Marta GarcÃa Vivanco

List of Publications by Year
in descending order

52 papers	2,285 citations	236833 25 h-index	233338 45 g-index
56 all docs	56 docs citations	56 times ranked	3318 citing authors

#	Article	IF	Citations
1	Multimodel estimates of intercontinental source–receptor relationships for ozone pollution. Journal of Geophysical Research, 2009, 114, .	3.3	430
2	CHIMERE 2013: a model for regional atmospheric composition modelling. Geoscientific Model Development, 2013, 6, 981-1028.	1.3	392
3	The influence of foreign vs. North American emissions on surface ozone in the US. Atmospheric Chemistry and Physics, 2009, 9, 5027-5042.	1.9	141
4	Intercontinental Impacts of Ozone Pollution on Human Mortality. Environmental Science & Technology, 2009, 43, 6482-6487.	4.6	126
5	Presentation of the EURODELTA III intercomparison exercise – evaluation of the chemistry transport models' performance on criteria pollutants and joint analysis with meteorology. Atmospheric Chemistry and Physics, 2016, 16, 12667-12701.	1.9	109
6	Evaluation and error apportionment of an ensemble of atmospheric chemistry transport modeling systems: multivariable temporal and spatial breakdown. Atmospheric Chemistry and Physics, 2017, 17, 3001-3054.	1.9	69
7	Assessment and economic valuation of air pollution impacts on human health over Europe and the United States as calculated by a multi-model ensemble in the framework of AQMEII3. Atmospheric Chemistry and Physics, 2018, 18, 5967-5989.	1.9	68
8	Factors influencing the foliar elemental composition and stoichiometry in forest trees in Spain. Perspectives in Plant Ecology, Evolution and Systematics, 2016, 18, 52-69.	1.1	55
9	Validation of the emission inventory in the Sao Paulo Metropolitan Area of Brazil, based on ambient concentrations ratios of CO, NMOG and NOx and on a photochemical model. Atmospheric Environment, 2006, 40, 1189-1198.	1.9	51
10	Nitrogen deposition alters nitrogen cycling and reduces soil carbon content in low-productivity semiarid Mediterranean ecosystems. Environmental Pollution, 2013, 179, 185-193.	3.7	50
11	Nitrogen deposition in Spain: Modeled patterns and threatened habitats within the Natura 2000 network. Science of the Total Environment, 2014, 485-486, 450-460.	3.9	49
12	Modelling the influence of peri-urban trees in the air quality of Madrid region (Spain). Environmental Pollution, 2011, 159, 2138-2147.	3.7	48
13	Caliope: an operational air quality forecasting system for the Iberian Peninsula, Balearic Islands and Canary Islands – first annual evaluation and ongoing developments. Advances in Science and Research, 2008, 2, 89-98.	1.0	48
14	Modeled deposition of nitrogen and sulfur in Europe estimated by 14 air quality model systems: evaluation, effects of changes in emissions and implications for habitat protection. Atmospheric Chemistry and Physics, 2018, 18, 10199-10218.	1.9	47
15	A multi-model comparison of meteorological drivers of surface ozone over Europe. Atmospheric Chemistry and Physics, 2018, 18, 12269-12288.	1.9	42
16	Multi-year assessment of photochemical air quality simulation over Spain. Environmental Modelling and Software, 2009, 24, 63-73.	1.9	41
17	EURODELTA-Trends, a multi-model experiment of air quality hindcast in Europe over 1990–2010. Geoscientific Model Development, 2017, 10, 3255-3276.	1.3	41
18	An evaluation of European nitrogen and sulfur wet deposition and their trends estimated by six chemistry transport models for the period 1990–2010. Atmospheric Chemistry and Physics, 2019, 19, 379-405.	1.9	41

