Rodrigo Vargas

List of Publications by Year
in descending order

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164 papers	14,339 citations	31902 53 h-index	22102 113 g-index
202 all docs	202 docs citations	202 times ranked	17961 citing authors

#	Article	IF	Citations
1	SoilGrids250m: Global gridded soil information based on machine learning. PLoS ONE, 2017, 12, e0169748.	1.1	2,385
2	Influence of spring and autumn phenological transitions on forest ecosystem productivity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3227-3246.	1.8	751
3	A multi-species synthesis of physiological mechanisms in drought-induced tree mortality. Nature Ecology and Evolution, 2017, 1, 1285-1291.	3.4	739
4	Terrestrial biosphere models need better representation of vegetation phenology: results from the <scp>N</scp>orth <scp>A</scp>merican <scp>C</scp>arbon <scp>P</scp>rogram <scp>S</scp>ite <scp>S</scp>ynthesis. Global Change Biology, 2012, 18, 566-584.	4.2	583
5	Nonstructural Carbon in Woody Plants. Annual Review of Plant Biology, 2014, 65, 667-687.	8.6	533
6	Global Convergence in the Temperature Sensitivity of Respiration at Ecosystem Level. Science, 2010, 329, 838-840.	6.0	446
7	Iterative near-term ecological forecasting: Needs, opportunities, and challenges. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1424-1432.	3.3	400
8	Effects of soil rewetting and thawing on soil gas fluxes: a review of current literature and suggestions for future research. Biogeosciences, 2012, 9, 2459-2483.	1.3	378
9	Globally rising soil heterotrophic respiration over recent decades. Nature, 2018, 560, 80-83.	13.7	360
10	Effect of precipitation variability on net primary production and soil respiration in a Chihuahuan Desert grassland. Global Change Biology, 2011, 17, 1505-1515.	4.2	319
11	Macrosystems ecology: understanding ecological patterns and processes at continental scales. Frontiers in Ecology and the Environment, 2014, 12, 5-14.	1.9	285
12	A modelâ€data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. Journal of Geophysical Research, 2012, 117, .	3.3	274
13	How to quantify tree leaf area index in an open savanna ecosystem: A multi-instrument and multi-model approach. Agricultural and Forest Meteorology, 2010, 150, 63-76.	1.9	240
14	Continuous observation of tree leaf area index at ecosystem scale using upward-pointing digital cameras. Remote Sensing of Environment, 2012, 126, 116-125.	4.6	195
15	Environmental controls and the influence of vegetation type, fine roots and rhizomorphs on diel and seasonal variation in soil respiration. New Phytologist, 2008, 179, 460-471.	3.5	186
16	<scp>CO</scp>₂ exchange and evapotranspiration across dryland ecosystems of southwestern North America. Global Change Biology, 2017, 23, 4204-4221.	4.2	164
17	Representing the function and sensitivity of coastal interfaces in Earth system models. Nature Communications, 2020, 11, 2458.	5.8	153
18	Terrestrial carbon balance in a drier world: the effects of water availability in southwestern North America. Global Change Biology, 2016, 22, 1867-1879.	4.2	142

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19	The impact of flooding on aquatic ecosystem services. Biogeochemistry, 2018, 141, 439-461.	1.7	142
20	Multiscale analysis of temporal variability of soil CO₂ production as influenced by weather and vegetation. Global Change Biology, 2010, 16, 1589-1605.	4.2	139
21	Heterotrophic respiration in disturbed forests: A review with examples from North America. Journal of Geophysical Research, 2011, 116, .	3.3	137
22	Frontiers and challenges in soil respiration research: from measurements to model-data integration. Biogeochemistry, 2011, 102, 1-13.	1.7	132
