

GÃ¼nther Seufert

List of Publications by Year in descending order

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74
papers

13,813
citations

47006

47
h-index

79698

73
g-index

81
all docs

81
docs citations

81
times ranked

13805
citing authors

#	ARTICLE	IF	CITATIONS
1	Europe-wide reduction in primary productivity caused by the heat and drought in 2003. <i>Nature</i> , 2005, 437, 529-533.	27.8	3,245
2	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.	9.5	2,778
3	CO ₂ balance of boreal, temperate, and tropical forests derived from a global database. <i>Global Change Biology</i> , 2007, 13, 2509-2537.	9.5	863
4	Evidence for soil water control on carbon and water dynamics in European forests during the extremely dry year: 2003. <i>Agricultural and Forest Meteorology</i> , 2007, 143, 123-145.	4.8	509
5	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.	9.5	486
6	Validation of global moderate-resolution LAI products: a framework proposed within the CEOS land product validation subgroup. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 1804-1817.	6.3	341
7	Intercomparison of MODIS albedo retrievals and in situ measurements across the global FLUXNET network. <i>Remote Sensing of Environment</i> , 2012, 121, 323-334.	11.0	259
8	On the monoterpene emission under heat stress and on the increased thermotolerance of leaves of <i>Quercus ilex</i> L. fumigated with selected monoterpenes. <i>Plant, Cell and Environment</i> , 1998, 21, 101-107.	5.7	230
9	Determinants of terrestrial ecosystem carbon balance inferred from European eddy covariance flux sites. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	223
10	Factors controlling regional differences in forest soil emission of nitrogen oxides (NO and Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td	3.3	205
11	Intra- and inter-annual variability of VOC emissions from natural and semi-natural vegetation in Europe and neighbouring countries. <i>Atmospheric Environment</i> , 2009, 43, 1380-1391.	4.1	174
12	Inventories of N<sub>2</sub>O and NO emissions from European forest soils. <i>Biogeosciences</i> , 2005, 2, 353-375.	3.3	170
13	Seasonal and diurnal patterns of monoterpene emissions from <i>Pinus pinea</i> (L.) under field conditions. <i>Atmospheric Environment</i> , 1997, 31, 145-156.	4.1	167
14	Above-ground woody carbon sequestration measured from tree rings is coherent with net ecosystem productivity at five eddy-covariance sites. <i>New Phytologist</i> , 2014, 201, 1289-1303.	7.3	152
15	Carbon concentrations and stocks in forest soils of Europe. <i>Forest Ecology and Management</i> , 2010, 260, 262-277.	3.2	148
16	A new European plant-specific emission inventory of biogenic volatile organic compounds for use in atmospheric transport models. <i>Biogeosciences</i> , 2009, 6, 1059-1087.	3.3	138
17	Effect of SO ₂ and O ₃ on Production of Antioxidants in Conifers. <i>Plant Physiology</i> , 1986, 82, 336-338.	4.8	137
18	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010, 5, 034007.	5.2	137

