

Damiano Gianelle

List of Publications by Year in descending order

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98
papers

11,338
citations

81743

39
h-index

40881

93
g-index

108
all docs

108
docs citations

108
times ranked

13494
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent decline in the global land evapotranspiration trend due to limited moisture supply. <i>Nature</i> , 2010, 467, 951-954.	13.7	1,771
2	Global patterns of land-atmosphere fluxes of carbon dioxide, latent heat, and sensible heat derived from eddy covariance, satellite, and meteorological observations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	933
3	Positive biodiversity-productivity relationship predominant in global forests. <i>Science</i> , 2016, 354, .	6.0	864
4	Global and time-resolved monitoring of crop photosynthesis with chlorophyll fluorescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1327-33.	3.3	741
5	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	2.4	646
6	Contrasting response of European forest and grassland energy exchange to heatwaves. <i>Nature Geoscience</i> , 2010, 3, 722-727.	5.4	491
7	Global estimates of evapotranspiration and gross primary production based on MODIS and global meteorology data. <i>Remote Sensing of Environment</i> , 2010, 114, 1416-1431.	4.6	475
8	Fusion of Hyperspectral and LIDAR Remote Sensing Data for Classification of Complex Forest Areas. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 1416-1427.	2.7	435
9	A data-driven analysis of energy balance closure across FLUXNET research sites: The role of landscape scale heterogeneity. <i>Agricultural and Forest Meteorology</i> , 2013, 171-172, 137-152.	1.9	424
10	Temporal and among-site variability of inherent water use efficiency at the ecosystem level. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	422
11	Tree species classification in the Southern Alps based on the fusion of very high geometrical resolution multispectral/hyperspectral images and LiDAR data. <i>Remote Sensing of Environment</i> , 2012, 123, 258-270.	4.6	365
12	Tree Species Classification in Boreal Forests With Hyperspectral Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 2632-2645.	2.7	278
13	Global comparison of light use efficiency models for simulating terrestrial vegetation gross primary production based on the LaThuile database. <i>Agricultural and Forest Meteorology</i> , 2014, 192-193, 108-120.	1.9	220
14	The role of spectral resolution and classifier complexity in the analysis of hyperspectral images of forest areas. <i>Remote Sensing of Environment</i> , 2009, 113, 2345-2355.	4.6	171
15	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010, 5, 034007.	2.2	137
16	Impacts of droughts and extreme-temperature events on gross primary production and ecosystem respiration: a systematic assessment across ecosystems and climate zones. <i>Biogeosciences</i> , 2018, 15, 1293-1318.	1.3	137
17	Productivity, Respiration, and Light-Response Parameters of World Grassland and Agroecosystems Derived From Flux-Tower Measurements. <i>Rangeland Ecology and Management</i> , 2010, 63, 16-39.	1.1	133
18	Semiempirical modeling of abiotic and biotic factors controlling ecosystem respiration across eddy covariance sites. <i>Global Change Biology</i> , 2011, 17, 390-409.	4.2	128

