

Matteo Detto

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

4,292
citations

94269

37
h-index

114278

63
g-index

73
all docs

73
docs citations

73
times ranked

7017
citing authors

#	ARTICLE	IF	CITATIONS
1	Liana optical traits increase tropical forest albedo and reduce ecosystem productivity. <i>Global Change Biology</i> , 2022, 28, 227-244.	4.2	10
2	Modeling the Joint Effects of Vegetation Characteristics and Soil Properties on Ecosystem Dynamics in a Panama Tropical Forest. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	8
3	Maintenance of high diversity in mechanistic forest dynamics models of competition for light. <i>Ecological Monographs</i> , 2022, 92, .	2.4	16
4	Soils and topography control natural disturbance rates and thereby forest structure in a lowland tropical landscape. <i>Ecology Letters</i> , 2022, 25, 1126-1138.	3.0	18
5	Plant hydraulics, stomatal control, and the response of a tropical forest to water stress over multiple temporal scales. <i>Global Change Biology</i> , 2022, 28, 4359-4376.	4.2	6
6	The interspecific growthâ€mortality trade-off is not a general framework for tropical forest community structure. <i>Nature Ecology and Evolution</i> , 2021, 5, 174-183.	3.4	27
7	ForestGEO: Understanding forest diversity and dynamics through a global observatory network. <i>Biological Conservation</i> , 2021, 253, 108907.	1.9	122
8	Inferring species interactions using Granger causality and convergent cross mapping. <i>Theoretical Ecology</i> , 2021, 14, 87-105.	0.4	26
9	Unraveling the relative role of light and water competition between lianas and trees in tropical forests: A vegetation model analysis. <i>Journal of Ecology</i> , 2021, 109, 519-540.	1.9	24
10	Imaging canopy temperature: shedding (thermal) light on ecosystem processes. <i>New Phytologist</i> , 2021, 230, 1746-1753.	3.5	47
11	Disentangling the Effects of Vapor Pressure Deficit and Soil Water Availability on Canopy Conductance in a Seasonal Tropical Forest During the 2015 El NiÃ±o Drought. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035004.	1.2	17
12	Hydraulicallyâ€vulnerable trees survive on deepâ€water access during droughts in a tropical forest. <i>New Phytologist</i> , 2021, 231, 1798-1813.	3.5	51
13	FLUXNET-CH<sub>4</sub</i>: 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
14	Unveiling spatial and temporal heterogeneity of a tropical forest canopy using high-resolution NIRv, FCVI, and NIRvrad from UAS observations. <i>Biogeosciences</i> , 2021, 18, 6077-6091.	1.3	9
15	Importance of topography for tree species habitat distributions in a terra firme forest in the Colombian Amazon. <i>Plant and Soil</i> , 2020, 450, 133-149.	1.8	35
16	The response of stomatal conductance to seasonal drought in tropical forests. <i>Global Change Biology</i> , 2020, 26, 823-839.	4.2	60
17	Lightning is a major cause of large tree mortality in a lowland neotropical forest. <i>New Phytologist</i> , 2020, 225, 1936-1944.	3.5	46
18	Optimal leaf life strategies determine $V_{c,max}$ dynamic during ontogeny. <i>New Phytologist</i> , 2020, 228, 361-375.	3.5	18