23	Simulating the impacts of disturbances on forest carbon cycling in North America: Processes, data, models, and challenges. Journal of Geophysical Research, 2011, 116, .	3.3	129
24	On the multiâ€temporal correlation between photosynthesis and soil CO₂ efflux: reconciling lags and observations. New Phytologist, 2011, 191, 1006-1017.	3.5	128
25	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. Agricultural and Forest Meteorology, 2021, 301-302, 108350.	1.9	125
26	On the temporal upscaling of evapotranspiration from instantaneous remote sensing measurements to 8-day mean daily-sums. Agricultural and Forest Meteorology, 2012, 152, 212-222.	1.9	121
27	Looking deeper into the soil: biophysical controls and seasonal lags of soil CO₂ production and efflux. Ecological Applications, 2010, 20, 1569-1582.	1.8	120
28	Precipitation variability and fire influence the temporal dynamics of soil <scp><scp>CO</scp></scp>₂ efflux in an arid grassland. Global Change Biology, 2012, 18, 1401-1411.	4.2	113
29	Biomass and carbon accumulation in a fire chronosequence of a seasonally dry tropical forest. Global Change Biology, 2008, 14, 109-124.	4.2	104
30	Methane emissions from tree stems: a new frontier in the global carbon cycle. New Phytologist, 2019, 222, 18-28.	3.5	104
31	Evidence of old carbon used to grow new fine roots in a tropical forest. New Phytologist, 2009, 182, 710-718.	3.5	100
32	Soil respiration at mean annual temperature predicts annual total across vegetation types and biomes. Biogeosciences, 2010, 7, 2147-2157.	1.3	99
33	Hot spots, hot moments, and spatio-temporal controls on soil CO2 efflux in a water-limited ecosystem. Soil Biology and Biochemistry, 2014, 77, 12-21.	4.2	97
34	Tropospheric ozone reduces carbon assimilation in trees: estimates from analysis of continuous flux measurements. Global Change Biology, 2013, 19, 2427-2443.	4.2	95
35	Recent rates of forest harvest and conversion in North America. Journal of Geophysical Research, 2011, 116, .	3.3	92
36	Networking our science to characterize the state, vulnerabilities, and management opportunities of soil organic matter. Global Change Biology, 2018, 24, e705-e718.	4.2	92

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37	Silicon-rich amendments in rice paddies: Effects on arsenic uptake and biogeochemistry. Science of the Total Environment, 2018, 624, 1360-1368.	3.9	89
38	Comparing ecosystem and soil respiration: Review and key challenges of tower-based and soil measurements. Agricultural and Forest Meteorology, 2018, 249, 434-443.	1.9	89
39	Exploring the "overflow tap" theory: linking forest soil CO₂ fluxes and individual mycorrhizosphere components to photosynthesis. Biogeosciences, 2012, 9, 79-95.	1.3	85
40	Dynamics of Fine Root, Fungal Rhizomorphs, and Soil Respiration in a Mixed Temperate Forest: Integrating Sensors and Observations. Vadose Zone Journal, 2008, 7, 1055-1064.	1.3	82
41	The value of soil respiration measurements for interpreting and modeling terrestrial carbon cycling. Plant and Soil, 2017, 413, 1-25.	1.8	81
42	FLUXNET-CH₄: a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. Earth System Science Data, 2021, 13, 3607-3689.	3.7	79
43	Soil carbon, multiple benefits. Environmental Development, 2015, 13, 33-38.	1.8	75
44	Diel patterns of soil respiration in a tropical forest after Hurricane Wilma. Journal of Geophysical Research, 2008, 113, .	3.3	74
45	Can current moisture responses predict soil CO₂ efflux under altered precipitation regimes? A synthesis of manipulation experiments. Biogeosciences, 2014, 11, 2991-3013.	1.3	74
46	Carbon Dioxide and Methane Fluxes From Tree Stems, Coarse Woody Debris, and Soils in an Upland Temperate Forest. Ecosystems, 2017, 20, 1205-1216.	1.6	74
