

Alemu Gonsamo

List of Publications by Year in Descending Order

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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 | Large scale mapping of soil organic carbon concentration with 3D machine learning and satellite observations. <i>Geoderma</i> , 2022 , 405, 115402 | 6.7 | 9 |
| 84 | 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> , 2021 , 48, e2021GL092658 | 4.9 | 2 |
| 83 | Greening drylands despite warming consistent with carbon dioxide fertilization effect. <i>Global Change Biology</i> , 2021 , 27, 3336-3349 | 11.4 | 2 |
| 82 | Historical and future carbon stocks in forests of northern Ontario, Canada. <i>Carbon Balance and Management</i> , 2021 , 16, 21 | 3.6 | |
| 81 | Daily leaf area index from photosynthetically active radiation for long term records of canopy structure and leaf phenology. <i>Agricultural and Forest Meteorology</i> , 2021 , 304-305, 108407 | 5.8 | 2 |
| 80 | Impacts of global change on peak vegetation growth and its timing in terrestrial ecosystems of the continental US. <i>Global and Planetary Change</i> , 2021 , 103657 | 4.2 | 4 |
| 79 | Space-Based Observations for Understanding Changes in the Arctic-Boreal Zone. <i>Reviews of Geophysics</i> , 2020 , 58, e2019RG000652 | 23.1 | 23 |
| 78 | The global distribution of leaf chlorophyll content. <i>Remote Sensing of Environment</i> , 2020 , 236, 111479 | 13.2 | 57 |
| 77 | Satellite-observed decrease in the sensitivity of spring phenology to climate change under high nitrogen deposition. <i>Environmental Research Letters</i> , 2020 , 15, 094055 | 6.2 | 5 |
| 76 | 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> , 2020 , 125, e2020JG005774 | 3.7 | 3 |
| 75 | Satellite observed indicators of the maximum plant growth potential and their responses to drought over Tibetan Plateau (1982-2015). <i>Ecological Indicators</i> , 2020 , 108, 105732 | 5.8 | 12 |
| 74 | 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> , 2019 , 11, 1989 | 5 | 12 |
| 73 | Satellite detection of cumulative and lagged effects of drought on autumn leaf senescence over the Northern Hemisphere. <i>Global Change Biology</i> , 2019 , 25, 2174-2188 | 11.4 | 49 |
| 72 | 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> , 2019 , 232, 111314 | 13.2 | 11 |
| 71 | Trends and Variability in Temperature Sensitivity of Lilac Flowering Phenology. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 807-817 | 3.7 | 10 |
| 70 | 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> , 2018 , 11, 300-310 | 4.7 | 19 |
| 69 | 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> , 2018 , 123, 207-225 | 3.7 | 32 |

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| 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> , 2018 , 256-257, 61-74 | 5.8 | 52 |
| 67 | A robust leaf area index algorithm accounting for the expected errors in gap fraction observations. <i>Agricultural and Forest Meteorology</i> , 2018 , 248, 197-204 | 5.8 | 18 |
| 66 | Tropical forest canopies and their relationships with climate and disturbance: results from a global dataset of consistent field-based measurements. <i>Forest Ecosystems</i> , 2018 , 5, | 3.8 | 16 |
| 65 | Peak season plant activity shift towards spring is reflected by increasing carbon uptake by extratropical ecosystems. <i>Global Change Biology</i> , 2018 , 24, 2117-2128 | 11.4 | 47 |
| 64 | Contrasting responses of autumn-leaf senescence to daytime and night-time warming. <i>Nature Climate Change</i> , 2018 , 8, 1092-1096 | 21.4 | 80 |
| 63 | Changes in the Shadow: The Shifting Role of Shaded Leaves in Global Carbon and Water Cycles Under Climate Change. <i>Geophysical Research Letters</i> , 2018 , 45, 5052-5061 | 4.9 | 34 |
| 62 | Changes in vegetation phenology are not reflected in atmospheric CO and C/ C seasonality. <i>Global Change Biology</i> , 2017 , 23, 4029-4044 | 11.4 | 14 |
| 61 | 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> , 2017 , 242, 33-46 | 5.8 | 35 |
| 60 | Land surface phenology derived from normalized difference vegetation index (NDVI) at global FLUXNET sites. <i>Agricultural and Forest Meteorology</i> , 2017 , 233, 171-182 | 5.8 | 100 |
| 59 | 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> , 2017 , 122, 1275-1293 | 3.7 | 12 |
| 58 | Improved modeling of gross primary production from a better representation of photosynthetic components in vegetation canopy. <i>Agricultural and Forest Meteorology</i> , 2017 , 233, 222-234 | 5.8 | 28 |
| 57 | 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> , 2017 , 43, 563-568 | 1.8 | |
| 56 | No evidence of widespread decline of snow cover on the Tibetan Plateau over 2000-2015. <i>Scientific Reports</i> , 2017 , 7, 14645 | 4.9 | 30 |
| 55 | Country-level net primary production distribution and response to drought and land cover change. <i>Science of the Total Environment</i> , 2017 , 574, 65-77 | 10.2 | 28 |
| 54 | Nitrogen Availability Dampens the Positive Impacts of CO2 Fertilization on Terrestrial Ecosystem Carbon and Water Cycles. <i>Geophysical Research Letters</i> , 2017 , 44, 11,590-11,600 | 4.9 | 34 |
| 53 | Inter- and intra-annual variations of clumping index derived from the MODIS BRDF product. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016 , 44, 53-60 | 7.3 | 34 |
| 52 | Global vegetation productivity response to climatic oscillations during the satellite era. <i>Global Change Biology</i> , 2016 , 22, 3414-26 | 11.4 | 68 |
| 51 | 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> , 2016 , 176, 152-162 | 13.2 | 60 |

