂ O Emissions in Rice Planted in Rewetted Peatlands. Soil Science Society of America Journal, 2017, 81, 224-232.	2.2	11
31	Carbon sequestration beyond tree longevity. Science, 2017, 355, 1141-1141.	12.6	7
32	Impact of root growth and hydraulic conductance on canopy carbon-water relations of young walnut trees (Juglans regia L.) under drought. Scientia Horticulturae, 2017, 226, 342-352.	3.6	20
33	Temperature gradients assist carbohydrate allocation within trees. Scientific Reports, 2017, 7, 3265.	3.3	47
34	Plant-microbe interactions regulate carbon and nitrogen accumulation in forest soils. Forest Ecology and Management, 2017, 384, 415-423.	3.2	26
35	Expanding the geography of evapotranspiration: An improved method to quantify land-to-air water fluxes in tropical and subtropical regions. PLoS ONE, 2017, 12, e0180055.	2.5	6
36	Bark water uptake promotes localized hydraulic recovery in coastal redwood crown. Plant, Cell and Environment, 2016, 39, 320-328.	5.7	84

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37	Climatic sensitivity, waterâ€use efficiency, and growth decline in boreal jack pine (<i>Pinus) Tj ETQq1 1 0.784314 121, 2761-2774.</i>	rgBT /Ove 3.0	rlock 10 Tf 26
38	Tree growth acceleration and expansion of alpine forests: The synergistic effect of atmospheric and edaphic change. Science Advances, 2016, 2, e1501302.	10.3	74
39	How are soil carbon and tropical biodiversity related?. Environmental Conservation, 2016, 43, 231-241.	1.3	37
40	Survival and growth of native Tachigali vulgaris and exotic Eucalyptus urophylla×Eucalyptus grandis trees in degraded soils with biochar amendment in southern Amazonia. Forest Ecology and Management, 2016, 368, 173-182.	3.2	26
41	Isotopic and nutritional evidence for species―and siteâ€specific responses to N deposition and elevated CO ₂ in temperate forests. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1110-1123.	3.0	32
42	Carbon dioxide level and form of soil nitrogen regulate assimilation of atmospheric ammonia in young trees. Scientific Reports, 2015, 5, 13141.	3.3	17
43	Quantifying the impact of drought on soil-plant interactions: a seasonal analysis of biotic and abiotic controls of carbon and nutrient dynamics in high-altitudinal grasslands. Plant and Soil, 2015, 389, 59-71.	3.7	23
44	Seasonal variation in groundwater depth does not explain structure and diversity of tropical savannas. Journal of Vegetation Science, 2015, 26, 404-406.	2.2	4
45	From air to land: understanding water resources through plant-based multidisciplinary research. Trends in Plant Science, 2015, 20, 399-401.	8.8	16
46	Ironâ€mediated stabilization of soil carbon amplifies the benefits of ecological restoration in degraded lands. Ecological Applications, 2015, 25, 1226-1234.	3.8	37
47	Characterization of Winery Wastewater for Reuse in California. American Journal of Enology and Viticulture, 2015, 66, 302-310.	1.7	20
48	Productivity-efficiency tradeoffs in tropical gallery forest-savanna transitions: linking plant and soil processes through litter input and composition. Plant Ecology, 2015, 216, 775-787.	1.6	35
49	Climate warming alters nitrogen dynamics and total non-structural carbohydrate accumulations of perennial herbs of distinctive functional groups during the plant senescence in autumn in an alpine meadow of the Tibetan Plateau, China. Agricultural and Forest Meteorology, 2015, 200, 21-29.	4.8	38
50	Carbon isotopic signatures of soil organic matter correlate with leaf area index across woody biomes. Journal of Ecology, 2014, 102, 1606-1611.	4.0	21
51	Understory species regulate litter decomposition and accumulation of C and N in forest soils: A long-term dual-isotope experiment. Forest Ecology and Management, 2014, 329, 318-327.	3.2	53
52	Cerrado vegetation and global change: the role of functional types, resource availability and disturbance in regulating plant community responses to rising CO2 levels and climate warming. Theoretical and Experimental Plant Physiology, 2014, 26, 19-38.	2.4	91
53	Using multielement isotopic analysis to decipher drought impacts and adaptive management in ancient agricultural systems. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4807-8.	7.1	15
54	Importance of climate-driven forest–savanna biome shifts in anthropological and ecological research. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3831-2.	7.1	18

