

# Maria Jose Sanz Sanchez

## List of Publications by Citations

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73  
papers

10,276  
citations

41  
h-index

81  
g-index

81  
ext. papers

11,247  
ext. citations

7.2  
avg, IF

4.8  
L-index

#	Paper	IF	Citations
73	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
72	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
71	CO2 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
70	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
69	Partitioning European grassland net ecosystem CO2 exchange into gross primary productivity and ecosystem respiration using light response function analysis. <i>Agriculture, Ecosystems and Environment</i> , <b>2007</b> , 121, 93-120	5.7	272
68	Spatial and temporal variations in airborne particulate matter (PM10 and PM2.5) across Spain 1999-2005. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 3964-3979	5.3	258
67	Promoting the O3 flux concept for European forest trees. <i>Environmental Pollution</i> , <b>2007</b> , 146, 587-607	9.3	163
66	Management effects on net ecosystem carbon and GHG budgets at European crop sites. <i>Agriculture, Ecosystems and Environment</i> , <b>2010</b> , 139, 363-383	5.7	158
65	Ozone Cycles in the Western Mediterranean Basin: Interpretation of Monitoring Data in Complex Coastal Terrain. <i>Journal of Applied Meteorology and Climatology</i> , <b>2000</b> , 39, 487-508		143
64	The long way from Kyoto to Marrakesh: Implications of the Kyoto Protocol negotiations for global ecology. <i>Global Change Biology</i> , <b>2002</b> , 8, 505-518	11.4	139
63	The net biome production of full crop rotations in Europe. <i>Agriculture, Ecosystems and Environment</i> , <b>2010</b> , 139, 336-345	5.7	132
62	Productivity, Respiration, and Light-Response Parameters of World Grassland and Agroecosystems Derived From Flux-Tower Measurements. <i>Rangeland Ecology and Management</i> , <b>2010</b> , 63, 16-39	2.2	117
61	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , <b>2010</b> , 5, 034007	6.2	116
60	Factoring out natural and indirect human effects on terrestrial carbon sources and sinks. <i>Environmental Science and Policy</i> , <b>2007</b> , 10, 370-384	6.2	115
59	Biotic, Abiotic, and Management Controls on the Net Ecosystem CO2 Exchange of European Mountain Grassland Ecosystems. <i>Ecosystems</i> , <b>2008</b> , 11, 1338-1351	3.9	102
58	Implications of the carbon cycle steady state assumption for biogeochemical modeling performance and inverse parameter retrieval. <i>Global Biogeochemical Cycles</i> , <b>2008</b> , 22, n/a-n/a	5.9	99
57	Atmospheric dynamics and ozone cycles related to nitrogen deposition in the western Mediterranean. <i>Environmental Pollution</i> , <b>2002</b> , 118, 167-86	9.3	99

56	A synopsis of land use, land-use change and forestry (LULUCF) under the Kyoto Protocol and Marrakech Accords. <i>Environmental Science and Policy</i> , <b>2007</b> , 10, 271-282	6.2	96
55	Climatic Feedbacks and Desertification: The Mediterranean Model. <i>Journal of Climate</i> , <b>2005</b> , 18, 684-701	4.4	94
54	The CarboEurope Regional Experiment Strategy. <i>Bulletin of the American Meteorological Society</i> , <b>2006</b> , 87, 1367-1380	6.1	91
53	Tracers and impact of open burning of rice straw residues on PM in Eastern Spain. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 1941-1957	5.3	86
52	Responses of evergreen and deciduous Quercus species to enhanced ozone levels. <i>Environmental Pollution</i> , <b>2011</b> , 159, 55-63	9.3	81
51	Comparison between tower and aircraft-based eddy covariance fluxes in five European regions. <i>Agricultural and Forest Meteorology</i> , <b>2004</b> , 127, 1-16	5.8	79
50	European scale application of atmospheric reactive nitrogen measurements in a low-cost approach to infer dry deposition fluxes. <i>Agriculture, Ecosystems and Environment</i> , <b>2009</b> , 133, 183-195	5.7	75
49	Foliar, Physiological and Growth Responses of Four Maple Species Exposed to Ozone. <i>Water, Air, and Soil Pollution</i> , <b>2007</b> , 185, 239-254	2.6	64
48	Observation and Confirmation of Foliar Ozone Symptoms of Native Plant Species of Switzerland and Southern Spain. <i>Water, Air, and Soil Pollution</i> , <b>1999</b> , 116, 227-234	2.6	64
47	Soil CO <sub>2</sub> efflux and extractable organic carbon fractions under simulated precipitation events in a Mediterranean Dehesa. <i>Soil Biology and Biochemistry</i> , <b>2009</b> , 41, 1915-1922	7.5	57
46	Mesoscale circulations over complex terrain in the Valencia coastal region, Spain [Part 2: Modeling CO <sub>2</sub> transport using idealized surface fluxes. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 1851-1868	6.8	57
45	Reconciling global-model estimates and country reporting of anthropogenic forest CO <sub>2</sub> sinks. <i>Nature Climate Change</i> , <b>2018</b> , 8, 914-920	21.4	57
44	Contrasting ozone sensitivity in related evergreen and deciduous shrubs. <i>Environmental Pollution</i> , <b>2010</b> , 158, 3580-7	9.3	54
43	Measures of ozone concentrations using passive sampling in forests of South Western Europe. <i>Environmental Pollution</i> , <b>2007</b> , 145, 620-8	9.3	52
42	Including land use, land-use change, and forestry in future climate change, agreements: thinking outside the box. <i>Environmental Science and Policy</i> , <b>2007</b> , 10, 283-294	6.2	52
41	Management effects on European cropland respiration. <i>Agriculture, Ecosystems and Environment</i> , <b>2010</b> , 139, 346-362	5.7	51
40	Mesoscale circulations over complex terrain in the Valencia coastal region, Spain [Part 1: Simulation of diurnal circulation regimes. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 1835-1849	6.8	51
39	Passive sampler for monitoring ambient nitric acid (HNO <sub>3</sub> ) and nitrous acid (HNO <sub>2</sub> ) concentrations. <i>Atmospheric Environment</i> , <b>2005</b> , 39, 2655-2660	5.3	50

