

# GÃ¼nther Seufert

## List of Publications by Year in descending order

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74  
papers

13,813  
citations

53939

47  
h-index

90395

73  
g-index

81  
all docs

81  
docs citations

81  
times ranked

15575  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water requirements of short rotation poplar coppice: Experimental and modelling analyses across Europe. <i>Agricultural and Forest Meteorology</i> , 2018, 250-251, 343-360.	1.9	17
2	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.	1.1	14
3	Components, drivers and temporal dynamics of ecosystem respiration in a Mediterranean pine forest. <i>Soil Biology and Biochemistry</i> , 2015, 88, 224-235.	4.2	58
4	Forest conversion to poplar plantation in a Lombardy floodplain (Italy): effects on soil organic carbon stock. <i>Biogeosciences</i> , 2014, 11, 6483-6493.	1.3	20
5	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.	3.5	152
6	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.	1.4	12
7	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.	4.6	65
8	Tracking seasonal drought effects on ecosystem light use efficiency in a mediterranean forest using climatic and remote sensing data. , 2012, , .		1
9	Intercomparison of MODIS albedo retrievals and in situ measurements across the global FLUXNET network. <i>Remote Sensing of Environment</i> , 2012, 121, 323-334.	4.6	259
10	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.	4.6	44
11	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. <i>New Phytologist</i> , 2012, 194, 775-783.	3.5	111
12	Estimating heterotrophic and autotrophic soil respiration in a semi-natural forest of Lombardy, Italy. <i>Pedobiologia</i> , 2012, 55, 285-294.	0.5	38
13	Soil microbial community structure in a rice paddy field and its relationships to CH4 and N2O fluxes. <i>Nutrient Cycling in Agroecosystems</i> , 2012, 93, 35-50.	1.1	19
14	Thermal adaptation of net ecosystem exchange. <i>Biogeosciences</i> , 2011, 8, 1453-1463.	1.3	30
15	Seasonal trends and environmental controls of methane emissions in a rice paddy field in Northern Italy. <i>Biogeosciences</i> , 2011, 8, 3809-3821.	1.3	80
16	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
17	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010, 5, 034007.	2.2	137
18	Carbon concentrations and stocks in forest soils of Europe. <i>Forest Ecology and Management</i> , 2010, 260, 262-277.	1.4	148

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19	High resolution field spectroscopy measurements for estimating gross ecosystem production in a rice field. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 1283-1296.	1.9	116
20	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.	1.3	138
21	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.	2.1	41
22	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.	1.9	174
23	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.	2.5	104
24	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.	1.9	89
25	A new mass conservation approach to the study of CO <sub>2</sub> advection in an alpine forest. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	69
26	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.	1.1	100
27	Building a topological and geometrical model of poplar tree using portable on-ground scanning LIDAR. <i>Functional Plant Biology</i> , 2008, 35, 1080.	1.1	12
28	An approach to estimate carbon stocks change in forest carbon pools under the UNFCCC: the Italian case. <i>IForest</i> , 2008, 1, 86-95.	0.5	65
29	Allometric biomass and carbon factors database. <i>IForest</i> , 2008, 1, 107-113.	0.5	35
30	Determinants of terrestrial ecosystem carbon balance inferred from European eddy covariance flux sites. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	223
31	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.	1.9	509
32	Photosynthetic responses to elevated CO <sub>2</sub> and O <sub>3</sub> in <i>Quercus ilex</i> leaves at a natural CO <sub>2</sub> spring. <i>Environmental Pollution</i> , 2007, 147, 516-524.	3.7	20
33	Characterizing ecosystem-atmosphere interactions from short to interannual time scales. <i>Biogeosciences</i> , 2007, 4, 743-758.	1.3	42
34	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
35	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
36	An incentive mechanism for reducing emissions from conversion of intact and non-intact forests. <i>Climatic Change</i> , 2007, 83, 477-493.	1.7	89

