

# Alemu Gonsamo

## List of Publications by Citations

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**Version:** 2024-04-24

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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.

85  
papers

2,803  
citations

34  
h-index

49  
g-index

93  
ext. papers

3,500  
ext. citations

6.9  
avg, IF

5.42  
L-index

#	Paper	IF	Citations
85	Satellite chlorophyll fluorescence measurements reveal large-scale decoupling of photosynthesis and greenness dynamics in boreal evergreen forests. <i>Global Change Biology</i> , <b>2016</b> , 22, 2979-96	11.4	153
84	Interannual variability of net ecosystem productivity in forests is explained by carbon flux phenology in autumn. <i>Global Ecology and Biogeography</i> , <b>2013</b> , 22, 994-1006	6.1	106
83	Land surface phenology derived from normalized difference vegetation index (NDVI) at global FLUXNET sites. <i>Agricultural and Forest Meteorology</i> , <b>2017</b> , 233, 171-182	5.8	100
82	Modeling growing season phenology in North American forests using seasonal mean vegetation indices from MODIS. <i>Remote Sensing of Environment</i> , <b>2014</b> , 147, 79-88	13.2	91
81	Land surface phenology of China's temperate ecosystems over 1999-2013: Spatial-temporal patterns, interaction effects, covariation with climate and implications for productivity. <i>Agricultural and Forest Meteorology</i> , <b>2016</b> , 216, 177-187	5.8	87
80	A new satellite-based monthly precipitation downscaling algorithm with non-stationary relationship between precipitation and land surface characteristics. <i>Remote Sensing of Environment</i> , <b>2015</b> , 162, 119-140	13.2	84
79	Land surface phenology from optical satellite measurement and CO2 eddy covariance technique. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		83
78	Contrasting responses of autumn-leaf senescence to daytime and night-time warming. <i>Nature Climate Change</i> , <b>2018</b> , 8, 1092-1096	21.4	80
77	Global vegetation productivity response to climatic oscillations during the satellite era. <i>Global Change Biology</i> , <b>2016</b> , 22, 3414-26	11.4	68
76	The computation of foliage clumping index using hemispherical photography. <i>Agricultural and Forest Meteorology</i> , <b>2009</b> , 149, 1781-1787	5.8	68
75	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2013</b> , 51, 1336-1348	8.1	65
74	Intercomparison of fraction of absorbed photosynthetically active radiation products derived from satellite data over Europe. <i>Remote Sensing of Environment</i> , <b>2014</b> , 142, 141-154	13.2	62
73	Improved modeling of land surface phenology using MODIS land surface reflectance and temperature at evergreen needleleaf forests of central North America. <i>Remote Sensing of Environment</i> , <b>2016</b> , 176, 152-162	13.2	60
72	The global distribution of leaf chlorophyll content. <i>Remote Sensing of Environment</i> , <b>2020</b> , 236, 111479	13.2	57
71	The match and mismatch between photosynthesis and land surface phenology of deciduous forests. <i>Agricultural and Forest Meteorology</i> , <b>2015</b> , 214-215, 25-38	5.8	56
70	Interannual and spatial impacts of phenological transitions, growing season length, and spring and autumn temperatures on carbon sequestration: A North America flux data synthesis. <i>Global and Planetary Change</i> , <b>2012</b> , 92-93, 179-190	4.2	54
69	Methodology comparison for slope correction in canopy leaf area index estimation using hemispherical photography. <i>Forest Ecology and Management</i> , <b>2008</b> , 256, 749-759	3.9	53

