

# Riccardo Valentini

## List of Publications by Year in descending order

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225  
papers

40,967  
citations

9428

76  
h-index

3100

193  
g-index

261  
all docs

261  
docs citations

261  
times ranked

30460  
citing authors

#	ARTICLE	IF	CITATIONS
1	Net CO <sub>2</sub> exchange rates in three different successional stages of the 'Dark Taiga' of central Siberia. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 54, 642.	0.8	4
2	Continuous Monitoring of Tree Responses to Climate Change for Smart Forestry: A Cybernetic Web of Trees. <i>Managing Forest Ecosystems</i> , 2022, , 361-398.	0.4	6
3	Economic Evaluation of <i>Posidonia oceanica</i> Ecosystem Services along the Italian Coast. <i>Sustainability</i> , 2022, 14, 489.	1.6	2
4	The role of wood harvest from sustainably managed forests in the carbon cycle. <i>Annals of Forest Science</i> , 2022, 79, .	0.8	11
5	A Proposal for a Forest Digital Twin Framework and Its Perspectives. <i>Forests</i> , 2022, 13, 498.	0.9	17
6	The first simultaneous and continuous underway measurements of atmospheric gaseous elemental mercury, carbon dioxide and methane in the marine boundary layer: Results of cruise study in the Sea of Japan in May 2018. <i>Atmospheric Pollution Research</i> , 2022, 13, 101458.	1.8	0
7	Toward a Unified TreeTalker Data Curation Process. <i>Forests</i> , 2022, 13, 855.	0.9	5
8	The positive climate impact of the Mediterranean diet and current divergence of Mediterranean countries towards less climate sustainable food consumption patterns. <i>Scientific Reports</i> , 2022, 12, .	1.6	12
9	Seasonal Dynamics of CO <sub>2</sub> Fluxes in Two Central-Russian Agroecosystems with Contrasting Ecological and Agronomic Conditions. <i>Agronomy</i> , 2022, 12, 1606.	1.3	3
10	Towards Continuous Stem Water Content and Sap Flux Density Monitoring: IoT-Based Solution for Detecting Changes in Stem Water Dynamics. <i>Forests</i> , 2022, 13, 1040.	0.9	7
11	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. <i>National Science Review</i> , 2021, 8, nwaa145.	4.6	70
12	A land-based approach for climate change mitigation in the livestock sector. <i>Journal of Cleaner Production</i> , 2021, 283, 124622.	4.6	19
13	The role of net ecosystem productivity and of inventories in climate change research: the need for 'net ecosystem productivity with harvest', NEPH. <i>Forest Ecosystems</i> , 2021, 8, .	1.3	6
14	A multilevel carbon and water footprint dataset of food commodities. <i>Scientific Data</i> , 2021, 8, 127.	2.4	35
15	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	2.4	646
16	Soil Is a Net Source of Methane in Tropical African Forests. <i>Forests</i> , 2020, 11, 1157.	0.9	2
17	IoT Monitoring of Urban Tree Ecosystem Services: Possibilities and Challenges. <i>Forests</i> , 2020, 11, 775.	0.9	46
18	Is Soil Contributing to Climate Change Mitigation during Woody Encroachment? A Case Study on the Italian Alps. <i>Forests</i> , 2020, 11, 887.	0.9	5

