

# Gunther Seufert

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/5276725/gunther-seufert-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78  
papers

11,529  
citations

46  
h-index

81  
g-index

81  
ext. papers

12,636  
ext. citations

6.8  
avg. IF

4.98  
L-index

#	Paper	IF	Citations
78	Water requirements of short rotation poplar coppice: Experimental and modelling analyses across Europe. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 250-251, 343-360	5.8	12
77	Far from Naturalness: How Much Does Spatial Ecological Structure of European Tree Assemblages Depart from Potential Natural Vegetation?. <i>PLoS ONE</i> , <b>2016</b> , 11, e0165178	3.7	9
76	Components, drivers and temporal dynamics of ecosystem respiration in a Mediterranean pine forest. <i>Soil Biology and Biochemistry</i> , <b>2015</b> , 88, 224-235	7.5	46
75	Above-ground woody carbon sequestration measured from tree rings is coherent with net ecosystem productivity at five eddy-covariance sites. <i>New Phytologist</i> , <b>2014</b> , 201, 1289-1303	9.8	126
74	Monitoring water stress in Mediterranean semi-natural vegetation with satellite and meteorological data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2014</b> , 26, 246-255	7.3	12
73	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> , <b>2014</b> , 152, 279-290	13.2	47
72	Forest conversion to poplar plantation in a Lombardy floodplain (Italy): effects on soil organic carbon stock. <i>Biogeosciences</i> , <b>2014</b> , 11, 6483-6493	4.6	14
71	Intercomparison of MODIS albedo retrievals and in situ measurements across the global FLUXNET network. <i>Remote Sensing of Environment</i> , <b>2012</b> , 121, 323-334	13.2	221
70	Assessment of MODIS imagery to track light-use efficiency in a water-limited Mediterranean pine forest. <i>Remote Sensing of Environment</i> , <b>2012</b> , 123, 359-367	13.2	36
69	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. <i>New Phytologist</i> , <b>2012</b> , 194, 775-783	9.8	81
68	Estimating heterotrophic and autotrophic soil respiration in a semi-natural forest of Lombardy, Italy. <i>Pedobiologia</i> , <b>2012</b> , 55, 285-294	1.7	29
67	Soil microbial community structure in a rice paddy field and its relationships to CH <sub>4</sub> and N <sub>2</sub> O fluxes. <i>Nutrient Cycling in Agroecosystems</i> , <b>2012</b> , 93, 35-50	3.3	16
66	Thermal adaptation of net ecosystem exchange. <i>Biogeosciences</i> , <b>2011</b> , 8, 1453-1463	4.6	23
65	Seasonal trends and environmental controls of methane emissions in a rice paddy field in Northern Italy. <i>Biogeosciences</i> , <b>2011</b> , 8, 3809-3821	4.6	63
64	Semiempirical modeling of abiotic and biotic factors controlling ecosystem respiration across eddy covariance sites. <i>Global Change Biology</i> , <b>2011</b> , 17, 390-409	11.4	102
63	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , <b>2010</b> , 5, 034007	6.2	116
62	Carbon concentrations and stocks in forest soils of Europe. <i>Forest Ecology and Management</i> , <b>2010</b> , 260, 262-277	3.9	126