68	Snow cover phenology affects alpine vegetation growth dynamics on the Tibetan Plateau: Satellite observed evidence, impacts of different biomes, and climate drivers. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 256-257, 61-74	5.8	52
67	Interannual variability of net carbon exchange is related to the lag between the end-dates of net carbon uptake and photosynthesis: Evidence from long records at two contrasting forest stands. <i>Agricultural and Forest Meteorology</i> , <b>2012</b> , 164, 29-38	5.8	50
66	Satellite detection of cumulative and lagged effects of drought on autumn leaf senescence over the Northern Hemisphere. <i>Global Change Biology</i> , <b>2019</b> , 25, 2174-2188	11.4	49
65	Deriving land surface phenology indicators from CO <sub>2</sub> eddy covariance measurements. <i>Ecological Indicators</i> , <b>2013</b> , 29, 203-207	5.8	48
64	Assessment of foliage clumping effects on evapotranspiration estimates in forested ecosystems. <i>Agricultural and Forest Meteorology</i> , <b>2016</b> , 216, 82-92	5.8	47
63	Peak season plant activity shift towards spring is reflected by increasing carbon uptake by extratropical ecosystems. <i>Global Change Biology</i> , <b>2018</b> , 24, 2117-2128	11.4	47
62	Predicting deciduous forest carbon uptake phenology by upscaling FLUXNET measurements using remote sensing data. <i>Agricultural and Forest Meteorology</i> , <b>2012</b> , 165, 127-135	5.8	45
61	Circumpolar vegetation dynamics product for global change study. <i>Remote Sensing of Environment</i> , <b>2016</b> , 182, 13-26	13.2	44
60	Improved LAI Algorithm Implementation to MODIS Data by Incorporating Background, Topography, and Foliage Clumping Information. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2014</b> , 52, 1076-1088	8.1	43
59	CIMES: A package of programs for determining canopy geometry and solar radiation regimes through hemispherical photographs. <i>Computers and Electronics in Agriculture</i> , <b>2011</b> , 79, 207-215	6.5	43
58	Trends of carbon fluxes and climate over a mixed temperate-boreal transition forest in southern Ontario, Canada. <i>Agricultural and Forest Meteorology</i> , <b>2015</b> , 211-212, 72-84	5.8	39
57	Sampling gap fraction and size for estimating leaf area and clumping indices from hemispherical photographs. <i>Canadian Journal of Forest Research</i> , <b>2010</b> , 40, 1588-1603	1.9	39
56	Evidence of autumn phenology control on annual net ecosystem productivity in two temperate deciduous forests. <i>Ecological Engineering</i> , <b>2013</b> , 60, 88-95	3.9	38
55	Spectral Response Function Comparability Among 21 Satellite Sensors for Vegetation Monitoring. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2013</b> , 51, 1319-1335	8.1	37
54	Leaf area index for biomes of the Eastern Arc Mountains: Landsat and SPOT observations along precipitation and altitude gradients. <i>Remote Sensing of Environment</i> , <b>2012</b> , 118, 103-115	13.2	36
53	Intercomparison and evaluation of spring phenology products using National Phenology Network and AmeriFlux observations in the contiguous United States. <i>Agricultural and Forest Meteorology</i> , <b>2017</b> , 242, 33-46	5.8	35
52	Measuring fractional forest canopy element cover and openness: Definitions and methodologies revisited. <i>Oikos</i> , <b>2013</b> , 122, 1283-1291	4	35
51	Inter- and intra-annual variations of clumping index derived from the MODIS BRDF product. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2016</b> , 44, 53-60	7.3	34