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19	The Fourier Series Model for Predicting Sapflow Density Flux Based on TreeTalker Monitoring System. Lecture Notes in Computer Science, 2020, , 198-209.	1.0	2
20	Carbon stock increases up to old growth forest along a secondary succession in Mediterranean island ecosystems. PLoS ONE, 2019, 14, e0220194.	1.1	24
21	Tree height in tropical forest as measured by different ground, proximal, and remote sensing instruments, and impacts on above ground biomass estimates. International Journal of Applied Earth Observation and Geoinformation, 2019, 82, 101899.	1.4	30
22	Composition and turnover time of organic matter in soil fractions with different magnetic susceptibility. Geoderma, 2019, 349, 88-96.	2.3	6
23	Memory effects of climate and vegetation affecting net ecosystem CO <sub>2</sub> fluxes in global forests. PLoS ONE, 2019, 14, e0211510.	1.1	58
24	Comparative Study of Soil Respiration Partitioning Methods for Herbaceous Ecosystems. Springer Geography, 2019, , 106-111.	0.3	0
25	Projection of urban expansion and related changes in soil carbon stocks in the Moscow Region. Journal of Cleaner Production, 2018, 170, 902-914.	4.6	41
26	Forest biomass, productivity and carbon cycling along a rainfall gradient in West Africa. Global Change Biology, 2018, 24, e496-e510.	4.2	50
27	Soil organic carbon changes following degradation and conversion to cypress and tea plantations in a tropical mountain forest in Kenya. Plant and Soil, 2018, 422, 527-539.	1.8	26
28	The surface-atmosphere exchange of carbon dioxide in tropical rainforests: Sensitivity to environmental drivers and flux measurement methodology. Agricultural and Forest Meteorology, 2018, 263, 292-307.	1.9	29
29	Urban Soil Respiration and Its Autotrophic and Heterotrophic Components Compared to Adjacent Forest and Cropland Within the Moscow Megapolis. Springer Geography, 2018, , 18-35.	0.3	5
30	Performance of eddy-covariance measurements in fetch-limited applications. Theoretical and Applied Climatology, 2017, 127, 829-840.	1.3	16
31	Exploring the relationship between canopy height and terrestrial plant diversity. Plant Ecology, 2017, 218, 899-908.	0.7	34
32	The contribution to climate change of the organic versus conventional wheat farming: A case study on the carbon footprint of wholemeal bread production in Italy. Journal of Cleaner Production, 2017, 153, 309-319.	4.6	44
33	Urban Soil's Functions: Monitoring, Assessment, and Management. , 2017, , 359-409.		16
34	Winter respiratory C losses provide explanatory power for net ecosystem productivity. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 243-260.	1.3	7
35	Coexistence trend contingent to Mediterranean oaks with different leaf habits. Ecology and Evolution, 2017, 7, 3006-3015.	0.8	5
36	Impact of woody encroachment on soil organic carbon storage in the Lopé National Park, Gabon. Biotropica, 2017, 49, 9-12.	0.8	17

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37	The Role of Respiration in Estimation of Net Carbon Cycle: Coupling Soil Carbon Dynamics and Canopy Turnover in a Novel Version of 3D-CMCC Forest Ecosystem Model. <i>Forests</i> , 2017, 8, 220.	0.9	18
38	Reviews and syntheses: An empirical spatiotemporal description of the global surfaceâ€‘atmosphere carbon fluxes: opportunities and data limitations. <i>Biogeosciences</i> , 2017, 14, 3685-3703.	1.3	58
39	Validation of 3D-CMCC Forest Ecosystem Model (v.5.1) against eddy covariance data for 10 European forest sites. <i>Geoscientific Model Development</i> , 2016, 9, 479-504.	1.3	36
40	An overview of available crop growth and yield models for studies and assessments in agriculture. <i>Journal of the Science of Food and Agriculture</i> , 2016, 96, 709-714.	1.7	98
41	An integrated panâ€‘tropical biomass map using multiple reference datasets. <i>Global Change Biology</i> , 2016, 22, 1406-1420.	4.2	469
42	Above ground biomass and tree species richness estimation with airborne lidar in tropical Ghana forests. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 52, 371-379.	1.4	36
43	Radiocarbon-Based Assessment of Heterotrophic Soil Respiration in Two Mediterranean Forests. <i>Ecosystems</i> , 2016, 19, 62-72.	1.6	2
44	Discrimination of tropical forest types, dominant species, and mapping of functional guilds by hyperspectral and simulated multispectral Sentinel-2 data. <i>Remote Sensing of Environment</i> , 2016, 176, 163-176.	4.6	145
45	DRY and BULK atmospheric nitrogen deposition to a West-African humid forest exposed to terrestrial and oceanic sources. <i>Agricultural and Forest Meteorology</i> , 2016, 218-219, 184-195.	1.9	9
46	Effect of selective logging on soil organic carbon dynamics in tropical forests in central and western Africa. <i>Plant and Soil</i> , 2016, 399, 283-294.	1.8	22
47	Does degradation from selective logging and illegal activities differently impact forest resources? A case study in Ghana. <i>IForest</i> , 2016, 9, 354-362.	0.5	21
48	Hot spot maps of forest presence in the Mediterranean basin. <i>IForest</i> , 2016, 9, 766-774.	0.5	24
49	Energy and mass exchange and the productivity of main Siberian ecosystems (from Eddy covariance) Tj ETQq1 1 0.784314 rgBT /Over 570-578.	0.1	2
50	Energy and mass exchange and the productivity of main Siberian ecosystems (from Eddy covariance) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 0.1 10	0.1	10
51	Performance of Linear and Nonlinear Two-Leaf Light Use Efficiency Models at Different Temporal Scales. <i>Remote Sensing</i> , 2015, 7, 2238-2278.	1.8	23
52	Airborne LiDAR Detects Selectively Logged Tropical Forest Even in an Advanced Stage of Recovery. <i>Remote Sensing</i> , 2015, 7, 8348-8367.	1.8	41
53	Long Tree-Ring Chronologies Provide Evidence of Recent Tree Growth Decrease in a Central African Tropical Forest. <i>PLoS ONE</i> , 2015, 10, e0120962.	1.1	53
54	Uncertainty of remotely sensed aboveground biomass over an African tropical forest: Propagating errors from trees to plots to pixels. <i>Remote Sensing of Environment</i> , 2015, 160, 134-143.	4.6	109