61	High resolution field spectroscopy measurements for estimating gross ecosystem production in a rice field. <i>Agricultural and Forest Meteorology</i> , <b>2010</b> , 150, 1283-1296	5.8	97
60	Modeling gross primary production of agro-forestry ecosystems by assimilation of satellite-derived information in a process-based model. <i>Sensors</i> , <b>2009</b> , 9, 922-42	3.8	33
59	Intra- and inter-annual variability of VOC emissions from natural and semi-natural vegetation in Europe and neighbouring countries. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 1380-1391	5.3	140
58	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> , <b>2009</b> , 133, 139-149	5.7	92
57	Seasonal and interannual patterns of carbon and water fluxes of a poplar plantation under peculiar eco-climatic conditions. <i>Agricultural and Forest Meteorology</i> , <b>2009</b> , 149, 1460-1476	5.8	74
56	A new mass conservation approach to the study of CO <sub>2</sub> advection in an alpine forest. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		49
55	A new European plant-specific emission inventory of biogenic volatile organic compounds for use in atmospheric transport models. <i>Biogeosciences</i> , <b>2009</b> , 6, 1059-1087	4.6	111
54	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> , <b>2008</b> , 35, 1047-1058	2.7	85
53	Building a topological and geometrical model of poplar tree using portable on-ground scanning LIDAR. <i>Functional Plant Biology</i> , <b>2008</b> , 35, 1080-1090	2.7	11
52	An approach to estimate carbon stocks change in forest carbon pools under the UNFCCC: the Italian case. <i>IForest</i> , <b>2008</b> , 1, 86-95	1.3	50
51	Allometric biomass and carbon factors database. <i>IForest</i> , <b>2008</b> , 1, 107-113	1.3	30
50	Characterizing ecosystem-atmosphere interactions from short to interannual time scales. <i>Biogeosciences</i> , <b>2007</b> , 4, 743-758	4.6	39
49	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> , <b>2007</b> , 13, 634-651	11.4	423
48	CO <sub>2</sub> balance of boreal, temperate, and tropical forests derived from a global database. <i>Global Change Biology</i> , <b>2007</b> , 13, 2509-2537	11.4	744
47	An incentive mechanism for reducing emissions from conversion of intact and non-intact forests. <i>Climatic Change</i> , <b>2007</b> , 83, 477-493	4.5	80
46	Determinants of terrestrial ecosystem carbon balance inferred from European eddy covariance flux sites. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	195
45	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> , <b>2007</b> , 143, 123-145	5.8	427
44	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> , <b>2007</b> , 147, 516-24	9.3	19

43	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> , <b>2006</b> , 44, 1804-1817	8.1	288
42	Significant light and temperature dependent monoterpene emissions from European beech ( <i>Fagus sylvatica</i> L.) and their potential impact on the European volatile organic compound budget. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		64
41	Future scenarios of N <sub>2</sub> O and NO emissions from European forest soils. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111, n/a-n/a		41
40	Factors controlling regional differences in forest soil emission of nitrogen oxides (NO and N <sub>2</sub> O). <i>Biogeosciences</i> , <b>2006</b> , 3, 651-661	4.6	173
39	N <sub>2</sub> O, NO and CH <sub>4</sub> exchange, and microbial N turnover over a Mediterranean pine forest soil. <i>Biogeosciences</i> , <b>2006</b> , 3, 121-133	4.6	90
38	Modelling carbon budget of Mediterranean forests using ground and remote sensing measurements. <i>Agricultural and Forest Meteorology</i> , <b>2005</b> , 135, 22-34	5.8	83
37	Climatic Feedbacks and Desertification: The Mediterranean Model. <i>Journal of Climate</i> , <b>2005</b> , 18, 684-701	4.4	94
36	On the separation of net ecosystem exchange into assimilation and ecosystem respiration: review and improved algorithm. <i>Global Change Biology</i> , <b>2005</b> , 11, 1424-1439	11.4	2253
35	Europe-wide reduction in primary productivity caused by the heat and drought in 2003. <i>Nature</i> , <b>2005</b> , 437, 529-33	50.4	2643
34	Inventories of N <sub>2</sub> O and NO emissions from European forest soils. <i>Biogeosciences</i> , <b>2005</b> , 2, 353-375	4.6	147
33	Temperature and light dependence of E Caryophyllene emission rates. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		42
32	On-line analysis of the (13)CO(2) labeling of leaf isoprene suggests multiple subcellular origins of isoprene precursors. <i>Planta</i> , <b>2002</b> , 215, 894-905	4.7	88
31	Monoterpene emissions in relation to foliar photosynthetic and structural variables in Mediterranean evergreen <i>Quercus</i> species. <i>New Phytologist</i> , <b>2002</b> , 153, 243-256	9.8	81
30	A model coupling foliar monoterpene emissions to leaf photosynthetic characteristics in Mediterranean evergreen <i>Quercus</i> species. <i>New Phytologist</i> , <b>2002</b> , 153, 257-275	9.8	100
29	Stomatal constraints may affect emission of oxygenated monoterpenoids from the foliage of <i>Pinus pinea</i> . <i>Plant Physiology</i> , <b>2002</b> , 130, 1371-85	6.6	85
28	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> , <b>2001</b> , 7, 709-717	11.4	119
27	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> , <b>2000</b> , 146, 27-36	9.8	73
26	Seasonal Variation in Amount and Composition of Monoterpenes Emitted by Young <i>Pinus pinea</i> Trees Implications for Emission Modeling. <i>Journal of Atmospheric Chemistry</i> , <b>2000</b> , 35, 77-99	3.2	108