50	Nitrogen Availability Dampens the Positive Impacts of CO <sub>2</sub> Fertilization on Terrestrial Ecosystem Carbon and Water Cycles. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 11,590-11,600	4.9	34
49	Changes in the Shadow: The Shifting Role of Shaded Leaves in Global Carbon and Water Cycles Under Climate Change. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5052-5061	4.9	34
48	Comparison of Big-Leaf, Two-Big-Leaf, and Two-Leaf Upscaling Schemes for Evapotranspiration Estimation Using Coupled Carbon-Water Modeling. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 207-225	3.7	32
47	Improved assessment of gross and net primary productivity of Canada's landmass. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2013</b> , 118, 1546-1560	3.7	31
46	No evidence of widespread decline of snow cover on the Tibetan Plateau over 2000-2015. <i>Scientific Reports</i> , <b>2017</b> , 7, 14645	4.9	30
45	Improved modeling of gross primary production from a better representation of photosynthetic components in vegetation canopy. <i>Agricultural and Forest Meteorology</i> , <b>2017</b> , 233, 222-234	5.8	28
44	Country-level net primary production distribution and response to drought and land cover change. <i>Science of the Total Environment</i> , <b>2017</b> , 574, 65-77	10.2	28
43	Leaf area index retrieval using gap fractions obtained from high resolution satellite data: Comparisons of approaches, scales and atmospheric effects. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2010</b> , 12, 233-248	7.3	25
42	The sensitivity based estimation of leaf area index from spectral vegetation indices. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2012</b> , 70, 15-25	11.8	24
41	Accelerating forest growth enhancement due to climate and atmospheric changes in British Columbia, Canada over 1956-2001. <i>Scientific Reports</i> , <b>2014</b> , 4, 4461	4.9	23
40	Validating and Linking the GIMMS Leaf Area Index (LAI3g) with Environmental Controls in Tropical Africa. <i>Remote Sensing</i> , <b>2014</b> , 6, 1973-1990	5	23
39	Space-Based Observations for Understanding Changes in the Arctic-Boreal Zone. <i>Reviews of Geophysics</i> , <b>2020</b> , 58, e2019RG000652	23.1	23
38	Comparative Performances of Airborne LiDAR Height and Intensity Data for Leaf Area Index Estimation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2018</b> , 11, 300-310	4.7	19
37	Soil respiration mapped by exclusively use of MODIS data for forest landscapes of Saskatchewan, Canada. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2014</b> , 94, 80-90	11.8	19
36	Continuous observation of leaf area index at Fluxnet-Canada sites. <i>Agricultural and Forest Meteorology</i> , <b>2014</b> , 189-190, 168-174	5.8	19
35	A robust leaf area index algorithm accounting for the expected errors in gap fraction observations. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 248, 197-204	5.8	18
34	The potential of the greenness and radiation (GR) model to interpret 8-day gross primary production of vegetation. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2014</b> , 88, 69-79	11.8	18
33	Citizen science: best practices to remove observer bias in trend analysis. <i>International Journal of Biometeorology</i> , <b>2014</b> , 58, 2159-63	3.7	18

32	Spatial and temporal effects on recruitment of an Afromontane forest tree in a threatened fragmented ecosystem. <i>Biological Conservation</i> , <b>2009</b> , 142, 518-528	6.2	18
31	Citizen Science: linking the recent rapid advances of plant flowering in Canada with climate variability. <i>Scientific Reports</i> , <b>2013</b> , 3, 2239	4.9	17
30	Evaluation of the GLC2000 and NALC2005 land cover products for LAI retrieval over Canada. <i>Canadian Journal of Remote Sensing</i> , <b>2011</b> , 37, 302-313	1.8	17
29	Normalized sensitivity measures for leaf area index estimation using three-band spectral vegetation indices. <i>International Journal of Remote Sensing</i> , <b>2011</b> , 32, 2069-2080	3.1	17
28	Radiation contributed more than temperature to increased decadal autumn and annual carbon uptake of two eastern North America mature forests. <i>Agricultural and Forest Meteorology</i> , <b>2015</b> , 201, 8-16	5.8	16
27	Tropical forest canopies and their relationships with climate and disturbance: results from a global dataset of consistent field-based measurements. <i>Forest Ecosystems</i> , <b>2018</b> , 5,	3.8	16
26	Changes in vegetation phenology are not reflected in atmospheric CO and C/ C seasonality. <i>Global Change Biology</i> , <b>2017</b> , 23, 4029-4044	11.4	14
25	Land Resources Monitoring, Modeling, and Mapping with Remote Sensing		13
24	Global change induced biomass growth offsets carbon released via increased forest fire and respiration of the central Canadian boreal forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2017</b> , 122, 1275-1293	3.7	12
23	Does Earlier and Increased Spring Plant Growth Lead to Reduced Summer Soil Moisture and Plant Growth on Landscapes Typical of Tundra-Taiga Interface?. <i>Remote Sensing</i> , <b>2019</b> , 11, 1989	5	12
22	Simulating impacts of water stress on woody biomass in the southern boreal region of western Canada using a dynamic vegetation model. <i>Agricultural and Forest Meteorology</i> , <b>2014</b> , 198-199, 142-154	5.8	12
21	Satellite observed indicators of the maximum plant growth potential and their responses to drought over Tibetan Plateau (1982-2015). <i>Ecological Indicators</i> , <b>2020</b> , 108, 105732	5.8	12
20	Exploring SMAP and OCO-2 observations to monitor soil moisture control on photosynthetic activity of global drylands and croplands. <i>Remote Sensing of Environment</i> , <b>2019</b> , 232, 111314	13.2	11
19	Trends and Variability in Temperature Sensitivity of Lilac Flowering Phenology. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 807-817	3.7	10
18	Large scale mapping of soil organic carbon concentration with 3D machine learning and satellite observations. <i>Geoderma</i> , <b>2022</b> , 405, 115402	6.7	9
17	Winter teleconnections can predict the ensuing summer European crop productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E2265-6	11.5	8
16	Large-scale leaf area index inversion algorithms from high-resolution airborne imagery. <i>International Journal of Remote Sensing</i> , <b>2011</b> , 32, 3897-3916	3.1	8
15	Coherence among the Northern Hemisphere land, cryosphere, and ocean responses to natural variability and anthropogenic forcing during the satellite era. <i>Earth System Dynamics</i> , <b>2016</b> , 7, 717-734	4.8	8