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55	Short-term dynamics and spatial heterogeneity of CO <sub>2</sub> emission from the soils of natural and urban ecosystems in the Central Chernozemic Region. <i>Eurasian Soil Science</i> , 2015, 48, 416-424.	0.5	27
56	The impact of selective logging and clearcutting on forest structure, tree diversity and above-ground biomass of African tropical forests. <i>Ecological Research</i> , 2015, 30, 119-132.	0.7	122
57	Fungi-to-bacteria ratio in soils of European Russia. <i>Archives of Agronomy and Soil Science</i> , 2015, 61, 427-446.	1.3	22
58	Carbon, Water and Energy Fluxes of Terrestrial Ecosystems in Italy. <i>Environmental Science and Engineering</i> , 2015, , 11-45.	0.1	8
59	Trying to Link Vegetation Units with Biomass Data: The Case Study of Italian Shrublands. <i>Environmental Science and Engineering</i> , 2015, , 195-211.	0.1	0
60	The Greenhouse Gas Balance of Italy: A Synthesis. <i>Environmental Science and Engineering</i> , 2015, , 3-10.	0.1	0
61	Seasonal trends of dry and bulk concentration of nitrogen compounds over a rain forest in Ghana. <i>Biogeosciences</i> , 2014, 11, 3069-3081.	1.3	7
62	Biodiversity Mapping in a Tropical West African Forest with Airborne Hyperspectral Data. <i>PLoS ONE</i> , 2014, 9, e97910.	1.1	54
63	Small Footprint Full-Waveform Metrics Contribution to the Prediction of Biomass in Tropical Forests. <i>Remote Sensing</i> , 2014, 6, 9576-9599.	1.8	26
64	Current systematic carbon-cycle observations and the need for implementing a policy-relevant carbon observing system. <i>Biogeosciences</i> , 2014, 11, 3547-3602.	1.3	189
65	A full greenhouse gases budget of Africa: synthesis, uncertainties, and vulnerabilities. <i>Biogeosciences</i> , 2014, 11, 381-407.	1.3	162
66	Data-based perfect-deficit approach to understanding climate extremes and forest carbon assimilation capacity. <i>Environmental Research Letters</i> , 2014, 9, 065002.	2.2	13
67	Genetic characterization of a <i>Tamarix</i> spp. germplasm collection in Italy. <i>Botany</i> , 2014, 92, 360-369.	0.5	6
68	Use of COSMO-SkyMed constellation for monitoring the post-fire vegetation regrowth: The Capo Figari case study. , 2014, , .		1
69	Biodiversity of Italian <i>Tamarix</i> spp. populations: their potential as environmental and productive resources. <i>Rendiconti Lincei</i> , 2014, 25, 439-452.	1.0	8
70	Ethanol production from xerophilic and salt-resistant <i>Tamarix jordanis</i> biomass. <i>Biomass and Bioenergy</i> , 2014, 61, 73-81.	2.9	21
71	EURO-CORDEX: new high-resolution climate change projections for European impact research. <i>Regional Environmental Change</i> , 2014, 14, 563-578.	1.4	1,758
72	How to map soil organic carbon stocks in highly urbanized regions?. <i>Geoderma</i> , 2014, 226-227, 103-115.	2.3	44