47	Characterizing the performance of ecosystem models across time scales: A spectral analysis of the North American Carbon Program site-level synthesis. Journal of Geophysical Research, 2011, 116, .	3.3	72
48	Spatial Predictions and Associated Uncertainty of Annual Soil Respiration at the Global Scale. Global Biogeochemical Cycles, 2019, 33, 1733-1745.	1.9	68
49	Changes in photosynthesis and soil moisture drive the seasonal soil respiration-temperature hysteresis relationship. Agricultural and Forest Meteorology, 2018, 259, 184-195.	1.9	65
50	The Forest Sector in Chile: An Overview and Current Challenges. Journal of Forestry, 2016, 114, 562-571.	0.5	60
51	No silver bullet for digital soil mapping: country-specific soil organic carbon estimates across Latin America. Soil, 2018, 4, 173-193.	2.2	60
52	Identifying dominant environmental predictors of freshwater wetland methane fluxes across diurnal to seasonal time scales. Global Change Biology, 2021, 27, 3582-3604.	4.2	59
53	Automated measurements of greenhouse gases fluxes from tree stems and soils: magnitudes, patterns and drivers. Scientific Reports, 2019, 9, 4005.	1.6	58
54	Approaches to advance scientific understanding of macrosystems ecology. Frontiers in Ecology and the Environment, 2014, 12, 15-23.	1.9	57

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55	North America's net terrestrial CO₂ exchange with the atmosphere 1990â€“2009. Biogeosciences, 2015, 12, 399-414.	1.3	54
56	Soil Sensor Technology: Life within a Pixel. BioScience, 2007, 57, 859-867.	2.2	53
57	Ecosystem CO‹sub›2‹/sub› fluxes of arbuscular and ectomycorrhizal dominated vegetation types are differentially influenced by precipitation and temperature. New Phytologist, 2010, 185, 226-236.	3.5	53
58	COSORE: A community database for continuous soil respiration and other soilâ€atmosphere greenhouse gas flux data. Global Change Biology, 2020, 26, 7268-7283.	4.2	50
59	Tracking the structural and functional development of a perennial pepperweed (Lepidium latifolium L.) infestation using a multi-year archive of webcam imagery and eddy covariance measurements. Agricultural and Forest Meteorology, 2011, 151, 916-926.	1.9	49
60	Influence of experimental extreme water pulses on greenhouse gas emissions from soils. Biogeochemistry, 2017, 133, 147-164.	1.7	49
61	Benefits of soil carbon: report on the outcomes of an international scientific committee on problems of the environment rapid assessment workshop. Carbon Management, 2014, 5, 185-192.	1.2	46
62	Hot-Moments of Soil CO2 Efflux in a Water-Limited Grassland. Soil Systems, 2018, 2, 47.	1.0	44
63	Spatial and temporal heterogeneity of geochemical controls on carbon cycling in a tidal salt marsh. Geochimica Et Cosmochimica Acta, 2020, 282, 1-18.	1.6	43
64	Drought Influences the Accuracy of Simulated Ecosystem Fluxes: A Model-Data Meta-analysis for Mediterranean Oak Woodlands. Ecosystems, 2013, 16, 749-764.	1.6	42
65	A restructured and updated global soil respiration database (SRDB-V5). Earth System Science Data, 2021, 13, 255-267.	3.7	42
66	Spatial Gap-Filling of ESA CCI Satellite-Derived Soil Moisture Based on Geostatistical Techniques and Multiple Regression. Remote Sensing, 2020, 12, 665.	1.8	41
67	Detecting vulnerability of humid tropical forests to multiple stressors. One Earth, 2021, 4, 988-1003.	3.6	41
68	Changes in soil hyphal abundance and viability can alter the patterns of hydraulic redistribution by plant roots. Plant and Soil, 2012, 355, 63-73.	1.8	40
69	Influence of run of river dams on floodplain sediments and carbon dynamics. Geoderma, 2016, 272, 51-63.	2.3	40
70	Experimental influence of storm-surge salinity on soil greenhouse gas emissions from a tidal salt marsh. Science of the Total Environment, 2019, 686, 1164-1172.	3.9	40