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| 50 | Assessment of foliage clumping effects on evapotranspiration estimates in forested ecosystems. <i>Agricultural and Forest Meteorology</i> , 2016 , 216, 82-92 | 5.8 | 47 |
| 49 | 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> , 2016 , 216, 177-187 | 5.8 | 87 |
| 48 | 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> , 2016 , 7, 717-734 | 4.8 | 8 |
| 47 | Satellite chlorophyll fluorescence measurements reveal large-scale decoupling of photosynthesis and greenness dynamics in boreal evergreen forests. <i>Global Change Biology</i> , 2016 , 22, 2979-96 | 11.4 | 153 |
| 46 | Circumpolar vegetation dynamics product for global change study. <i>Remote Sensing of Environment</i> , 2016 , 182, 13-26 | 13.2 | 44 |
| 45 | 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> , 2015 , 112, E1054-5 | 11.5 | 6 |
| 44 | Trends of carbon fluxes and climate over a mixed temperate-boreal transition forest in southern Ontario, Canada. <i>Agricultural and Forest Meteorology</i> , 2015 , 211-212, 72-84 | 5.8 | 39 |
| 43 | A new satellite-based monthly precipitation downscaling algorithm with non-stationary relationship between precipitation and land surface characteristics. <i>Remote Sensing of Environment</i> , 2015 , 162, 119-140 | 13.2 | 84 |
| 42 | The match and mismatch between photosynthesis and land surface phenology of deciduous forests. <i>Agricultural and Forest Meteorology</i> , 2015 , 214-215, 25-38 | 5.8 | 56 |
| 41 | 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> , 2015 , 201, 8-16 | 5.8 | 16 |
| 40 | 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> , 2015 , 112, E2265-6 | 11.5 | 8 |
| 39 | Modeling growing season phenology in North American forests using seasonal mean vegetation indices from MODIS. <i>Remote Sensing of Environment</i> , 2014 , 147, 79-88 | 13.2 | 91 |
| 38 | Intercomparison of fraction of absorbed photosynthetically active radiation products derived from satellite data over Europe. <i>Remote Sensing of Environment</i> , 2014 , 142, 141-154 | 13.2 | 62 |
| 37 | 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> , 2014 , 88, 69-79 | 11.8 | 18 |
| 36 | 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> , 2014 , 198-199, 142-154 | 5.8 | 12 |
| 35 | A two-leaf rectangular hyperbolic model for estimating GPP across vegetation types and climate conditions. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 1385-1398 | 3.7 | 6 |
| 34 | Citizen science: best practices to remove observer bias in trend analysis. <i>International Journal of Biometeorology</i> , 2014 , 58, 2159-63 | 3.7 | 18 |
| 33 | Soil respiration mapped by exclusively use of MODIS data for forest landscapes of Saskatchewan, Canada. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014 , 94, 80-90 | 11.8 | 19 |