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73	Above ground biomass estimation in an African tropical forest with lidar and hyperspectral data. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 89, 49-58.	4.9	208
74	Effect of the replacement of tropical forests with tree plantations on soil organic carbon levels in the Jomoro district, Ghana. Plant and Soil, 2014, 375, 47-59.	1.8	54
75	Orange peel pretreatment in a novel lab-scale direct steam-injection apparatus for ethanol production. Biomass and Bioenergy, 2014, 61, 146-156.	2.9	44
76	A process-based model to simulate growth in forests with complex structure: Evaluation and use of 3D-CMCC Forest Ecosystem Model in a deciduous forest in Central Italy. Ecological Modelling, 2014, 272, 362-378.	1.2	48
77	Biomass and respiration activity of soil microorganisms in anthropogenically transformed ecosystems (Moscow region). Eurasian Soil Science, 2014, 47, 892-903.	0.5	42
78	Climate change impacts on vegetation and water cycle in the Euro-Mediterranean region, studied by a likelihood approach. Regional Environmental Change, 2014, 14, 1405-1418.	1.4	25
79	Partitioning the net ecosystem carbon balance of a semiarid steppe into biological and geological components. Biogeochemistry, 2014, 118, 83-101.	1.7	12
80	Summary and Major Findings. Advances in Global Change Research, 2013, , 157-160.	1.6	0
81	Optical and SAR sensor synergies for forest and land cover mapping in a tropical site in West Africa. International Journal of Applied Earth Observation and Geoinformation, 2013, 21, 7-16.	1.4	118
82	Leaf epidermis morphological differentiation between <i>Tamarix africana</i> Poir. and <i>Tamarix gallica</i> L. ( <i>Tamaricaceae</i> ) with ecological remarks. Plant Biosystems, 2013, 147, 573-582.	0.8	8
83	A literature overview of micrometeorological CH <sub>4</sub> and N <sub>2</sub> O flux measurements in terrestrial ecosystems. Atmospheric Environment, 2013, 81, 311-319.	1.9	55
84	GlobAllomeTree: international platform for tree allometric equations to support volume, biomass and carbon assessment. IForest, 2013, 6, 326-330.	0.5	118
85	Partitioning of ecosystem respiration in a paludified shallow-peat spruce forest in the southern taiga of European Russia. Environmental Research Letters, 2013, 8, 045028.	2.2	19
86	Local cost-benefit analysis for assessing the economic potential of afforestation/reforestation CDM on coca fields in the Peruvian Amazon. Carbon Management, 2013, 4, 387-401.	1.2	2
87	Discrimination of vegetation types in alpine sites with ALOS PALSAR-, RADARSAT-2-, and lidar-derived information. International Journal of Remote Sensing, 2013, 34, 6898-6913.	1.3	16
88	Biomass Growth Rate of Trees from Cameroon Based on <sup>14</sup> C Analysis and Growth Models. Radiocarbon, 2013, 55, 885-893.	0.8	2
89	Comparison of approaches for reporting forest fire-related biomass loss and greenhouse gas emissions in southern Europe. International Journal of Wildland Fire, 2013, 22, 730.	1.0	26
90	Climate projection ensemble as support to water management and irrigation in Nigeria. Journal of Water and Climate Change, 2013, 4, 287-301.	1.2	5