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55	Natural history and evolution of the Kwongan – a global biodiversity hotspot. Trends in Plant Science, 2014, 19, 686.	8.8	0
56	Do woody and herbaceous species compete for soil water across topographic gradients? Evidence for niche partitioning in a Neotropical savanna. South African Journal of Botany, 2014, 91, 14-18.	2.5	39
57	Probing for the influence of atmospheric <scp>CO₂</scp> and climate change on forest ecosystems across biomes. Global Ecology and Biogeography, 2013, 22, 83-92.	5.8	157
58	Can savannas become forests? A coupled analysis of nutrient stocks and fire thresholds in central Brazil. Plant and Soil, 2013, 373, 829-842.	3.7	132
59	The scientific value of the largest remaining old-growth red pine forests in North America. Biodiversity and Conservation, 2013, 22, 1847-1861.	2.6	9
60	Unprecedented carbon accumulation in mined soils: the synergistic effect of resource input and plant species invasion. Ecological Applications, 2013, 23, 1345-1356.	3.8	72
61	Estimates of soil carbon concentration in tropical and temperate forest and woodland from available <scp>GIS</scp> data on three continents. Global Ecology and Biogeography, 2013, 22, 461-469.	5.8	24
62	Growth decline and divergent tree ring isotopic composition (δ ¹³ C and δ ¹⁸ O) contradict predictions of <scp>CO</scp> ₂ stimulation in high altitudinal forests. Global Change Biology, 2013, 19, 1748-1758.	9.5	79
63	Use of Chemical and Physical Characteristics To Investigate Trends in Biochar Feedstocks. Journal of Agricultural and Food Chemistry, 2013, 61, 2196-2204.	5.2	333
64	Old Trees: Large and Small. Science, 2013, 339, 904-905.	12.6	10
65	Testing protocol ensures the authenticity of organic fertilizers. California Agriculture, 2013, 67, 210-216.	0.8	7
66	Historical links and new frontiers in the study of forest-atmosphere interactions. Community Ecology, 2013, 14, 208-218.	0.9	17
67	Quantifying the Effects of Green Waste Compost Application, Water Content and Nitrogen Fertilization on Nitrous Oxide Emissions in 10 Agricultural Soils. Journal of Environmental Quality, 2013, 42, 912-918.	2.0	24
68	Explaining Global Increases in Water Use Efficiency: Why Have We Overestimated Responses to Rising Atmospheric CO2 in Natural Forest Ecosystems?. PLoS ONE, 2013, 8, e53089.	2.5	64
69	A simple procedure for the purification of active fractions in aqueous extracts of plants with allelopathic properties. Acta Botanica Brasilica, 2013, 27, 50-53.	0.8	6
70	Florestas estacionais e áreas de ecótono no estado do Tocantins, Brasil: parâmetros estruturais, classificação das fitofisionomias florestais e subsÃdios para conservaçÁ£o. Acta Amazonica, 2013, 43, 261-290.	0.7	38
71	Iron: The Forgotten Driver of Nitrous Oxide Production in Agricultural Soil. PLoS ONE, 2013, 8, e60146.	2.5	38
72	Recruitment patterns and northward tree migration through gap dynamics in an old-growth white pine forest in northern Ontario. Plant Ecology, 2012, 213, 1699-1714.	1.6	19

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73	Depth of water uptake in woody plants relates to groundwater level and vegetation structure along a topographic gradient in a neotropical savanna. Environmental and Experimental Botany, 2012, 77, 259-266.	4.2	124
74	Ecological thresholds at the savannaâ€forest boundary: how plant traits, resources and fire govern the distribution of tropical biomes. Ecology Letters, 2012, 15, 759-768.	6.4	649
75	Variações ambientais e relações florÃsticas no cerrado sensu stricto sobre areia (Neossolo) Tj ETQq1 1 0.78 Neotropical Biology, 2012, 8, .	4314 rgBT 0.1	「/Overlock の
76	Evidence of shift in C4 species range in central Argentina during the late Holocene. Plant and Soil, 2011, 349, 261-279.	3.7	35
77	Mechanisms of Araucaria (Atlantic) Forest Expansion into Southern Brazilian Grasslands. Ecosystems, 2011, 14, 1354-1371.	3.4	61
78	Northward migrating trees establish in treefall gaps at the northern limit of the temperate–boreal ecotone, Ontario, Canada. Oecologia, 2010, 164, 1095-1106.	2.0	62
79	Deciphering earth mound origins in central Brazil. Plant and Soil, 2010, 336, 3-14.	3.7	40
80	Not all forests are expanding over central Brazilian savannas. Plant and Soil, 2010, 333, 431-442.	3.7	24
81	Fertilidade quÃmica de um substrato tratado com lodo de esgoto e composto de resÃduos domésticos. Revista Brasileira De Engenharia Agricola E Ambiental, 2010, 14, 538-544.	1.1	10
82	Evolução da qualidade do substrato de uma área minerada no cerrado revegetada com Stylosanthes spp. Revista Brasileira De Engenharia Agricola E Ambiental, 2010, 14, 835-841.	1.1	9
83	CaracterÃsticas funcionais de folhas de sol e sombra de espécies arbóreas em uma mata de galeria no Distrito Federal, Brasil. Acta Botanica Brasilica, 2010, 24, 640-647.	0.8	26
84	Recent Widespread Tree Growth Decline Despite Increasing Atmospheric CO2. PLoS ONE, 2010, 5, e11543.	2.5	134
85	Past century changes in <i>Araucaria angustifolia</i> (Bertol.) Kuntze water use efficiency and grassland ecosystems of southern Brazil: implications for forest expansion. Global Change Biology, 2009, 15, 2387-2396.	9.5	73
86	Expansion of gallery forests into central Brazilian savannas. Global Change Biology, 2008, 14, 2108-2118.	9.5	125
87	Sobrevivência e crescimento de seis espécies arbÃ3reas submetidas a quatro tratamentos em área minerada no cerrado. Revista Arvore, 2008, 32, 731-740.	0.5	22
88	Caracterização da polpa do coquinho-azedo (Butia capitata var capitata). Revista Brasileira De Fruticultura, 2008, 30, 827-829.	0.5	32
89	Caracterização quÃmica da amêndoa de coquinho-azedo (Butia capitata var capitata). Revista Brasileira De Fruticultura, 2008, 30, 549-552.	0.5	23