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19	Light-dependent emission of monoterpenes by holm oak (<i>Quercus ilex</i> L.). <i>Die Naturwissenschaften</i> , 1995, 82, 89-92.	1.6	136
20	Monoterpene emission and monoterpene synthase activities in the Mediterranean evergreen oak <i>Quercus ilex</i> L. grown at elevated CO ₂ concentrations. <i>Global Change Biology</i> , 2001, 7, 709-717.	9.5	135
21	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 2000, 35, 77-99.	3.2	132
22	Semiempirical modeling of abiotic and biotic factors controlling ecosystem respiration across eddy covariance sites. <i>Global Change Biology</i> , 2011, 17, 390-409.	9.5	128
23	A model coupling foliar monoterpene emissions to leaf photosynthetic characteristics in Mediterranean evergreen <i>Quercus</i> species. <i>New Phytologist</i> , 2002, 153, 257-275.	7.3	127
24	High resolution field spectroscopy measurements for estimating gross ecosystem production in a rice field. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 1283-1296.	4.8	116
25	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. <i>New Phytologist</i> , 2012, 194, 775-783.	7.3	111
26	Climatic Feedbacks and Desertification: The Mediterranean Model. <i>Journal of Climate</i> , 2005, 18, 684-701.	3.2	109
27	Biosphere-atmosphere exchange of reactive nitrogen and greenhouse gases at the NitroEurope core flux measurement sites: Measurement strategy and first data sets. <i>Agriculture, Ecosystems and Environment</i> , 2009, 133, 139-149.	5.3	104
28	Preliminary use of ground-penetrating radar and electrical resistivity tomography to study tree roots in pine forests and poplar plantations. <i>Functional Plant Biology</i> , 2008, 35, 1047.	2.1	100
29	On-line analysis of the ¹³ C labeling of leaf isoprene suggests multiple subcellular origins of isoprene precursors. <i>Planta</i> , 2002, 215, 894-905.	3.2	97
30	Modelling carbon budget of Mediterranean forests using ground and remote sensing measurements. <i>Agricultural and Forest Meteorology</i> , 2005, 135, 22-34.	4.8	97
31	Stomatal Constraints May Affect Emission of Oxygenated Monoterpenoids from the Foliage of <i>Pinus pinea</i> . <i>Plant Physiology</i> , 2002, 130, 1371-1385.	4.8	96
32	N ₂ O, NO and CH ₄ exchange, and microbial N turnover over a Mediterranean pine forest soil. <i>Biogeosciences</i> , 2006, 3, 121-133.	3.3	94
33	Monoterpene emissions in relation to foliar photosynthetic and structural variables in Mediterranean evergreen <i>Quercus</i> species. <i>New Phytologist</i> , 2002, 153, 243-256.	7.3	92
34	Fumigation with exogenous monoterpenes of a non-isoprenoid-emitting oak (<i>Quercus suber</i>): monoterpene acquisition, translocation, and effect on the photosynthetic properties at high temperatures. <i>New Phytologist</i> , 2000, 146, 27-36.	7.3	91
35	An incentive mechanism for reducing emissions from conversion of intact and non-intact forests. <i>Climatic Change</i> , 2007, 83, 477-493.	3.6	89
36	Seasonal and interannual patterns of carbon and water fluxes of a poplar plantation under peculiar eco-climatic conditions. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1460-1476.	4.8	89

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37	Trace gas exchange over terrestrial ecosystems: methods and perspectives in micrometeorology. <i>Journal of Experimental Botany</i> , 1997, 48, 1133-1142.	4.8	88
38	Seasonal trends and environmental controls of methane emissions in a rice paddy field in Northern Italy. <i>Biogeosciences</i> , 2011, 8, 3809-3821.	3.3	80
39	Significant light and temperature dependent monoterpene emissions from European beech (<i>Fagus</i>) Tj ETQq1 1 0.784314 rgBT /Overl <i>Geophysical Research</i> , 2006, 111, .	3.3	75
40	Fluxes of biogenic VOC from Mediterranean vegetation by trap enrichment relaxed eddy accumulation. <i>Atmospheric Environment</i> , 1997, 31, 229-238.	4.1	73
41	Sampling and analysis of terpenes in air. An interlaboratory comparison. <i>Atmospheric Environment</i> , 1997, 31, 35-49.	4.1	70
42	A new mass conservation approach to the study of CO ₂ advection in an alpine forest. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	69
43	A hypothesis on the evolution of isoprenoid emission by oaks based on the correlation between emission type and <i>Quercus</i> taxonomy. <i>Oecologia</i> , 1998, 115, 302-305.	2.0	68
44	Operational monitoring of daily evapotranspiration by the combination of MODIS NDVI and ground meteorological data: Application and evaluation in Central Italy. <i>Remote Sensing of Environment</i> , 2014, 152, 279-290.	11.0	65
45	An approach to estimate carbon stocks change in forest carbon pools under the UNFCCC: the Italian case. <i>IForest</i> , 2008, 1, 86-95.	1.4	65
46	Ecophysiological studies of Mediterranean plant species at the Castelporziano estate. <i>Atmospheric Environment</i> , 1997, 31, 51-60.	4.1	62
47	Components, drivers and temporal dynamics of ecosystem respiration in a Mediterranean pine forest. <i>Soil Biology and Biochemistry</i> , 2015, 88, 224-235.	8.8	58
48	Temperature and light dependence of \hat{I}^2 -caryophyllene emission rates. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	55
49	Future scenarios of N ₂ O and NO emissions from European forest soils. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	50
50	Terpenoid emission from citrus sinensis (L.) OSBECK under drought stress. <i>Physics and Chemistry of the Earth</i> , 1999, 24, 681-687.	0.3	49
51	Assessment of MODIS imagery to track light-use efficiency in a water-limited Mediterranean pine forest. <i>Remote Sensing of Environment</i> , 2012, 123, 359-367.	11.0	44
52	Characterizing ecosystem-atmosphere interactions from short to interannual time scales. <i>Biogeosciences</i> , 2007, 4, 743-758.	3.3	42
53	Modeling Gross Primary Production of Agro-Forestry Ecosystems by Assimilation of Satellite-Derived Information in a Process-Based Model. <i>Sensors</i> , 2009, 9, 922-942.	3.8	41
54	Estimating heterotrophic and autotrophic soil respiration in a semi-natural forest of Lombardy, Italy. <i>Pedobiologia</i> , 2012, 55, 285-294.	1.2	38