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91	Nitrous oxide emissions from soil of an African rain forest in Ghana. <i>Biogeosciences</i> , 2013, 10, 4179-4187.	1.3	33
92	Biomass Growth Rate of Trees from Cameroon Based on 14C Analysis and Growth Models. <i>Radiocarbon</i> , 2013, 55, .	0.8	0
93	Primer Note: A novel set of EST-SSR markers in <i>Tamarix</i> : a resource to characterize this genus. <i>Silvae Genetica</i> , 2013, 62, 104-109.	0.4	3
94	Land use inventory as framework for environmental accounting: an application in Italy. <i>IForest</i> , 2012, 5, 204-209.	0.5	41
95	Development and testing of a novel lab-scale direct steam-injection apparatus to hydrolyse model and saline crop slurries. <i>Journal of Biotechnology</i> , 2012, 157, 590-597.	1.9	5
96	Geologic carbon sources may confound ecosystem carbon balance estimates: Evidence from a semiarid steppe in the southeast of Spain. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	14
97	Soil organic carbon stock assessment for the different cropland land uses in Italy. <i>Biology and Fertility of Soils</i> , 2012, 48, 9-17.	2.3	72
98	Extending large-scale forest inventories to assess urban forests. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 1409-1422.	1.3	23
99	Climate Change Threatens Coexistence within Communities of Mediterranean Forested Wetlands. <i>PLoS ONE</i> , 2012, 7, e44727.	1.1	28
100	Multicriteria Decision Aid to support Multilateral Environmental Agreements in assessing international forestry projects. <i>International Environmental Agreements: Politics, Law and Economics</i> , 2011, 11, 117-137.	1.5	12
101	Soil carbon dynamics in a Mediterranean forest during the Kyoto Protocol commitment periods. <i>Regional Environmental Change</i> , 2011, 11, 371-376.	1.4	6
102	Predicting hot-spots of land use changes in Italy by ensemble forecasting. <i>Regional Environmental Change</i> , 2011, 11, 483-502.	1.4	32
103	Impact of woody encroachment on soil organic carbon and nitrogen in abandoned agricultural lands along a rainfall gradient in Italy. <i>Regional Environmental Change</i> , 2011, 11, 917-924.	1.4	43
104	Comparative study of transcriptional and physiological responses to salinity stress in two contrasting <i>Populus alba</i> L. genotypes. <i>Tree Physiology</i> , 2011, 31, 1335-1355.	1.4	44
105	Implementation of REDD+ in sub-Saharan Africa: state of knowledge, challenges and opportunities. <i>Environment and Development Economics</i> , 2011, 16, 381-404.	1.3	29
106	The carbon balance of Africa: synthesis of recent research studies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 2038-2057.	1.6	141
107	Estimating tree biomass of sub-Saharan African forests: a review of available allometric equations. <i>Silva Fennica</i> , 2011, 45, .	0.5	240
108	Influence of defoliation on CO2 efflux from soil and microbial activity in a Mediterranean grassland. <i>Agriculture, Ecosystems and Environment</i> , 2010, 136, 87-96.	2.5	51