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19	Evaluation of receptor and chemical transport models for PM10 source apportionment. Atmospheric Environment: X, 2020, 5, 100053.	0.8	41
20	Development of an inorganic and organic aerosol model (CHIMERE) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (2017&lt;i&g Model Development, 2018, 11, 165-194.	1.3	36
21	Influence of anthropogenic emissions and boundary conditions on multi-model simulations of major air pollutants over Europe and North America in the framework of AQMEII3. Atmospheric Chemistry and Physics, 2018, 18, 8929-8952.	1.9	32
22	Biogeochemical indicators of elevated nitrogen deposition in semiarid Mediterranean ecosystems. Environmental Monitoring and Assessment, 2014, 186, 5831-5842.	1.3	30
23	SOA formation in a photoreactor from a mixture of organic gases and HONO for different experimental conditions. Atmospheric Environment, 2011, 45, 708-715.	1.9	29
24	Trends of inorganic and organic aerosols and precursor gases in Europe: insights from the EURODELTA multi-model experiment over the 1990â€"2010 period. Geoscientific Model Development, 2019, 12, 4923-4954.	1.3	29
25	Joint analysis of deposition fluxes and atmospheric concentrations of inorganic nitrogen and sulphur compounds predicted by six chemistry transport models in the frame of the EURODELTAIII project. Atmospheric Environment, 2017, 151, 152-175.	1.9	27
26	Analysis of the spatial representativeness of rural background monitoring stations in Spain. Atmospheric Pollution Research, 2014, 5, 779-788.	1.8	25
27	Modelling black carbon absorption of solar radiation: combining external and internal mixing assumptions. Atmospheric Chemistry and Physics, 2019, 19, 181-204.	1.9	24
28	Advanced error diagnostics of the CMAQ and Chimere modelling systems within the AQMEII3 model evaluation framework. Atmospheric Chemistry and Physics, 2017, 17, 10435-10465.	1.9	22
29	SO<SUB align="right">2 effect on secondary organic aerosol from a mixture of anthropogenic VOCs: experimental and modelled results. International Journal of Environment and Pollution, 2012, 50, 224.	0.2	12
30	Modelling Some Heavy Metals Air Concentration in Europe. Water, Air, and Soil Pollution, 2012, 223, 5227-5242.	1.1	12
31	Regional surface temperature simulations over the Iberian Peninsula: evaluation and climate projections. Climate Dynamics, 2020, 55, 3445-3468.	1.7	12
32	EURODELTA III exercise: An evaluation of air quality modelsâ€™ capacity to reproduce the carbonaceous aerosol. Atmospheric Environment: X, 2019, 2, 100018.	0.8	11
33	Combination of measured and modelling data in air quality assessment in Spain. International Journal of Environment and Pollution, 2012, 49, 36.	0.2	10
34	Evaluation of CMAQ parameterizations for SOA formation from the photooxidation of Î±-pinene and limonene against smog chamber data. Atmospheric Environment, 2012, 56, 236-245.	1.9	10
35	Two-scale multi-model ensemble: is a hybrid ensemble of opportunity telling us more?. Atmospheric Chemistry and Physics, 2018, 18, 8727-8744.	1.9	10
36	Simulating secondary organic aerosol from anthropogenic and biogenic precursors: comparison to outdoor chamber experiments, effect of oligomerization on SOA formation and reactive uptake of aldehydes. Atmospheric Chemistry and Physics, 2018, 18, 15743-15766.	1.9	9

#	Article	IF	Citations
37	Benefit Analysis of the 1st Spanish Air Pollution Control Programme on Health Impacts and Associated Externalities. Atmosphere, 2021, 12, 32.	1.0	9
38	Modelling Arsenic, Lead, Cadmium and Nickel Ambient Air Concentrations in Spain. , 2011, , .		5
39	Experimental data on SOA formation from mixtures of anthropogenic and biogenic organic compounds. Atmosfera, 2013, 26, 59-73.	0.3	5
40	DepÃ³sito atmosfÃ©rico de nitrÃ³geno en EspaÃ±a y evaluaciÃ³n del riesgo de efectos en los hÃ¡bitats terrestres de la Red de Parques Nacionales. Ecosistemas, 2017, 26, 55-65.	0.2	5
41	Relation between ozone levels and NOx and VOC emissions in the Sao Paulo Metropolitan Area for an episode of August, 1998. International Journal of Environment and Pollution, 2008, 35, 90.	0.2	4
42	Implementation in CHIMERE of a conservative solver for the advection equationâ€"cmmse10. Journal of Computational and Applied Mathematics, 2012, 236, 3026-3033.	1.1	4
43	A chromatographic method to analyze products from photo-oxidation of anthropogenic and biogenic mixtures of volatile organic compounds in smog chambers. Talanta, 2013, 106, 20-28.	2.9	4
44	Evaluating the Impact of Resolution on the Predictions of an Air Quality Model over Madrid Area (Spain). Studies in Computational Intelligence, 2011, , 145-162.	0.7	3
45	Evaluation of some SOA formation schemes for the oxidation of anthropogenic gases against experiments in two outdoor chambers. International Journal of Environment and Pollution, 2016, 59, 43.	0.2	2
46	An exploratory performance assessment of the CHIMERE model (version 2017r4) for the northwestern Iberian Peninsula and the summer season. Geoscientific Model Development, 2020, 13, 3947-3973.	1.3	2
47	Evaluation of the CHIMERE model estimating wet deposition in Spain. International Journal of Environment and Pollution, 2015, 57, 261.	0.2	1
48	ModelizaciÃ³n de las fracciones gruesa y fina de Pb, Cd, As y Ni en el aire en EspaÃ±a. FÃsica De La Tierra, 2016, 27, .	0.1	1
49	An evaluation of SOA modelling in the Madrid metropolitan area. , 2008, , .		1
50	Evaluation of SOA Formation Using a Box Model Version of CMAQ and Chamber Experimental Data. Lecture Notes in Computer Science, 2011, , 374-386.	1.0	1
51	A Comparison of Different Advective Solvers in the CHIMERE Air Quality Model. Lecture Notes in Computer Science, 2011, , 35-49.	1.0	0
52	Multi-model Assessment of Air Pollution-Related Premature Mortality in Europe and U.S.: Domestic Versus Foreign Contributions. Springer Proceedings in Complexity, 2020, , 461-467.	0.2	0