38	Effects of ozone on the foliar histology of the mastic plant ( <i>Pistacia lentiscus</i> L.). <i>Environmental Pollution</i> , <b>2004</b> , 132, 321-31	9.3	49
37	Response of native plants of northeastern United States and southern Spain to ozone exposures; determining exposure/response relationships. <i>Environmental Pollution</i> , <b>2003</b> , 125, 31-40	9.3	46
36	Deciduous shrubs for ozone bioindication: <i>Hibiscus syriacus</i> as an example. <i>Environmental Pollution</i> , <b>2009</b> , 157, 865-70	9.3	44
35	Ozone pollution and ozone biomonitoring in European cities Part II. Ozone-induced plant injury and its relationship with descriptors of ozone pollution. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 7437-7448	5.3	44
34	Spatial pattern of ozone injury in Aleppo pine related to air pollution dynamics in a coastal-mountain region of eastern Spain. <i>Environmental Pollution</i> , <b>2000</b> , 108, 239-47	9.3	43
33	Atmospheric nitrogen deposition on the east coast of Spain: relevance of dry deposition in semi-arid Mediterranean regions. <i>Environmental Pollution</i> , <b>2002</b> , 118, 259-72	9.3	42
32	Airborne trace element pollution in 11 European cities assessed by exposure of standardised ryegrass cultures. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 329-339	5.3	40
31	Sensitivity analysis of a parameterization of the stomatal component of the DO3SE model for <i>Quercus ilex</i> to estimate ozone fluxes. <i>Environmental Pollution</i> , <b>2008</b> , 155, 473-80	9.3	39
30	Ozone pollution and ozone biomonitoring in European cities. Part I: Ozone concentrations and cumulative exposure indices at urban and suburban sites. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 7963-7974	5.3	39
29	<i>Tradescantia micronucleus</i> test indicates genotoxic potential of traffic emissions in European cities. <i>Environmental Pollution</i> , <b>2006</b> , 139, 515-22	9.3	39
28	EuroBionet: a pan-European biomonitoring network for urban air quality assessment. <i>Environmental Science and Pollution Research</i> , <b>2002</b> , 9, 199-203	5.1	39
27	Mitigating the effects of omission errors on area and area change estimates. <i>Remote Sensing of Environment</i> , <b>2020</b> , 236, 111492	13.2	39
26	PM10 speciation and determination of air quality target levels. A case study in a highly industrialized area of Spain. <i>Science of the Total Environment</i> , <b>2007</b> , 372, 382-96	10.2	38
25	<i>Psidium guajava</i> (the guava plant) as a new bio-indicator of ozone in the tropics. <i>Environmental Pollution</i> , <b>2007</b> , 147, 691-5	9.3	38
24	Use of an inverse dispersion technique for estimating ammonia emission from surface-applied slurry. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 999-1002	5.3	37
23	Studies on the structure of the plant wax nonacosan-10-ol, the main component of epicuticular wax conifers. <i>International Journal of Biological Macromolecules</i> , <b>2003</b> , 33, 31-5	7.9	37
22	Chlorophyll A Fluorescence and Chlorophyll Content in <i>Parmelia Quercina</i> Thalli from a Polluted Region of Northern Castellon (Spain). <i>Lichenologist</i> , <b>1996</b> , 28, 49-65	1.1	37
21	Impact of the implementation of PM abatement technology on the ambient air levels of metals in a highly industrialised area. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 1026-1040	5.3	33