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19	The pantropical response of soil moisture to El Niño. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 2303-2322.	1.9	11
20	Allometric constraints and competition enable the simulation of size structure and carbon fluxes in a dynamic vegetation model of tropical forests (LM3PPA-TV). <i>Global Change Biology</i> , 2020, 26, 4478-4494.	4.2	24
21	Benchmarking and parameter sensitivity of physiological and vegetation dynamics using the Functionally Assembled Terrestrial Ecosystem Simulator (FATES) at Barro Colorado Island, Panama. <i>Biogeosciences</i> , 2020, 17, 3017-3044.	1.3	82
22	Soil nitrogen concentration mediates the relationship between leguminous trees and neighbor diversity in tropical forests. <i>Communications Biology</i> , 2020, 3, 317.	2.0	20
23	Multi-scale integration of satellite remote sensing improves characterization of dry-season green-up in an Amazon tropical evergreen forest. <i>Remote Sensing of Environment</i> , 2020, 246, 111865.	4.6	56
24	Causes and consequences of pronounced variation in the isotope composition of plant xylem water. <i>Biogeosciences</i> , 2020, 17, 4853-4870.	1.3	33
25	Do N-fixing legumes promote neighbouring diversity in the tropics?. <i>Journal of Ecology</i> , 2019, 107, 229-239.	1.9	11
26	Bias in the detection of negative density dependence in plant communities. <i>Ecology Letters</i> , 2019, 22, 1923-1939.	3.0	84
27	Precipitation mediates sap flux sensitivity to evaporative demand in the neotropics. <i>Oecologia</i> , 2019, 191, 519-530.	0.9	14
28	Climate and plant trait strategies determine tree carbon allocation to leaves and mediate future forest productivity. <i>Global Change Biology</i> , 2019, 25, 3395-3405.	4.2	53
29	Global biosphere-climate interaction: a causal appraisal of observations and models over multiple temporal scales. <i>Biogeosciences</i> , 2019, 16, 4851-4874.	1.3	12
30	Predicting shifts in the functional composition of tropical forests under increased drought and CO_2 from trade-offs among plant hydraulic traits. <i>Ecology Letters</i> , 2019, 22, 67-77.	3.0	43
31	Homeostatic maintenance of nonstructural carbohydrates during the 2015-2016 El Niño drought across a tropical forest precipitation gradient. <i>Plant, Cell and Environment</i> , 2019, 42, 1705-1714.	2.8	29
32	Resource acquisition and reproductive strategies of tropical forest in response to the El Niño-Southern Oscillation. <i>Nature Communications</i> , 2018, 9, 913.	5.8	80
33	Functional traits of tropical trees and lianas explain spatial structure across multiple scales. <i>Journal of Ecology</i> , 2018, 106, 795-806.	1.9	21
34	MODIS-derived global land products of shortwave radiation and diffuse and total photosynthetically active radiation at 5 km resolution from 2000. <i>Remote Sensing of Environment</i> , 2018, 204, 812-825.	4.6	131
35	Tropical forest temperature thresholds for gross primary productivity. <i>Ecosphere</i> , 2018, 9, e02311.	1.0	69
36	Quantification and identification of lightning damage in tropical forests. <i>Ecology and Evolution</i> , 2017, 7, 5111-5122.	0.8	19

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37	Spatiotemporal variability of soil respiration in a seasonal tropical forest. <i>Ecology and Evolution</i> , 2017, 7, 7104-7116.	0.8	47
38	A metadata reporting framework (FRAMES) for synthesis of ecohydrological observations. <i>Ecological Informatics</i> , 2017, 42, 148-158.	2.3	18
39	Coupling Fine-Scale Root and Canopy Structure Using Ground-Based Remote Sensing. <i>Remote Sensing</i> , 2017, 9, 182.	1.8	12
40	Drones as a Tool for Monoculture Plantation Assessment in the Steepland Tropics. <i>Forests</i> , 2017, 8, 168.	0.9	15
41	Tree Circumference Dynamics in Four Forests Characterized Using Automated Dendrometer Bands. <i>PLoS ONE</i> , 2016, 11, e0169020.	1.1	25
42	The impact of expanding flooded land area on the annual evaporation of rice. <i>Agricultural and Forest Meteorology</i> , 2016, 223, 181-193.	1.9	48
43	Stabilization of species coexistence in spatial models through the aggregation-segregation effect generated by local dispersal and nonspecific local interactions. <i>Theoretical Population Biology</i> , 2016, 112, 97-108.	0.5	14
44	Interspecific associations in seed arrival and seedling recruitment in a Neotropical forest. <i>Ecology</i> , 2016, 97, 2780-2790.	1.5	28
45	Variation of energy and carbon fluxes from a restored temperate freshwater wetland and implications for carbon market verification protocols. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 777-795.	1.3	47
46	Rates of formation and dissipation of clumping reveal lagged responses in tropical tree populations. <i>Ecology</i> , 2016, 97, 1170-1181.	1.5	12
47	Regional atmospheric cooling and wetting effect of permafrost thaw-induced boreal forest loss. <i>Global Change Biology</i> , 2016, 22, 4048-4066.	4.2	60
48	Habitat hotspots of common and rare tropical species along climatic and edaphic gradients. <i>Journal of Ecology</i> , 2015, 103, 1325-1333.	1.9	19
49	Spatial variability in tropical forest leaf area density from multireturn lidar and modeling. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 294-309.	1.3	61
50	Scale-dependent soil macronutrient heterogeneity reveals effects of litterfall in a tropical rainforest. <i>Plant and Soil</i> , 2015, 391, 51-61.	1.8	38
51	<sc>CTFS</sc> Forest<sc>GEO</sc>: a worldwide network monitoring forests in an era of global change. <i>Global Change Biology</i> , 2015, 21, 528-549.	4.2	473
52	Fitting Ecological Process Models to Spatial Patterns Using Scalewise Variances and Moment Equations. <i>American Naturalist</i> , 2013, 181, E68-E82.	1.0	40
53	Tropospheric ozone reduces carbon assimilation in trees: estimates from analysis of continuous flux measurements. <i>Global Change Biology</i> , 2013, 19, 2427-2443.	4.2	95
54	Consequences of defaunation for a tropical tree community. <i>Ecology Letters</i> , 2013, 16, 687-694.	3.0	244