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| 32 | Accelerating forest growth enhancement due to climate and atmospheric changes in British Columbia, Canada over 1956-2001. <i>Scientific Reports</i> , 2014 , 4, 4461 | 4.9 | 23 |
| 31 | Delineation of Rain Areas with TRMM Microwave Observations Based on PNN. <i>Remote Sensing</i> , 2014 , 6, 12118-12137 | 5 | 1 |
| 30 | Validating and Linking the GIMMS Leaf Area Index (LAI3g) with Environmental Controls in Tropical Africa. <i>Remote Sensing</i> , 2014 , 6, 1973-1990 | 5 | 23 |
| 29 | Improved LAI Algorithm Implementation to MODIS Data by Incorporating Background, Topography, and Foliage Clumping Information. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 1076-1088 | 8.1 | 43 |
| 28 | 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> , 2014 , 176, 703-14 | 2.9 | 0 |
| 27 | Continuous observation of leaf area index at Fluxnet-Canada sites. <i>Agricultural and Forest Meteorology</i> , 2014 , 189-190, 168-174 | 5.8 | 19 |
| 26 | Spectral Response Function Comparability Among 21 Satellite Sensors for Vegetation Monitoring. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 1319-1335 | 8.1 | 37 |
| 25 | . <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 1336-1348 | 8.1 | 65 |
| 24 | Evidence of autumn phenology control on annual net ecosystem productivity in two temperate deciduous forests. <i>Ecological Engineering</i> , 2013 , 60, 88-95 | 3.9 | 38 |
| 23 | Deriving land surface phenology indicators from CO2 eddy covariance measurements. <i>Ecological Indicators</i> , 2013 , 29, 203-207 | 5.8 | 48 |
| 22 | Interannual variability of net ecosystem productivity in forests is explained by carbon flux phenology in autumn. <i>Global Ecology and Biogeography</i> , 2013 , 22, 994-1006 | 6.1 | 106 |
| 21 | Measuring fractional forest canopy element cover and openness [Definitions and methodologies revisited]. <i>Oikos</i> , 2013 , 122, 1283-1291 | 4 | 35 |
| 20 | Citizen Science: linking the recent rapid advances of plant flowering in Canada with climate variability. <i>Scientific Reports</i> , 2013 , 3, 2239 | 4.9 | 17 |
| 19 | Improved assessment of gross and net primary productivity of Canada's landmass. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 1546-1560 | 3.7 | 31 |
| 18 | The sensitivity based estimation of leaf area index from spectral vegetation indices. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2012 , 70, 15-25 | 11.8 | 24 |
| 17 | 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> , 2012 , 118, 103-115 | 13.2 | 36 |
| 16 | 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> , 2012 , 164, 29-38 | 5.8 | 50 |
| 15 | 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> , 2012 , 92-93, 179-190 | 4.2 | 54 |

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| 14 | Land surface phenology from optical satellite measurement and CO2 eddy covariance technique. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 83 |
| 13 | Predicting deciduous forest carbon uptake phenology by upscaling FLUXNET measurements using remote sensing data. <i>Agricultural and Forest Meteorology</i> , 2012 , 165, 127-135 | 5.8 | 45 |
| 12 | Evaluation of the GLC2000 and NALC2005 land cover products for LAI retrieval over Canada. <i>Canadian Journal of Remote Sensing</i> , 2011 , 37, 302-313 | 1.8 | 17 |
| 11 | CIMES: A package of programs for determining canopy geometry and solar radiation regimes through hemispherical photographs. <i>Computers and Electronics in Agriculture</i> , 2011 , 79, 207-215 | 6.5 | 43 |
| 10 | Large-scale leaf area index inversion algorithms from high-resolution airborne imagery. <i>International Journal of Remote Sensing</i> , 2011 , 32, 3897-3916 | 3.1 | 8 |
| 9 | Normalized sensitivity measures for leaf area index estimation using three-band spectral vegetation indices. <i>International Journal of Remote Sensing</i> , 2011 , 32, 2069-2080 | 3.1 | 17 |
| 8 | 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> , 2010 , 12, 233-248 | 7.3 | 25 |
| 7 | Sampling gap fraction and size for estimating leaf area and clumping indices from hemispherical photographs. <i>Canadian Journal of Forest Research</i> , 2010 , 40, 1588-1603 | 1.9 | 39 |
| 6 | Spatial and temporal effects on recruitment of an Afromontane forest tree in a threatened fragmented ecosystem. <i>Biological Conservation</i> , 2009 , 142, 518-528 | 6.2 | 18 |
| 5 | The computation of foliage clumping index using hemispherical photography. <i>Agricultural and Forest Meteorology</i> , 2009 , 149, 1781-1787 | 5.8 | 68 |
| 4 | A simplified procedure for a large scale LAI inversion from high resolution satellite data 2009 , | | 1 |
| 3 | Methodology comparison for slope correction in canopy leaf area index estimation using hemispherical photography. <i>Forest Ecology and Management</i> , 2008 , 256, 749-759 | 3.9 | 53 |
| 2 | Land Resources Monitoring, Modeling, and Mapping with Remote Sensing | | 13 |
| 1 | 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 |