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109	The role of soil in storing carbon in tropical rainforests: the case of Ankasa Park, Ghana. <i>Plant and Soil</i> , 2010, 331, 453-461.	1.8	31
110	Microbial performance under increasing nitrogen availability in a Mediterranean forest soil. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1596-1606.	4.2	24
111	Assessing genetic diversity of <i>Tamarix</i> spp. in three populations in Southern Italy. <i>Journal of Biotechnology</i> , 2010, 150, 478-479.	1.9	0
112	Predicting changes in soil organic carbon in mediterranean and alpine forests during the Kyoto Protocol commitment periods using the CENTURY model. <i>Soil Use and Management</i> , 2010, 26, 475-484.	2.6	29
113	CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> O fluxes from soil of a burned grassland in Central Africa. <i>Biogeosciences</i> , 2010, 7, 3459-3471.	1.3	50
114	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010, 5, 034007.	2.2	137
115	Wood density, phytomass variations within and among trees, and allometric equations in a tropical rainforest of Africa. <i>Forest Ecology and Management</i> , 2010, 260, 1375-1388.	1.4	229
116	A multi-component GIS framework for desertification risk assessment by an integrated index. <i>Applied Geography</i> , 2010, 30, 394-415.	1.7	101
117	New Parameterization of a Global Vegetation Model for Steppe Ecosystem From Southern Siberian In Situ Measurements. <i>Rangeland Ecology and Management</i> , 2010, 63, 51-61.	1.1	2
118	Modelling the effects of land-cover changes on surface climate in the Mediterranean region. <i>Climate Research</i> , 2010, 41, 91-104.	0.4	40
119	An outlook on the Sub-Saharan Africa carbon balance. <i>Biogeosciences</i> , 2009, 6, 2193-2205.	1.3	72
120	Evaluation of a wind erosion model in a desert area of northern Asia by eddy covariance. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 1743-1757.	1.2	9
121	Importance of methane and nitrous oxide for Europe's terrestrial greenhouse-gas balance. <i>Nature Geoscience</i> , 2009, 2, 842-850.	5.4	310
122	Correction to "Carbon sequestration due to the abandonment of agriculture in the former USSR since 1990". <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	0
123	Establishment of a planted field with Mediterranean shrubs in Sardinia and its evaluation for climate mitigation and to combat desertification in semi-arid regions. <i>IForest</i> , 2009, 2, 77-84.	0.5	9
124	Biotic, Abiotic, and Management Controls on the Net Ecosystem CO <sub>2</sub> Exchange of European Mountain Grassland Ecosystems. <i>Ecosystems</i> , 2008, 11, 1338-1351.	1.6	122
125	Magnani et al. reply. <i>Nature</i> , 2008, 451, E3-E4.	13.7	20
126	Carbon accumulation in European forests. <i>Nature Geoscience</i> , 2008, 1, 425-429.	5.4	263



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127	Implications of the carbon cycle steady state assumption for biogeochemical modeling performance and inverse parameter retrieval. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	113
128	Carbon sequestration due to the abandonment of agriculture in the former USSR since 1990. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	105
129	Quality control of CarboEurope flux data – Part 1: Coupling footprint analyses with flux data quality assessment to evaluate sites in forest ecosystems. <i>Biogeosciences</i> , 2008, 5, 433-450.	1.3	192
130	ASPIS, A Flexible Multispectral System for Airborne Remote Sensing Environmental Applications. <i>Sensors</i> , 2008, 8, 3240-3256.	2.1	8
131	Introduction: Observing the Continental-Scale Greenhouse Gas Balance. <i>Ecological Studies</i> , 2008, , 1-4.	0.4	2
132	Flux Tower Sites, State of the Art, and Network Design. <i>Ecological Studies</i> , 2008, , 215-242.	0.4	4
133	A Roadmap for a Continental-Scale Greenhouse Gas Observing System in Europe. <i>Ecological Studies</i> , 2008, , 377-386.	0.4	0
134	Determinants of terrestrial ecosystem carbon balance inferred from European eddy covariance flux sites. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	223
135	Drying and wetting of Mediterranean soils stimulates decomposition and carbon dioxide emission: the "Birch effect". <i>Tree Physiology</i> , 2007, 27, 929-940.	1.4	415
136	Size-segregated fluxes of mineral dust from a desert area of northern China by eddy covariance. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2839-2854.	1.9	62
137	Isoprene and monoterpene fluxes from Central Amazonian rainforest inferred from tower-based and airborne measurements, and implications on the atmospheric chemistry and the local carbon budget. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2855-2879.	1.9	181
138	The methane sink associated to soils of natural and agricultural ecosystems in Italy. <i>Chemosphere</i> , 2007, 66, 723-729.	4.2	23
139	Carbon balance assessment of a natural steppe of southern Siberia by multiple constraint approach. <i>Biogeosciences</i> , 2007, 4, 581-595.	1.3	32
140	The human footprint in the carbon cycle of temperate and boreal forests. <i>Nature</i> , 2007, 447, 849-851.	13.7	868
141	Reduction of ecosystem productivity and respiration during the European summer 2003 climate anomaly: a joint flux tower, remote sensing and modelling analysis. <i>Global Change Biology</i> , 2007, 13, 634-651.	4.2	486
142	CO <sub>2</sub> balance of boreal, temperate, and tropical forests derived from a global database. <i>Global Change Biology</i> , 2007, 13, 2509-2537.	4.2	863
143	Full accounting of the greenhouse gas (CO <sub>2</sub> , N <sub>2</sub> O, CH <sub>4</sub> ) budget of nine European grassland sites. <i>Agriculture, Ecosystems and Environment</i> , 2007, 121, 121-134.	2.5	409
144	Partitioning European grassland net ecosystem CO <sub>2</sub> exchange into gross primary productivity and ecosystem respiration using light response function analysis. <i>Agriculture, Ecosystems and Environment</i> , 2007, 121, 93-120.	2.5	305