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55	Multivariate Conditional Granger Causality Analysis for Lagged Response of Soil Respiration in a Temperate Forest. <i>Entropy</i> , 2013, 15, 4266-4284.	1.1	18
56	Hydrological Networks and Associated Topographic Variation as Templates for the Spatial Organization of Tropical Forest Vegetation. <i>PLoS ONE</i> , 2013, 8, e76296.	1.1	61
57	Sensitivity of Soil Respiration to Variability in Soil Moisture and Temperature in a Humid Tropical Forest. <i>PLoS ONE</i> , 2013, 8, e80965.	1.1	80
58	Causality and Persistence in Ecological Systems: A Nonparametric Spectral Granger Causality Approach. <i>American Naturalist</i> , 2012, 179, 524-535.	1.0	78
59	The challenges of measuring methane fluxes and concentrations over a peatland pasture. <i>Agricultural and Forest Meteorology</i> , 2012, 153, 177-187.	1.9	113
60	On the temporal upscaling of evapotranspiration from instantaneous remote sensing measurements to 8-day mean daily-sums. <i>Agricultural and Forest Meteorology</i> , 2012, 152, 212-222.	1.9	121
61	Greenhouse gas (CO ₂ , CH ₄ , H ₂ O) fluxes from drained and flooded agricultural peatlands in the Sacramento-San Joaquin Delta. <i>Agriculture, Ecosystems and Environment</i> , 2012, 150, 1-18.	2.5	168
62	Comparing laser-based open- and closed-path gas analyzers to measure methane fluxes using the eddy covariance method. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1312-1324.	1.9	127
63	Evaluating uncertainty in mapping forest carbon with airborne LiDAR. <i>Remote Sensing of Environment</i> , 2011, 115, 3770-3774.	4.6	194
64	Temporal Dynamics in Soil Oxygen and Greenhouse Gases in Two Humid Tropical Forests. <i>Ecosystems</i> , 2011, 14, 171-182.	1.6	146
65	Large Greenhouse Gas Emissions from a Temperate Peatland Pasture. <i>Ecosystems</i> , 2011, 14, 311-325.	1.6	114
66	Scaling Properties of Biologically Active Scalar Concentration Fluctuations in the Atmospheric Surface Layer over a Managed Peatland. <i>Boundary-Layer Meteorology</i> , 2010, 136, 407-430.	1.2	51
67	Multiscale analysis of temporal variability of soil CO ₂ production as influenced by weather and vegetation. <i>Global Change Biology</i> , 2010, 16, 1589-1605.	4.2	139
68	Comment on Vickers et al.: Self-correlation between assimilation and respiration resulting from flux partitioning of eddy-covariance CO ₂ fluxes. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 312-314.	1.9	28
69	Understanding strategies for seed dispersal by wind under contrasting atmospheric conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19084-19089.	3.3	99
70	Hydrological controls on summertime convective rainfall triggers. <i>Global Change Biology</i> , 2007, 13, 887-896.	4.2	44