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19	The contribution of nitrogen deposition to the photosynthetic capacity of forests. <i>Global Biogeochemical Cycles</i> , 2013, 27, 187-199.	1.9	127
20	Biotic, Abiotic, and Management Controls on the Net Ecosystem CO ₂ Exchange of European Mountain Grassland Ecosystems. <i>Ecosystems</i> , 2008, 11, 1338-1351.	1.6	122
21	Climatic controls and ecosystem responses drive the inter-annual variability of the net ecosystem exchange of an alpine meadow. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1233-1243.	1.9	113
22	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. <i>New Phytologist</i> , 2012, 194, 775-783.	3.5	111
23	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. <i>Global Change Biology</i> , 2020, 26, 6916-6930.	4.2	97
24	Stand age and species richness dampen interannual variation of ecosystem-level photosynthetic capacity. <i>Nature Ecology and Evolution</i> , 2017, 1, 48.	3.4	85
25	The match and mismatch between photosynthesis and land surface phenology of deciduous forests. <i>Agricultural and Forest Meteorology</i> , 2015, 214-215, 25-38.	1.9	80
26	Fusion of airborne LiDAR and satellite multispectral data for the estimation of timber volume in the Southern Alps. <i>Remote Sensing of Environment</i> , 2011, 115, 2486-2498.	4.6	72
27	Using the MIR bands in vegetation indices for the estimation of grassland biophysical parameters from satellite remote sensing in the Alps region of Trentino (Italy). <i>Advances in Space Research</i> , 2008, 41, 1764-1772.	1.2	66
28	New spectral vegetation indices based on the near-infrared shoulder wavelengths for remote detection of grassland phytomass. <i>International Journal of Remote Sensing</i> , 2012, 33, 2178-2195.	1.3	65
29	Remote sensing of annual terrestrial gross primary productivity from MODIS: an assessment using the FLUXNET La Thuile data set. <i>Biogeosciences</i> , 2014, 11, 2185-2200.	1.3	62
30	Distribution patterns of four Orthoptera species in relation to microhabitat heterogeneity in an ecotonal area. <i>Acta Oecologica</i> , 2001, 22, 175-185.	0.5	61
31	Delineation of Individual Tree Crowns from ALS and Hyperspectral data: a comparison among four methods. <i>European Journal of Remote Sensing</i> , 2015, 48, 365-382.	1.7	60
32	A System for the Estimation of Single-Tree Stem Diameter and Volume Using Multireturn LIDAR Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 2479-2490.	2.7	56
33	Airborne laser scanning of forest resources: An overview of research in Italy as a commentary case study. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2013, 23, 288-300.	1.4	53
34	Individual tree crown delineation and tree species classification with hyperspectral and LiDAR data. <i>PeerJ</i> , 2019, 6, e6227.	0.9	51
35	Predicting stem diameters and aboveground biomass of individual trees using remote sensing data. <i>Ecological Indicators</i> , 2018, 85, 367-376.	2.6	49
36	Redefinition and global estimation of basal ecosystem respiration rate. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	1.9	43

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37	Changes in soil organic carbon and nitrogen following forest expansion on grassland in the Southern Alps. <i>Forest Ecology and Management</i> , 2014, 328, 103-116.	1.4	43
38	Controls on winter ecosystem respiration in temperate and boreal ecosystems. <i>Biogeosciences</i> , 2011, 8, 2009-2025.	1.3	42
39	Ecosystem carbon fluxes and canopy spectral reflectance of a mountain meadow. <i>International Journal of Remote Sensing</i> , 2009, 30, 435-449.	1.3	41
40	Effects of forest expansion on mountain grassland: changes within soil organic carbon fractions. <i>Plant and Soil</i> , 2014, 385, 373-387.	1.8	41
41	Vegetation-specific model parameters are not required for estimating gross primary production. <i>Ecological Modelling</i> , 2014, 292, 1-10.	1.2	37
42	Negative elevation-dependent warming trend in the Eastern Alps. <i>Environmental Research Letters</i> , 2016, 11, 044021.	2.2	37
43	Mapping and modeling forest tree volume using forest inventory and airborne laser scanning. <i>European Journal of Forest Research</i> , 2011, 130, 569-577.	1.1	36
44	Determination of green herbage ratio in grasslands using spectral reflectance. Methods and ground measurements. <i>International Journal of Remote Sensing</i> , 2007, 28, 931-942.	1.3	35
45	Seasonal variation of photosynthetic model parameters and leaf area index from global Fluxnet eddy covariance data. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	35
46	Characterizing forest carbon dynamics using multi-temporal lidar data. <i>Remote Sensing of Environment</i> , 2019, 224, 412-420.	4.6	35
47	Remote Sensing of Grassland Biophysical Parameters in the Context of the Sentinel-2 Satellite Mission. <i>Journal of Sensors</i> , 2016, 2016, 1-16.	0.6	34
48	Analysis on the Use of Multiple Returns LiDAR Data for the Estimation of Tree Stems Volume. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2009, 2, 310-318.	2.3	33
49	Potential and limitations of inferring ecosystem photosynthetic capacity from leaf functional traits. <i>Ecology and Evolution</i> , 2016, 6, 7352-7366.	0.8	29
50	The role of ground reference data collection in the prediction of stem volume with LiDAR data in mountain areas. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2011, 66, 787-797.	4.9	28
51	Monitoring of carbon dioxide fluxes in a subalpine grassland ecosystem of the Italian Alps using a multispectral sensor. <i>Biogeosciences</i> , 2014, 11, 4695-4712.	1.3	28
52	Canopy-scale flux measurements and bottom-up emission estimates of volatile organic compounds from a mixed oak and hornbeam forest in northern Italy. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7149-7170.	1.9	27
53	Carbon fluxes of an alpine peatland in Northern Italy. <i>Agricultural and Forest Meteorology</i> , 2016, 220, 69-82.	1.9	27
54	INFOCARB: A regional scale forest carbon inventory (Provincia Autonoma di Trento, Southern Italian)	1.4	26