71	Multiscale spectral analysis of temporal variability in evapotranspiration over irrigated cropland in an arid region. Agricultural Water Management, 2013, 130, 79-89.	2.4	37
72	Ecosystem functional diversity and the representativeness of environmental networks across the conterminous United States. Agricultural and Forest Meteorology, 2018, 262, 423-433.	1.9	37

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73	Tidal Wetland Gross Primary Production Across the Continental United States, 2000â€“2019. Global Biogeochemical Cycles, 2020, 34, e2019GB006349.	1.9	36
74	Estimating heterotrophic respiration at large scales: challenges, approaches, and next steps. Ecosphere, 2016, 7, e01380.	1.0	35
75	Contrasting precipitation seasonality influences evapotranspiration dynamics in waterâ€limited shrublands. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 494-508.	1.3	34
76	Substantial hysteresis in emergent temperature sensitivity of global wetland CH4 emissions. Nature Communications, 2021, 12, 2266.	5.8	34
77	The sensitivity of carbon exchanges in Great Plains grasslands to precipitation variability. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 280-294.	1.3	33
78	Gap-filling eddy covariance methane fluxes: Comparison of machine learning model predictions and uncertainties at FLUXNET-CH4 wetlands. Agricultural and Forest Meteorology, 2021, 308-309, 108528.	1.9	33
79	Spatial biases of information influence global estimates of soil respiration: How can we improve global predictions?. Global Change Biology, 2021, 27, 3923-3938.	4.2	32
80	Automated soil respiration measurements: new information, opportunities and challenges. New Phytologist, 2008, 177, 295-297.	3.5	31
81	How a hurricane disturbance influences extreme CO₂fluxes and variance in a tropical forest. Environmental Research Letters, 2012, 7, 035704.	2.2	31
82	Progress and opportunities for monitoring greenhouse gases fluxes in Mexican ecosystems: the MexFlux network. Atmosfera, 2013, 26, 325-336.	0.3	31
83	Enhancing interoperability to facilitate implementation of REDD+: case study of Mexico. Carbon Management, 2017, 8, 57-65.	1.2	31
84	Downscaling satellite soil moisture using geomorphometry and machine learning. PLoS ONE, 2019, 14, e0219639.	1.1	31
85	Representativeness of FLUXNET Sites Across Latin America. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006090.	1.3	31
86	Evaluating the agreement between measurements and models of net ecosystem exchange at different times and timescales using wavelet coherence: an example using data from the North American Carbon Program Site-Level Interim Synthesis. Biogeosciences, 2013, 10, 6893-6909.	1.3	30
87	Biophysical drivers of net ecosystem and methane exchange across phenological phases in a tidal salt marsh. Agricultural and Forest Meteorology, 2021, 300, 108309.	1.9	29
88	Particulate Organic Matter Composition in Stream Runoff Following Large Storms: Role of POM Sources, Particle Size, and Event Characteristics. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 660-675.	1.3	28
89	Soil Organic Carbon Across Mexico and the Conterminous United States (1991â€“2010). Global Biogeochemical Cycles, 2020, 34, no.	1.9	28
90	Carbon Dioxide and Methane Emissions From A Temperate Salt Marsh Tidal Creek. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005558.	1.3	27

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91	Effects of Vegetation Thinning on Aboveâ€•and Belowground Carbon in a Seasonally Dry Tropical Forest in Mexico. Biotropica, 2009, 41, 302-311.	0.8	25
92	High light and temperature reduce photosynthetic efficiency through different mechanisms in the C4 model Setaria viridis. Communications Biology, 2021, 4, 1092.	2.0	25