25	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> , <b>1999</b> , 24, 673-680		3
24	Terpenoid emission from citrus sinensis (L.) OSBECK under drought stress. <i>Physics and Chemistry of the Earth</i> , <b>1999</b> , 24, 681-687		40
23	Monoterpene emission from soils in orange plantations of the valencian citrus belt, Spain. <i>Physics and Chemistry of the Earth</i> , <b>1999</b> , 24, 695-698		13
22	Ecophysiological characterization of citrus sinensis (L.) Osbeck and relationships with type and amount of biogenic emissions. <i>Physics and Chemistry of the Earth</i> , <b>1999</b> , 24, 699-703		5
21	A hypothesis on the evolution of isoprenoid emission by oaks based on the correlation between emission type and Quercus taxonomy. <i>Oecologia</i> , <b>1998</b> , 115, 302-305	2.9	65
20	On the monoterpene emission under heat stress and on the increased thermotolerance of leaves of Quercus ilex L. fumigated with selected monoterpenes. <i>Plant, Cell and Environment</i> , <b>1998</b> , 21, 101-107	8.4	190
19	Trace gas exchange over terrestrial ecosystems: methods and perspectives in micrometeorology. <i>Journal of Experimental Botany</i> , <b>1997</b> , 48, 1133-1142	7	84
18	General methods used during the Castelporziano campaigns. <i>Atmospheric Environment</i> , <b>1997</b> , 31, 27-34	5.3	32
17	Sampling and analysis of terpenes in air. An interlaboratory comparison. <i>Atmospheric Environment</i> , <b>1997</b> , 31, 35-49	5.3	66
16	Ecophysiological studies of Mediterranean plant species at the Castelporziano estate. <i>Atmospheric Environment</i> , <b>1997</b> , 31, 51-60	5.3	57
15	Seasonal and diurnal patterns of monoterpene emissions from Pinus pinea (L.) under field conditions. <i>Atmospheric Environment</i> , <b>1997</b> , 31, 145-156	5.3	148
14	Biogenic emission from the Mediterranean pseudosteppe ecosystem present in Castelporziano. <i>Atmospheric Environment</i> , <b>1997</b> , 31, 167-175	5.3	27
13	Fluxes of biogenic VOC from Mediterranean vegetation by trap enrichment relaxed eddy accumulation. <i>Atmospheric Environment</i> , <b>1997</b> , 31, 229-238	5.3	70
12	Scaling up the biogenic emissions from test sites at Castelporziano. <i>Atmospheric Environment</i> , <b>1997</b> , 31, 239-250	5.3	34
11	Volatile Organics in Mediterranean Shrubs and Their Potential Role in a Changing Environment. <i>Ecological Studies</i> , <b>1995</b> , 343-370	1.1	18
10	Light-dependent emission of monoterpenes by holm oak (Quercus ilex L.). <i>Die Naturwissenschaften</i> , <b>1995</b> , 82, 89-92	2	126
9	Monoterpene patterns of different tissues and plant parts of Norway spruce (Picea abies L. Karst.). <i>Environmental Pollution</i> , <b>1990</b> , 68, 367-75	9.3	14
8	Performance of some growth variables. <i>Environmental Pollution</i> , <b>1990</b> , 68, 419-34	9.3	7

7	Experiments on canopy/soil leaching effects of air pollutants in model ecosystems with forest trees. <i>Geo Journal</i> , <b>1988</b> , 17, 261-270	2.2	6
6	Effect of SO <sub>2</sub> and O <sub>3</sub> on Production of Antioxidants in Conifers. <i>Plant Physiology</i> , <b>1986</b> , 82, 336-8	6.6	131
5	Forest conversion to poplar plantation in a Lombardy floodplain (Italy): effects on soil organic carbon stock		2
4	Emission of monoterpenes from European beech ( <i>Fagus sylvatica</i> , L.) as a function of light and temperature		7
3	N <sub>2</sub> O, NO and CH <sub>4</sub> exchange, and microbial N turnover over a Mediterranean pine forest soil		10
2	Impact of 40 years poplar cultivation on soil carbon stocks and greenhouse gas fluxes		23
1	A new European plant-specific emission inventory of biogenic volatile organic compounds for use in atmospheric transport models		1