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55	Predicting Selected Forest Stand Characteristics with Multispectral ALS Data. <i>Remote Sensing</i> , 2018, 10, 586.	1.8	25
56	Refining the role of phenology in regulating gross ecosystem productivity across European peatlands. <i>Global Change Biology</i> , 2020, 26, 876-887.	4.2	25
57	Nadir and off-nadir hyperspectral field data: strengths and limitations in estimating grassland biophysical characteristics. <i>International Journal of Remote Sensing</i> , 2007, 28, 1547-1560.	1.3	22
58	Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. <i>Global Ecology and Biogeography</i> , 2019, 28, 1351-1365.	2.7	22
59	On the relationship between ecosystem-scale hyperspectral reflectance and CO ₂ exchange in European mountain grasslands. <i>Biogeosciences</i> , 2015, 12, 3089-3108.	1.3	21
60	Belowground carbon allocation patterns as determined by the in-growth soil core ¹³ C technique across different ecosystem types. <i>Geoderma</i> , 2016, 263, 140-150.	2.3	21
61	VIS-NIR, Red-Edge and NIR-Shoulder Based Normalized Vegetation Indices Response to Co-Varying Leaf and Canopy Structural Traits in Heterogeneous Grasslands. <i>Remote Sensing</i> , 2020, 12, 2254.	1.8	20
62	Estimating grassland vegetation cover with remote sensing: A comparison between Landsat-8, Sentinel-2 and PlanetScope imagery. <i>Ecological Indicators</i> , 2022, 141, 109102.	2.6	20
63	Convergence of potential net ecosystem production among contrasting C ₃ grasslands. <i>Ecology Letters</i> , 2013, 16, 502-512.	3.0	19
64	WhiteRef: A New Tower-Based Hyperspectral System for Continuous Reflectance Measurements. <i>Sensors</i> , 2015, 15, 1088-1105.	2.1	19
65	Montane ecosystem productivity responds more to global circulation patterns than climatic trends. <i>Environmental Research Letters</i> , 2016, 11, 024013.	2.2	19
66	Tourists and Local Stakeholders' Perception of Ecosystem Services Provided by Summer Farms in the Eastern Italian Alps. <i>Sustainability</i> , 2020, 12, 1095.	1.6	19
67	Maximum Growth Potential and Periods of Resource Limitation in Apple Tree. <i>Frontiers in Plant Science</i> , 2016, 7, 233.	1.7	18
68	Potential and Limitations of Grasslands β -Diversity Prediction Using Fine-Scale Hyperspectral Imagery. <i>Remote Sensing</i> , 2021, 13, 2649.	1.8	18
69	Composition and stratification of a tachinid (Diptera: Tachinidae) parasitoid community in a European temperate plain forest. <i>Insect Conservation and Diversity</i> , 2012, 5, 346-357.	1.4	16
70	Prediction of Competition Indices in a Norway Spruce and Silver Fir-Dominated Forest Using Lidar Data. <i>Remote Sensing</i> , 2019, 11, 2734.	1.8	16
71	Trade-offs between global warming and day length on the start of the carbon uptake period in seasonally cold ecosystems. <i>Geophysical Research Letters</i> , 2013, 40, 6136-6142.	1.5	14
72	Bayesian optimization of a light use efficiency model for the estimation of daily gross primary productivity in a range of Italian forest ecosystems. <i>Ecological Modelling</i> , 2015, 306, 57-66.	1.2	14