93	Historically inconsistent productivity and respiration fluxes in the global terrestrial carbon cycle. Nature Communications, 2022, 13, 1733.	5.8	25
94	Potential bias of daily soil CO2 efflux estimates due to sampling time. Scientific Reports, 2017, 7, 11925.	1.6	24
95	Effects of a Hurricane Disturbance on Aboveground Forest Structure, Arbuscular Mycorrhizae and Belowground Carbon in a Restored Tropical Forest. Ecosystems, 2010, 13, 118-128.	1.6	23
96	Opportunities for advancing carbon cycle science in Mexico: toward a continental scale understanding. Environmental Science and Policy, 2012, 21, 84-93.	2.4	23
97	Greenness trends and carbon stocks of mangroves across Mexico. Environmental Research Letters, 2019, 14, 075010.	2.2	23
98	Using soil sensing technology to examine interactions and controls between ectomycorrhizal growth and environmental factors on soil CO2 dynamics. Plant and Soil, 2010, 331, 17-29.	1.8	22
99	The role of trace gas flux networks in the biogeosciences. Eos, 2012, 93, 217-218.	0.1	22
100	Seasonal Precipitation Legacy Effects Determine the Carbon Balance of a Semiarid Grassland. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 987-1000.	1.3	22
101	The unexplored role of preferential flow in soil carbon dynamics. Soil Biology and Biochemistry, 2021, 161, 108398.	4.2	22
102	Does restoration help the conservation of the threatened forest of Robinson Crusoe Island? The impact of forest gap attributes on endemic plant species richness and exotic invasions. Biodiversity and Conservation, 2013, 22, 1283-1300.	1.2	20
103	El rol de Turdusfalcklandii (Aves: Passeriforme) como dispersor de plantas invasoras en el archipiÃ©lago de Juan FernÃ¡ndez. Revista Chilena De Historia Natural, 2013, 86, 33-48.	0.5	20
104	Greenhouse Gas Fluxes From Tree Stems. Trends in Plant Science, 2019, 24, 296-299.	4.3	20
105	Multidecadal fCO₂ Increase Along the United States Southeast Coastal Margin. Journal of Geophysical Research: Oceans, 2017, 122, 10061-10072.	1.0	19
106	Spatial heterogeneity in CO₂, CH₄, and energy fluxes: insights from airborne eddy covariance measurements over the Mid-Atlantic region. Environmental Research Letters, 2020, 15, 035008.	2.2	19
107	The forests of Robinson Crusoe Island, Chile: an endemism hotspot in danger. Bosque, 2011, 32, 155-164.	0.1	19
108	Geoecohydrological mechanisms couple soil and leaf water dynamics and facilitate species coexistence in shallow soils of a tropical semiarid mixed forest. New Phytologist, 2015, 207, 59-69.	3.5	18

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109	Time series pCO2 at a coastal mooring: Internal consistency, seasonal cycles, and interannual variability. Continental Shelf Research, 2017, 145, 95-108.	0.9	18
110	Determinants of Above-Ground Biomass and Its Spatial Variability in a Temperate Forest Managed for Timber Production. Forests, 2018, 9, 490.	0.9	18
111	Upscaling soil-atmosphere CO2 and CH4 fluxes across a topographically complex forested landscape. Agricultural and Forest Meteorology, 2019, 264, 80-91.	1.9	18
112	Quantification of forest degradation and belowground carbon dynamics: ongoing challenges for monitoring, reporting and verification activities for REDD+. Carbon Management, 2013, 4, 579-582.	1.2	17
113	A multisite analysis of temporal random errors in soil CO₂ efflux. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 737-751.	1.3	17
114	Optimizing an Environmental Observatory Network Design Using Publicly Available Data. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1812-1826.	1.3	17
115	Carbon dioxide dynamics in a residential lawn of a tropical city. Journal of Environmental Management, 2021, 280, 111752.	3.8	17