14	Underestimated role of East Atlantic-West Russia pattern on Amazon vegetation productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E1054-5	11.5	6
13	A two-leaf rectangular hyperbolic model for estimating GPP across vegetation types and climate conditions. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2014</b> , 119, 1385-1398	3.7	6
12	Satellite-observed decrease in the sensitivity of spring phenology to climate change under high nitrogen deposition. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 094055	6.2	5
11	Impacts of global change on peak vegetation growth and its timing in terrestrial ecosystems of the continental US. <i>Global and Planetary Change</i> , <b>2021</b> , 103657	4.2	4
10	EVALUATING A CONVOLUTIONAL NEURAL NETWORK FOR FEATURE EXTRACTION AND TREE SPECIES CLASSIFICATION USING UAV-HYPERSPECTRAL IMAGES. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , V-3-2020, 193-199		3
9	The Response of Spectral Vegetation Indices and Solar-Induced Fluorescence to Changes in Illumination Intensity and Geometry in the Days Surrounding the 2017 North American Solar Eclipse. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2020</b> , 125, e2020JG005774	3.7	3
8	Soil Moisture Active Passive Improves Global Soil Moisture Simulation in a Land Surface Scheme and Reveals Strong Irrigation Signals Over Farmlands. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL092658	4.9	2
7	Greening drylands despite warming consistent with carbon dioxide fertilization effect. <i>Global Change Biology</i> , <b>2021</b> , 27, 3336-3349	11.4	2
6	Daily leaf area index from photosynthetically active radiation for long term records of canopy structure and leaf phenology. <i>Agricultural and Forest Meteorology</i> , <b>2021</b> , 304-305, 108407	5.8	2
5	Delineation of Rain Areas with TRMM Microwave Observations Based on PNN. <i>Remote Sensing</i> , <b>2014</b> , 6, 12118-12137	5	1
4	A simplified procedure for a large scale LAI inversion from high resolution satellite data <b>2009</b> ,		1
3	Instantaneous-to-daily GPP upscaling schemes based on a coupled photosynthesis-stomatal conductance model: correcting the overestimation of GPP by directly using daily average meteorological inputs. <i>Oecologia</i> , <b>2014</b> , 176, 703-14	2.9	0
2	Satellite Observations of Leaf Area Index Decline Following a Spring 2010 Heatwave in Ontario's Northern Temperate Forests. <i>Canadian Journal of Remote Sensing</i> , <b>2017</b> , 43, 563-568	1.8	
1	Historical and future carbon stocks in forests of northern Ontario, Canada. <i>Carbon Balance and Management</i> , <b>2021</b> , 16, 21	3.6	