

George Louis Vourlitis

List of Publications by Year in descending order

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75
papers

2,569
citations

172386

29
h-index

223716

46
g-index

76
all docs

76
docs citations

76
times ranked

3139
citing authors

#	ARTICLE	IF	CITATIONS
1	Patterns of water and heat flux across a biome gradient from tropical forest to savanna in Brazil. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	220
2	The Sensitivity of Diel CO ₂ and H ₂ O Vapor Exchange of a Tropical Transitional Forest to Seasonal Variation in Meteorology and Water Availability. <i>Earth Interactions</i> , 2005, 9, 1-23.	0.7	153
3	The effects of climate change on land-atmosphere feedbacks in arctic tundra regions. <i>Trends in Ecology and Evolution</i> , 1994, 9, 324-329.	4.2	134
4	ECOLOGICAL RESEARCH IN THE LARGE-SCALE BIOSPHERE ATMOSPHERE EXPERIMENT IN AMAZONIA: EARLY RESULTS. , 2004, 14, 3-16.		130
5	Seasonal variations in the evapotranspiration of a transitional tropical forest of Mato Grosso, Brazil. <i>Water Resources Research</i> , 2002, 38, 30-1-30-11.	1.7	114
6	Energy balance and canopy conductance of a tropical semi-deciduous forest of the southern Amazon Basin. <i>Water Resources Research</i> , 2008, 44, .	1.7	92
7	Comparison of the mass and energy exchange of a pasture and a mature transitional tropical forest of the southern Amazon Basin during a seasonal transition. <i>Global Change Biology</i> , 2004, 10, 863-876.	4.2	82
8	FLUXNET-CH ₄ : a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. <i>Earth System Science Data</i> , 2021, 13, 3607-3689.	3.7	79
9	Seasonal variation in energy balance and canopy conductance for a tropical savanna ecosystem of south central Mato Grosso, Brazil. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1-13.	1.3	71
10	Patterns of energy exchange for tropical ecosystems across a climate gradient in Mato Grosso, Brazil. <i>Agricultural and Forest Meteorology</i> , 2015, 202, 112-124.	1.9	65
11	Effects of Dry-Season N Input on the Productivity and N Storage of Mediterranean-Type Shrublands. <i>Ecosystems</i> , 2009, 12, 473-488.	1.6	64
12	Identifying dominant environmental predictors of freshwater wetland methane fluxes across diurnal to seasonal time scales. <i>Global Change Biology</i> , 2021, 27, 3582-3604.	4.2	59
13	Ground and remote sensing-based measurements of leaf area index in a transitional forest and seasonal flooded forest in Brazil. <i>International Journal of Biometeorology</i> , 2014, 58, 1181-1193.	1.3	53
14	EFFECTS OF METEOROLOGICAL VARIATIONS ON THE CO ₂ EXCHANGE OF A BRAZILIAN TRANSITIONAL TROPICAL FOREST. , 2004, 14, 89-100.		51
15	Radiative forcing of methane fluxes offsets net carbon dioxide uptake for a tropical flooded forest. <i>Global Change Biology</i> , 2019, 25, 1967-1981.	4.2	50
16	Seasonal and interannual litter dynamics of a tropical semideciduous forest of the southern Amazon Basin, Brazil. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	46
17	Is the dry season an important driver of phenology and growth for two Brazilian savanna tree species with contrasting leaf habits?. <i>Plant Ecology</i> , 2015, 216, 407-417.	0.7	45
18	Seasonal variation in the leaf gas exchange of tropical forest trees in the rain forest-savanna transition of the southern Amazon Basin. <i>Journal of Tropical Ecology</i> , 2005, 21, 451-460.	0.5	44