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55	Scaling up the biogenic emissions from test sites at Castelporziano. <i>Atmospheric Environment</i> , 1997, 31, 239-250.	4.1	36
56	General methods used during the Castelporziano campaigns. <i>Atmospheric Environment</i> , 1997, 31, 27-34.	4.1	35
57	Allometric biomass and carbon factors database. <i>IForest</i> , 2008, 1, 107-113.	1.4	35
58	Thermal adaptation of net ecosystem exchange. <i>Biogeosciences</i> , 2011, 8, 1453-1463.	3.3	30
59	Biogenic emission from the Mediterranean pseudosteppe ecosystem present in Castelporziano. <i>Atmospheric Environment</i> , 1997, 31, 167-175.	4.1	29
60	Volatile Organics in Mediterranean Shrubs and Their Potential Role in a Changing Environment. <i>Ecological Studies</i> , 1995, , 343-370.	1.2	25
61	Photosynthetic responses to elevated CO ₂ and O ₃ in <i>Quercus ilex</i> leaves at a natural CO ₂ spring. <i>Environmental Pollution</i> , 2007, 147, 516-524.	7.5	20
62	Forest conversion to poplar plantation in a Lombardy floodplain (Italy): effects on soil organic carbon stock. <i>Biogeosciences</i> , 2014, 11, 6483-6493.	3.3	20
63	Soil microbial community structure in a rice paddy field and its relationships to CH ₄ and N ₂ O fluxes. <i>Nutrient Cycling in Agroecosystems</i> , 2012, 93, 35-50.	2.2	19
64	Monoterpene patterns of different tissues and plant parts of Norway spruce (<i>Picea abies</i> L. Karst.). <i>Environmental Pollution</i> , 1990, 68, 367-375.	7.5	18
65	Monoterpene emission from soils in orange plantations of the valencian citrus belt, Spain. <i>Physics and Chemistry of the Earth</i> , 1999, 24, 695-698.	0.3	18
66	Water requirements of short rotation poplar coppice: Experimental and modelling analyses across Europe. <i>Agricultural and Forest Meteorology</i> , 2018, 250-251, 343-360.	4.8	17
67	Far from Naturalness: How Much Does Spatial Ecological Structure of European Tree Assemblages Depart from Potential Natural Vegetation?. <i>PLoS ONE</i> , 2016, 11, e0165178.	2.5	14
68	Building a topological and geometrical model of poplar tree using portable on-ground scanning LIDAR. <i>Functional Plant Biology</i> , 2008, 35, 1080.	2.1	12
69	Monitoring water stress in Mediterranean semi-natural vegetation with satellite and meteorological data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2014, 26, 246-255.	2.8	12
70	Performance of some growth variables. <i>Environmental Pollution</i> , 1990, 68, 419-434.	7.5	9
71	Experiments on canopy/soil leaching effects of air pollutants in model ecosystems with forest trees. <i>Geo Journal</i> , 1988, 17, 261-270.	3.1	6
72	Ecophysiological characterization of citrus sinensis (L.) Osbeck and relationships with type and amount of biogenic emissions. <i>Physics and Chemistry of the Earth</i> , 1999, 24, 699-703.	0.3	5

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73	A temporal-spatial solar radiation model to improve scaling of biogenic emissions from a sparse Mediterranean pine/oak forest. <i>Physics and Chemistry of the Earth</i> , 1999, 24, 673-680.	0.3	4
74	Tracking seasonal drought effects on ecosystem light use efficiency in a mediterranean forest using climatic and remote sensing data. , 2012, , .		1