116	Linking vegetation spectral reflectance with ecosystem carbon phenology in a temperate salt marsh. Agricultural and Forest Meteorology, 2021, 307, 108481.	1.9	17
117	Native shrubland and managed buffelgrass savanna in drylands: Implications for ecosystem carbon and water fluxes. Agricultural and Forest Meteorology, 2019, 268, 269-278.	1.9	16
118	CO₂ Dynamics Are Strongly Influenced by Low Frequency Atmospheric Pressure Changes in Semiarid Grasslands. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 902-917.	1.3	16
119	Environmental Controls on Carbon and Water Fluxes in an Oldâ€Growth Tropical Dry Forest. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005666.	1.3	16
120	Spatiotemporal variability and origin of CO₂ and CH₄ tree stem fluxes in an upland forest. Global Change Biology, 2021, 27, 4879-4893.	4.2	16
121	Diel and seasonal patterns of soil CO2 efflux in a temperate tidal marsh. Science of the Total Environment, 2022, 802, 149715.	3.9	16
122	Using greenhouse gas fluxes to define soil functional types. Plant and Soil, 2018, 423, 285-294.	1.8	15
123	Biogeosciences Perspectives on Integrated, Coordinated, Open, Networked (ICON) Science. Earth and Space Science, 2022, 9, .	1.1	14
124	Seasonal changes in periphyton nitrogen fixation in a protected tropical wetland. Biology and Fertility of Soils, 2006, 43, 367-372.	2.3	13
125	Sea Surface Temperature Influence on Terrestrial Gross Primary Production along the Southern California Current. PLoS ONE, 2015, 10, e0125177.	1.1	13
126	Impacts of soil incorporation of pre-incubated silica-rich rice residue on soil biogeochemistry and greenhouse gas fluxes under flooding and drying. Science of the Total Environment, 2017, 593-594, 134-143.	3.9	12

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127	High Vcmax, Jmax and photosynthetic rates of Sonoran Desert species: Using nitrogen and specific leaf area traits as predictors in biochemical models. Journal of Arid Environments, 2018, 156, 1-8.	1.2	12
128	Gap-free global annual soil moisture: 15â€‰km grids for 1991â€“2018. Earth System Science Data, 2021, 13, 1711-1735.	3.7	12
129	Methane and Carbon Dioxide Fluxes in a Temperate Tidal Salt Marsh: Comparisons Between Plot and Ecosystem Measurements. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	12
130	Air-sea CO‹sub›2‹/sub›fluxes in the near-shore and intertidal zones influenced by the California Current. Journal of Geophysical Research: Oceans, 2013, 118, 4795-4810.	1.0	10
131	Corrigendum to "Can current moisture responses predict soil CO₂ efflux under altered precipitation regimes? A synthesis of manipulation experiments". Biogeosciences, 2014, 11, 3307-3308.	1.3	10
132	Woody plant invasions and restoration in forests of island ecosystems: lessons from Robinson Crusoe Island, Chile. Biodiversity and Conservation, 2017, 26, 1507-1524.	1.2	10
133	Transitional slopes act as hotspots of both soil CO2 emission and CH4 uptake in a temperate forest landscape. Biogeochemistry, 2018, 138, 121-135.	1.7	10
134	The impact of drought on soil moisture trends across Brazilian biomes. Natural Hazards and Earth System Sciences, 2021, 21, 879-892.	1.5	10
135	Management Impacts on Carbon Dynamics in a Sierra Nevada Mixed Conifer Forest. PLoS ONE, 2016, 11, e0150256.	1.1	10
136	Spatial distribution and regeneration strategies of the main forest species on Robinson Crusoe Island. Revista Chilena De Historia Natural, 2010, 83, .	0.5	10
137	Building a Global Ecosystem Research Infrastructure to Address Global Grand Challenges for Macrosystem Ecology. Earth's Future, 2022, 10, .	2.4	10
138	Response to Comment on â€œGlobal Convergence in the Temperature Sensitivity of Respiration at Ecosystem Levelâ€• Science, 2011, 331, 1265-1265.	6.0	9