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19	Chronic Nitrogen Deposition Enhances Nitrogen Mineralization Potential of Semiarid Shrubland Soils. <i>Soil Science Society of America Journal</i> , 2007, 71, 836-842.	1.2	44
20	Seasonal Patterns of Evapotranspiration for a <i>Vochysia divergens</i> Forest in the Brazilian Pantanal. <i>Wetlands</i> , 2011, 31, 1215-1225.	0.7	37
21	Nitrogen and carbon mineralization of semi-arid shrubland soil exposed to long-term atmospheric nitrogen deposition. <i>Biology and Fertility of Soils</i> , 2007, 43, 611-615.	2.3	35
22	Experimental dry-season N deposition alters species composition in southern Californian mediterranean-type shrublands. <i>Ecology</i> , 2009, 90, 2183-2189.	1.5	35
23	Variations in evapotranspiration and climate for an Amazonian semi-deciduous forest over seasonal, annual, and El Niño cycles. <i>International Journal of Biometeorology</i> , 2015, 59, 217-230.	1.3	35
24	Variations in Stand Structure and Diversity along a Soil Fertility Gradient in a Brazilian Savanna (Cerrado) in Southern Mato Grosso. <i>Soil Science Society of America Journal</i> , 2013, 77, 1370-1379.	1.2	33
25	Gap-filling eddy covariance methane fluxes: Comparison of machine learning model predictions and uncertainties at FLUXNET-CH4 wetlands. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108528.	1.9	33
26	Spatial Variations in Soil Chemistry and Organic Matter Content across a <i>Vochysia divergens</i> Invasion Front in the Brazilian Pantanal. <i>Soil Science Society of America Journal</i> , 2011, 75, 1554-1561.	1.2	32
27	Plant hydraulic responses to long-term dry season nitrogen deposition alter drought tolerance in a Mediterranean-type ecosystem. <i>Oecologia</i> , 2016, 181, 721-731.	0.9	32
28	Chronic N enrichment and drought alter plant cover and community composition in a Mediterranean-type semi-arid shrubland. <i>Oecologia</i> , 2017, 184, 267-277.	0.9	32
29	Large net CO ₂ loss from a grass-dominated tropical savanna in south-central Brazil in response to seasonal and interannual drought. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2110-2124.	1.3	31
30	Plant and Soil N Response of Southern Californian Semi-arid Shrublands After 1 Year of Experimental N Deposition. <i>Ecosystems</i> , 2007, 10, 263-279.	1.6	30
31	Physiological responses to extreme hydrological events in the Pantanal wetland: heterogeneity of a plant community containing superdominant species. <i>Journal of Vegetation Science</i> , 2016, 27, 568-577.	1.1	30
32	Dry Season Evapotranspiration Dynamics over Human-Impacted Landscapes in the Southern Amazon Using the Landsat-Based METRIC Model. <i>Remote Sensing</i> , 2017, 9, 706.	1.8	30
33	Nutrient resorption in tropical savanna forests and woodlands of central Brazil. <i>Plant Ecology</i> , 2014, 215, 963-975.	0.7	29
34	Modeling canopy conductance under contrasting seasonal conditions for a tropical savanna ecosystem of south central Mato Grosso, Brazil. <i>Agricultural and Forest Meteorology</i> , 2016, 218-219, 218-229.	1.9	29
35	Comparative assessment of modelled and empirical reference evapotranspiration methods for a brazilian savanna. <i>Agricultural Water Management</i> , 2020, 232, 106040.	2.4	28
36	Soil respiration and aboveground litter dynamics of a tropical transitional forest in northwest Mato Grosso, Brazil. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	25

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37	Variations in aboveground vegetation structure along a nutrient availability gradient in the Brazilian pantanal. <i>Plant and Soil</i> , 2015, 389, 307-321.	1.8	23
38	Temporal patterns of net CO ₂ exchange for a tropical semideciduous forest of the southern Amazon Basin. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	22
39	Effects of soil water content, temperature and experimental nitrogen deposition on nitric oxide (NO) efflux from semiarid shrubland soil. <i>Journal of Arid Environments</i> , 2015, 117, 67-74.	1.2	21
40	Aboveground net primary production response of semi-arid shrublands to chronic experimental dry-season N input. <i>Ecosphere</i> , 2012, 3, art22.	1.0	20
41	Growth and Resource Use of the Invasive Grass, Pampasgrass (<i>Cortaderia selloana</i>), in Response to Nitrogen and Water Availability. <i>Weed Science</i> , 2013, 61, 117-125.	0.8	19
42	Modelling gross primary production of a tropical semi-deciduous forest in the southern Amazon Basin. <i>International Journal of Remote Sensing</i> , 2014, 35, 1540-1562.	1.3	16
43	Impacts of chronic N input on the carbon and nitrogen storage of a postfire Mediterranean-type shrubland. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2016, 121, 385-398.	1.3	16
44	Effects of flooding and shading on growth and gas exchange of <i>Vochysia divergens</i> Pohl (Vochysiaceae) of invasive species in the Brazilian Pantanal. <i>Brazilian Journal of Plant Physiology</i> , 2012, 24, 75-84.	0.5	15
45	Gross primary productivity of Brazilian Savanna (Cerrado) estimated by different remote sensing-based models. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108456.	1.9	15
46	Carbon and nitrogen storage in soil and litter of southern Californian semi-arid shrublands. <i>Journal of Arid Environments</i> , 2007, 70, 164-173.	1.2	14
47	Post-fire primary production and plant community dynamics in chaparral stands exposed to varying levels of nitrogen deposition. <i>Journal of Arid Environments</i> , 2010, 74, 310-314.	1.2	14
48	Soil N, P, and C dynamics of upland and seasonally flooded forests of the Brazilian Pantanal. <i>Global Ecology and Conservation</i> , 2017, 12, 227-240.	1.0	14
49	Carbon and nitrogen mineralization of semi-arid shrubland soils exposed to chronic nitrogen inputs and pulses of labile carbon and nitrogen. <i>Journal of Arid Environments</i> , 2015, 122, 37-45.	1.2	13
50	Interactions between Vegetation, Hydrology, and Litter Inputs on Decomposition and Soil CO ₂ Efflux of Tropical Forests in the Brazilian Pantanal. <i>Forests</i> , 2018, 9, 281.	0.9	13
51	Potential soil extracellular enzyme activity is altered by long-term experimental nitrogen deposition in semiarid shrublands. <i>Applied Soil Ecology</i> , 2021, 158, 103779.	2.1	13
52	Seasonal variation in the maximum rate of leaf gas exchange of canopy and understory tree species in an Amazonian semi-deciduous forest. <i>Brazilian Journal of Plant Physiology</i> , 2009, 21, 65-74.	0.5	13
53	Carbon and Nitrogen Mineralization of a Semiarid Shrubland Exposed to Experimental Nitrogen Deposition. <i>Soil Science Society of America Journal</i> , 2012, 76, 2068-2073.	1.2	12
54	Flux Dynamics in the Cerrado and Cerrado "Forest Transition of Brazil. , 2010, , 97-116.		12