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145	Estimating forest area at the year 1990 by two-phase sampling on historical remotely sensed imagery in Italy. <i>Journal of Forest Research</i> , 2007, 12, 8-13.	0.7	17
146	Towards a standardized processing of Net Ecosystem Exchange measured with eddy covariance technique: algorithms and uncertainty estimation. <i>Biogeosciences</i> , 2006, 3, 571-583.	1.3	1,206
147	Soil respiration in a Mediterranean oak forest at different developmental stages after coppicing. <i>Global Change Biology</i> , 2006, 12, 110-121.	4.2	164
148	Reconciling Carbon-cycle Concepts, Terminology, and Methods. <i>Ecosystems</i> , 2006, 9, 1041-1050.	1.6	904
149	Large daily variation in 13 C enrichment of leaf respired CO <sub>2</sub> in two Quercus forest canopies. <i>New Phytologist</i> , 2005, 167, 377-384.	3.5	97
150	On the separation of net ecosystem exchange into assimilation and ecosystem respiration: review and improved algorithm. <i>Global Change Biology</i> , 2005, 11, 1424-1439.	4.2	2,778
151	Europe-wide reduction in primary productivity caused by the heat and drought in 2003. <i>Nature</i> , 2005, 437, 529-533.	13.7	3,245
152	Predicting the onset of net carbon uptake by deciduous forests with soil temperature and climate data: a synthesis of FLUXNET data. <i>International Journal of Biometeorology</i> , 2005, 49, 377-387.	1.3	167
153	The carbon budget of terrestrial ecosystems at country-scale – a European case study. <i>Biogeosciences</i> , 2005, 2, 15-26.	1.3	178
154	MONITORING INK DISEASE OF CHESTNUT WITH THE AIRBORNE MULTISPECTRAL SYSTEM A.S.P.I.S.. <i>Acta Horticulturae</i> , 2005, , 529-534.	0.1	11
155	Temperature sensitivity of decomposition in relation to soil organic matter pools: critique and outlook. <i>Biogeosciences</i> , 2005, 2, 317-321.	1.3	110
156	Paired comparisons of carbon exchange between undisturbed and regenerating stands in four managed forests in Europe. <i>Global Change Biology</i> , 2004, 10, 1707-1723.	4.2	135
157	Carbon assimilation, nitrogen, and photochemical efficiency of different Himalayan tree species along an altitudinal gradient. <i>Photosynthetica</i> , 2004, 42, 597-605.	0.9	20
158	Relaxed eddy accumulation, a new technique for measuring emission and deposition fluxes of volatile organic compounds by capillary gas chromatography and mass spectrometry. <i>Journal of Chromatography A</i> , 2003, 985, 283-296.	1.8	55
159	Cross validation of open-top chamber and eddy covariance measurements of ecosystem CO <sub>2</sub> exchange in a Florida scrub-oak ecosystem. <i>Global Change Biology</i> , 2003, 9, 84-95.	4.2	64
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