20	Tibouchina pulchra (Cham.) Cogn., a native Atlantic Forest species, as a bio-indicator of ozone: visible injury. <i>Environmental Pollution</i> , <b>2008</b> , 152, 361-5	9.3	30
19	Ozone Sensitivity Differences in Five Tomato Cultivars: Visible Injury and Effects on Biomass and Fruits. <i>Water, Air, and Soil Pollution</i> , <b>2007</b> , 186, 167-181	2.6	29
18	The dynamics of aged airmasses and ozone in the Western Mediterranean: Relevance to forest ecosystems. <i>Chemosphere</i> , <b>1998</b> , 36, 1089-1094	8.4	27
17	UV-induced NO <sub>y</sub> emissions from Scots pine: Could they originate from photolysis of deposited HNO <sub>3</sub> ?. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 6201-6213	5.3	26
16	Dose-response relationships for SO fumigations in the lichens Evernia prunastri (L.) Ach. and Ramalina fraxinea (L.) Ach. <i>New Phytologist</i> , <b>1992</b> , 122, 313-319	9.8	24
15	Adjustment of annual NEE and ET for the open-path IRGA self-heating correction: Magnitude and approximation over a range of climate. <i>Agricultural and Forest Meteorology</i> , <b>2011</b> , 151, 1856-1861	5.8	21
14	Physiological, anatomical and biomass partitioning responses to ozone in the Mediterranean endemic plant Lamottea diana. <i>Ecotoxicology and Environmental Safety</i> , <b>2011</b> , 74, 1131-8	7	21
13	Visible and microscopic needle alterations of mature Aleppo pine (Pinus halepensis) trees growing on an ozone gradient in eastern Spain. <i>Tree Physiology</i> , <b>2010</b> , 30, 541-54	4.2	21
12	The uptake of gaseous sulphur dioxide by non-gelatinous lichens. <i>New Phytologist</i> , <b>1997</b> , 135, 595-602	9.8	19
11	Physiological responses of saplings of Caesalpinia echinata Lam., a Brazilian tree species, under ozone fumigation. <i>Ecotoxicology and Environmental Safety</i> , <b>2006</b> , 63, 306-12	7	18
10	Ozone Biomonitoring with Bel-W3 Tobacco Plants in the City of Valencia (Spain). <i>Water, Air, and Soil Pollution</i> , <b>2007</b> , 183, 283-291	2.6	14
9	Photosynthetic Responses of Tropical Trees to Short-Term Exposure to Ozone. <i>Photosynthetica</i> , <b>2004</b> , 42, 291-293	2.2	13
8	Lichenopyrenis galligena (Pleomassariaceae), a new genus of gall-forming lichenicolous fungi on Leptochidium. <i>Mycological Research</i> , <b>2001</b> , 105, 634-637		13
7	CarbonNitrogen interactions in European forests and semi-natural vegetation [Part 1: Fluxes and budgets of carbon, nitrogen and greenhouse gases from ecosystem monitoring and modelling. <i>Biogeosciences</i> , <b>2020</b> , 17, 1583-1620	4.6	12
6	Financing and current capacity for REDD+ readiness and monitoring, measurement, reporting and verification in the Congo Basin. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 368, 20120310	5.8	12
5	CarbonNitrogen interactions in European forests and semi-natural vegetation [Part 2: Untangling climatic, edaphic, management and nitrogen deposition effects on carbon sequestration potentials. <i>Biogeosciences</i> , <b>2020</b> , 17, 1621-1654	4.6	8
4	Ozone effects on three Sambucus species. <i>Environmental Monitoring and Assessment</i> , <b>2007</b> , 128, 83-91	3.1	7
3	Using manure to compensate ozone-induced yield loss in potato plants cultivated in the east of Spain. <i>Agriculture, Ecosystems and Environment</i> , <b>2009</b> , 131, 185-192	5.7	6

- 2 Winter respiratory C losses provide explanatory power for net ecosystem productivity. *Journal of Geophysical Research G: Biogeosciences*, **2017**, 122, 243-260 3-7 5
- 1 Analysis of molecular markers in three different tomato cultivars exposed to ozone stress. *Plant Cell Reports*, **2008**, 27, 197-207 5-1 4