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55	Evaluation of FAO-56 Procedures for Estimating Reference Evapotranspiration Using Missing Climatic Data for a Brazilian Tropical Savanna. <i>Water (Switzerland)</i> , 2021, 13, 1763.	1.2	11
56	Seasonal variations in litter production and its relation with MODIS vegetation indices in a semi-deciduous forest of Mato Grosso. <i>Remote Sensing Letters</i> , 2012, 3, 1-9.	0.6	10
57	Estimation of gross primary production of the Amazon-Cerrado transitional forest by remote sensing techniques. <i>Revista Brasileira De Meteorologia</i> , 2014, 29, 01-12.	0.2	10
58	Estimating of gross primary production in an Amazon-Cerrado transitional forest using MODIS and Landsat imagery. <i>Anais Da Academia Brasileira De Ciencias</i> , 2015, 87, 1545-1564.	0.3	10
59	Chronic dry nitrogen inputs alter soil microbial community composition in Southern California semi-arid shrublands. <i>Applied Soil Ecology</i> , 2022, 176, 104496.	2.1	10
60	Shoot and root biomass production in semi-arid shrublands exposed to long-term experimental N input. <i>Science of the Total Environment</i> , 2021, 754, 142204.	3.9	9
61	Temporal variability in evapotranspiration and energy partitioning over a seasonally flooded scrub forest of the Brazilian Pantanal. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108559.	1.9	9
62	Tree growth responses to climate variation in upland and seasonally flooded forests and woodlands of the Cerrado-Pantanal transition of Brazil. <i>Forest Ecology and Management</i> , 2022, 505, 119917.	1.4	9
63	Temporal Patterns of Energy Balance for a Brazilian Tropical Savanna under Contrasting Seasonal Conditions. <i>International Journal of Atmospheric Sciences</i> , 2013, 2013, 1-9.	0.5	8
64	Photosynthetic response of a wetland- and an upland-adapted tree species to seasonal variations in hydrology in the Brazilian Cerrado and Pantanal. <i>Acta Physiologiae Plantarum</i> , 2016, 38, 1.	1.0	8
65	Spatial and Temporal Variations in Aboveground Woody Carbon Storage for Cerrado Forests and Woodlands of Mato Grosso, Brazil. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3252-3268.	1.3	8
66	Effect of fires on biophysical parameters, energy balance and evapotranspiration in a protected area in the Brazilian Cerrado. <i>Remote Sensing Applications: Society and Environment</i> , 2020, 19, 100342.	0.8	8
67	Evapotranspiration Seasonality over Tropical Ecosystems in Mato Grosso, Brazil. <i>Remote Sensing</i> , 2022, 14, 2482.	1.8	8
68	Physiological adjustments of an invasive tree species to extreme hydrological events in a tropical seasonal wetland. <i>Trees - Structure and Function</i> , 2018, 32, 1365-1375.	0.9	7
69	Fire and post-fire management alters soil microbial abundance and activity: A case study in semi-arid shrubland soils. <i>Applied Soil Ecology</i> , 2022, 171, 104319.	2.1	6
70	Hydroseeding increases ecosystem nitrogen retention but inhibits natural vegetation regeneration after two years of chaparral post-fire recovery. <i>Ecological Engineering</i> , 2017, 102, 46-54.	1.6	5
71	Aboveground Carbon Storage and Cycling of Flooded and Upland Forests of the Brazilian Pantanal. <i>Forests</i> , 2020, 11, 665.	0.9	5
72	Transpiração pelo método da sonda de dissipação térmica em floresta de transição Amazônica-Cerrado. <i>Revista Brasileira De Engenharia Agrícola E Ambiental</i> , 2013, 17, 268-274.	0.4	4

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73	Surface Albedo and Temperature Models for Surface Energy Balance Fluxes and Evapotranspiration Using SEBAL and Landsat 8 over Cerrado-Pantanal, Brazil. <i>Sensors</i> , 2021, 21, 7196.	2.1	4
74	Net Primary Production and Ecosystem Carbon Flux of Brazilian Tropical Savanna Ecosystems From Eddy Covariance and Inventory Methods. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	2
75	Soil and Community Characteristics Associated with <i>Hazardia orcuttii</i> (Asteraceae). <i>MadroÃ±o</i> , 2009, 56, 229-237.	0.3	1