139	Effects of the Gill-Solent WindMaster-Pro â€œw-boostâ€•firmware bug on eddy covariance fluxes and some simple recovery strategies. Agricultural and Forest Meteorology, 2019, 265, 145-151.	1.9	7
140	On the fate of old stored carbon after large-infrequent disturbances in plants. Plant Signaling and Behavior, 2009, 4, 617-619.	1.2	6
141	A low-cost modular data-acquisition system for monitoring biometeorological variables. Computers and Electronics in Agriculture, 2017, 141, 357-371.	3.7	6
142	Soil swelling potential across Colorado: A digital soil mapping assessment. Landscape and Urban Planning, 2019, 190, 103599.	3.4	6
143	Digital map of the organic carbon profile in the soils of Andalusia, Spain. Ecosistemas, 2017, 26, 80-88.	0.2	6
144	From HPC Performance to Climate Modeling: Transforming Methods for HPC Predictions into Models of Extreme Climate Conditions. , 2015, , .		5

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145	SOMOSPIE: A Modular SOil MOisture SPatial Inference Engine Based on Data-Driven Decisions. , 2019, , .		5
146	Patterns and drivers of multi-annual CO2 emissions within a temperate suburban neighborhood. Biogeochemistry, 2021, 152, 35-50.	1.7	5
147	Estimation of organic carbon in paramo ecosystem soils in Colombia. Ecosistemas, 2020, 29, .	0.2	5
148	Statement of Contribution to Diversity, Equity, and Inclusion for JGR: Biogeosciences. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	5
149	Formation and Fluxes of Soil Trace Gases. Soil Systems, 2020, 4, 22.	1.0	3
150	FijaciÃ³Ã³n de nitrÃ³Ã³geno por Cyanoprokaryota en la Reserva EcolÃ³Ã³gica El EdÃ©Ã©n, Q.R., MÃ©Ã©xico. Mexican Studies/Estudios Mexicanos, 2003, 19, 277-285.	0.0	2
151	Toward a Mexican eddy covariance network for carbon cycle science. Eos, 2011, 92, 307-308.	0.1	2
152	Data analytics for modeling soil moisture patterns across united states ecoclimatic domains. , 2017, , .		2
153	Visible and near-infrared hyperspectral indices explain more variation in lower-crown leaf nitrogen concentrations in autumn than in summer. Oecologia, 2020, 192, 13-27.	0.9	2
154	Foliage Senescence as a Key Parameter for Modeling Gross Primary Productivity in a Mediterranean Shrubland. Journal of Geophysical Research G: Biogeosciences, 2021, 126, .	1.3	2
155	Atmospheric Ammonia Measurements Over a Coastal Salt Marsh Ecosystem Along the Midâ€Atlantic U.S.. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2019JG005522.	1.3	2
156	Downscaling satellite soil moisture for landscape applications: A case study in Delaware, USA. Journal of Hydrology: Regional Studies, 2021, 38, 100946.	1.0	2
157	Downscaling Satellite Soil Moisture Using a Modular Spatial Inference Framework. Remote Sensing, 2022, 14, 3137.	1.8	2
158	Random error analysis of marine xCO2 measurements in a coastal upwelling region. Progress in Oceanography, 2016, 143, 1-12.	1.5	1
159	Looking deeper into the soil: biophysical controls and seasonal lags of soil CO₂production and efflux across multiple vegetation types. , 2010, 20, 100319061507001.		1
160	PrediccÃ³n de carbono orgÃ¡nico en los suelos de MÃ©xico a 1 m de profundidad y 90 m de resoluciÃ³n espacial (1999-2009). Terra Latinoamericana, 0, 39, .	0.3	1
161	Downscaling satellite soil moisture using geomorphometry and machine learning. , 2019, 14, e0219639.		0
162	Downscaling satellite soil moisture using geomorphometry and machine learning. , 2019, 14, e0219639.		0

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163	Downscaling satellite soil moisture using geomorphometry and machine learning. , 2019, 14, e0219639.		0
164	Downscaling satellite soil moisture using geomorphometry and machine learning. , 2019, 14, e0219639.		0