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73	Mapping a European Spruce Bark Beetle Outbreak Using Sentinel-2 Remote Sensing Data. Remote Sensing, 2022, 14, 3135.	1.8	14
74	Hail defoliation assessment in corn (Zea mays L.) using airborne LiDAR. Field Crops Research, 2016, 196, 426-437.	2.3	13
75	Detection of grassland mowing frequency using time series of vegetation indices from Sentinel-2 imagery. GIScience and Remote Sensing, 2022, 59, 481-500.	2.4	12
76	Reply to Magnani et al.: Linking large-scale chlorophyll fluorescence observations with cropland gross primary production. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2511.	3.3	11
77	Assessing Across-Scale Optical Diversity and Productivity Relationships in Grasslands of the Italian Alps. Remote Sensing, 2019, 11, 614.	1.8	11
78	Components of forest soil CO ₂ efflux estimated from δ ¹³ C values of soil organic matter. Plant and Soil, 2013, 364, 55-68.	1.8	10
79	Soil nitrogen explanatory factors across a range of forest ecosystems and climatic conditions in Italy. Forest Ecology and Management, 2018, 408, 25-35.	1.4	10
80	Cataloguing Soil Carbon Stocks. Science, 2010, 330, 1476-1476.	6.0	8
81	Tree species classification in the Southern Alps with very high geometrical resolution multispectral and hyperspectral data. , 2011, , .		8
82	Carbohydrates and thermal properties indicate a decrease in stable aggregate carbon following forest colonization of mountain grassland. Soil Biology and Biochemistry, 2015, 86, 135-145.	4.2	8
83	Carbon, Water and Energy Fluxes of Terrestrial Ecosystems in Italy. Environmental Science and Engineering, 2015, , 11-45.	0.1	8
84	Estimation of grassland biophysical parameters using hyperspectral reflectance for fire risk map prediction. International Journal of Wildland Fire, 2009, 18, 815.	1.0	7
85	Towards Continuous Stem Water Content and Sap Flux Density Monitoring: IoT-Based Solution for Detecting Changes in Stem Water Dynamics. Forests, 2022, 13, 1040.	0.9	7
86	A new procedure for identifying single trees in understory layer using discrete LiDAR data. , 2014, , .		6
87	Feeding management of dairy cattle affect grassland dynamics in an alpine pasture. International Journal of Agricultural Sustainability, 2018, 16, 64-73.	1.3	6
88	Fusion of hyperspectral and lidar remote sensing data for the estimation of tree stem diameters. , 2009, , .		5
89	Correction to "Global patterns of land-atmosphere fluxes of carbon dioxide, latent heat, and sensible heat derived from eddy covariance, satellite, and meteorological observations". Journal of Geophysical Research, 2012, 117, .	3.3	5
90	Land Cover Classification and Monitoring: the STEM Open Source Solution. European Journal of Remote Sensing, 2015, 48, 811-831.	1.7	5

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91	Fusion of multi-spectral SPOT-5 images and very high resolution texture information extracted from digital orthophotos for automatic classification of complex Alpine areas. International Journal of Remote Sensing, 2009, 30, 2859-2873.	1.3	4
92	Identifying treetops from aerial laser scanning data with particle swarming optimization. European Journal of Remote Sensing, 2018, 51, 945-964.	1.7	4
93	Bayesian calibration of simple forest models with multiplicative mathematical structure: A case study with two Light Use Efficiency models in an alpine forest. Ecological Modelling, 2018, 371, 90-100.	1.2	3
94	Effect of Feeding Adaptation of Italian Simmental Cows before Summer Grazing on Animal Behavior and Milk Characteristics. Animals, 2020, 10, 829.	1.0	3
95	Optimizing Field Data Collection for Individual Tree Attribute Predictions Using Active Learning Methods. Remote Sensing, 2019, 11, 949.	1.8	2
96	Fusion of hyperspectral and LiDAR data for forest attributes estimation. , 2014, , .		1
97	On the role of spectral resolution and classifier complexity in the analysis of hyperspectral images of forest areas. , 2007, , .		0
98	Forest species and biomass estimation using airborne laser scanning and hyperspectral images. , 2013, , .		0