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37	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.	2.7	341
38	Significant light and temperature dependent monoterpene emissions from European beech ( <i>Fagus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Geophysical Research, 2006, 111, .	3.3	75
39	Future scenarios of N <sub>2</sub> O and NO emissions from European forest soils. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	50
40	Factors controlling regional differences in forest soil emission of nitrogen oxides (NO and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,622 Td	1.3	205
41	N&lt;sub&gt;2&gt;O, NO and CH&lt;sub&gt;4&gt; exchange, and microbial N turnover over a Mediterranean pine forest soil. <i>Biogeosciences</i> , 2006, 3, 121-133.	1.3	94
42	Climatic Feedbacks and Desertification: The Mediterranean Model. <i>Journal of Climate</i> , 2005, 18, 684-701.	1.2	109
43	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
44	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
45	Inventories of N&lt;sub&gt;2&gt;O and NO emissions from European forest soils. <i>Biogeosciences</i> , 2005, 2, 353-375.	1.3	170
46	Modelling carbon budget of Mediterranean forests using ground and remote sensing measurements. <i>Agricultural and Forest Meteorology</i> , 2005, 135, 22-34.	1.9	97
47	Temperature and light dependence of Î <sup>2</sup> -caryophyllene emission rates. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	55
48	Stomatal Constraints May Affect Emission of Oxygenated Monoterpenoids from the Foliage of <i>Pinus pinea</i> . <i>Plant Physiology</i> , 2002, 130, 1371-1385.	2.3	96
49	On-line analysis of the 13 CO <sub>2</sub> labeling of leaf isoprene suggests multiple subcellular origins of isoprene precursors. <i>Planta</i> , 2002, 215, 894-905.	1.6	97
50	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.	3.5	92
51	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.	3.5	127
52	Monoterpene emission and monoterpene synthase activities in the Mediterranean evergreen oak <i>Quercus ilex</i> L. grown at elevated CO <sub>2</sub> concentrations. <i>Global Change Biology</i> , 2001, 7, 709-717.	4.2	135
53	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.	3.5	91
54	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 2000, 35, 77-99.	1.4	132

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55	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
56	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
57	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
58	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
59	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.	0.9	68
60	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.	2.8	230
61	Trace gas exchange over terrestrial ecosystems: methods and perspectives in micrometeorology. <i>Journal of Experimental Botany</i> , 1997, 48, 1133-1142.	2.4	88
62	General methods used during the Castelporziano campaigns. <i>Atmospheric Environment</i> , 1997, 31, 27-34.	1.9	35
63	Sampling and analysis of terpenes in air. An interlaboratory comparison. <i>Atmospheric Environment</i> , 1997, 31, 35-49.	1.9	70
64	Ecophysiological studies of Mediterranean plant species at the Castelporziano estate. <i>Atmospheric Environment</i> , 1997, 31, 51-60.	1.9	62
65	Seasonal and diurnal patterns of monoterpene emissions from <i>Pinus pinea</i> (L.) under field conditions. <i>Atmospheric Environment</i> , 1997, 31, 145-156.	1.9	167
66	Biogenic emission from the Mediterranean pseudosteppe ecosystem present in Castelporziano. <i>Atmospheric Environment</i> , 1997, 31, 167-175.	1.9	29
67	Fluxes of biogenic VOC from Mediterranean vegetation by trap enrichment relaxed eddy accumulation. <i>Atmospheric Environment</i> , 1997, 31, 229-238.	1.9	73
68	Scaling up the biogenic emissions from test sites at Castelporziano. <i>Atmospheric Environment</i> , 1997, 31, 239-250.	1.9	36
69	Volatile Organics in Mediterranean Shrubs and Their Potential Role in a Changing Environment. <i>Ecological Studies</i> , 1995, , 343-370.	0.4	25
70	Light-dependent emission of monoterpenes by holm oak ( <i>Quercus ilex</i> L.). <i>Die Naturwissenschaften</i> , 1995, 82, 89-92.	0.6	136
71	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.	3.7	18
72	Performance of some growth variables. <i>Environmental Pollution</i> , 1990, 68, 419-434.	3.7	9

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73	Experiments on canopy/soil leaching effects of air pollutants in model ecosystems with forest trees. Geo Journal, 1988, 17, 261-270.	1.7	6
74	Effect of SO <sub>2</sub> and O <sub>3</sub> on Production of Antioxidants in Conifers. Plant Physiology, 1986, 82, 336-338.	2.3	137