

# Mara Cruz Minguilln

## List of Publications by Year in Descending Order

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

95  
papers

4,807  
citations

38  
h-index

68  
g-index

127  
ext. papers

5,554  
ext. citations

6.6  
avg, IF

5.32  
L-index

#	Paper	IF	Citations
95	European Aerosol Phenomenology - 8: Harmonised Source Apportionment of Organic Aerosol using 22 Year-long ACSM/AMS Datasets. <i>Environment International</i> , <b>2022</b> , 107325	12.9	1
94	How can ventilation be improved on public transportation buses? Insights from CO measurements. <i>Environmental Research</i> , <b>2021</b> , 112451	7.9	5
93	A European aerosol phenomenology - 7: High-time resolution chemical characteristics of submicron particulate matter across Europe. <i>Atmospheric Environment: X</i> , <b>2021</b> , 10, 100108	2.8	8
92	Intercomparison and characterization of 23 Aethalometers under laboratory and ambient air conditions: procedures and unit-to-unit variabilities. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 3195-3216	4	5
91	Organophosphate esters in airborne particles from subway stations. <i>Science of the Total Environment</i> , <b>2021</b> , 769, 145105	10.2	5
90	Increase in secondary organic aerosol in an urban environment. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 8323-8339	6.8	5
89	Quantifying traffic, biomass burning and secondary source contributions to atmospheric particle number concentrations at urban and suburban sites. <i>Science of the Total Environment</i> , <b>2021</b> , 768, 145282	10.2	8
88	Compositional changes of PM in NE Spain during 2009-2018: A trend analysis of the chemical composition and source apportionment. <i>Science of the Total Environment</i> , <b>2021</b> , 795, 148728	10.2	4
87	Source apportionment of highly time-resolved elements during a firework episode from a rural freeway site in Switzerland. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 1657-1674	6.8	18
86	Changes in air quality during the lockdown in Barcelona (Spain) one month into the SARS-CoV-2 epidemic. <i>Science of the Total Environment</i> , <b>2020</b> , 726, 138540	10.2	425
85	Molecular insights into new particle formation in Barcelona, Spain. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 10029-10045	6.8	14
84	Evaluation of the Semi-Continuous OCEC analyzer performance with the EUSAAR2 protocol. <i>Science of the Total Environment</i> , <b>2020</b> , 747, 141266	10.2	10
83	Source apportionment of highly time resolved trace elements during a firework episode from a rural freeway site in Switzerland <b>2019</b> ,		2
82	Source apportionment of urban PM in Barcelona during SAPUSS using organic and inorganic components. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 32114-32127	5.1	6
81	Vertical and horizontal fall-off of black carbon and NO within urban blocks. <i>Science of the Total Environment</i> , <b>2019</b> , 686, 236-245	10.2	10
80	Effects of two different biogenic emission models on modelled ozone and aerosol concentrations in Europe. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 3747-3768	6.8	21
79	Health risk assessment from exposure to particles during packing in working environments. <i>Science of the Total Environment</i> , <b>2019</b> , 671, 474-487	10.2	10

78	Development of a versatile source apportionment analysis based on positive matrix factorization: a case study of the seasonal variation of organic aerosol sources in Estonia. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 7279-7295	6.8	11
77	Sources of organic aerosols in Europe: a modeling study using CAMx with modified volatility basis set scheme. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 15247-15270	6.8	16
76	Aerosol sources in subway environments. <i>Environmental Research</i> , <b>2018</b> , 167, 314-328	7.9	28
75	Assessment of air quality microsensors versus reference methods: The EuNetAir Joint Exercise II Part II. <i>Atmospheric Environment</i> , <b>2018</b> , 193, 127-142	5.3	49
74	Air Quality in Subway Systems <b>2018</b> , 289-321		3
73	The effect of ventilation protocols on airborne particulate matter in subway systems. <i>Science of the Total Environment</i> , <b>2017</b> , 584-585, 1317-1323	10.2	33
72	Factors controlling particle number concentration and size at metro stations. <i>Atmospheric Environment</i> , <b>2017</b> , 156, 169-181	5.3	21
71	Formation and alteration of airborne particles in the subway environment. <i>Environmental Sciences: Processes and Impacts</i> , <b>2017</b> , 19, 59-64	4.3	11
70	Organic aerosol source apportionment by offline-AMS over a full year in Marseille <b>2017</b> ,		3
69	Oxidative potential of subway PM <sub>2.5</sub> . <i>Atmospheric Environment</i> , <b>2017</b> , 148, 230-238	5.3	44
68	Bioaerosols in the Barcelona subway system. <i>Indoor Air</i> , <b>2017</b> , 27, 564-575	5.4	32
67	Phenomenology of high-ozone episodes in NE Spain. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 2817-2838	7.8	33
66	Organic aerosol source apportionment by offline-AMS over a full year in Marseille. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 8247-8268	6.8	54
65	Characterisation of Airborne Particulate Matter in Different European Subway Systems <b>2017</b> ,		1
64	Elemental composition of ambient aerosols measured with high temporal resolution using an online XRF spectrometer. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 2061-2076	4	51
63	Origin of inorganic and organic components of PM <sub>2.5</sub> in subway stations of Barcelona, Spain. <i>Environmental Pollution</i> , <b>2016</b> , 208, 125-136	9.3	74
62	Urban case studies: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 189, 473-514	3.6	1
61	Vertical and horizontal variability of PM <sub>2.5</sub> source contributions in Barcelona during SAPUSS. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 6785-6804	6.8	9

60	Detection of Saharan dust and biomass burning events using near-real-time intensive aerosol optical properties in the north-western Mediterranean. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 12567-12586	6.8	40
59	AIRUSE-LIFE+: a harmonized PM speciation and source apportionment in five southern European cities. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 3289-3309	6.8	191
58	Factors controlling air quality in different European subway systems. <i>Environmental Research</i> , <b>2016</b> , 146, 35-46	7.9	99
57	Secondary organic aerosol origin in an urban environment: influence of biogenic and fuel combustion precursors. <i>Faraday Discussions</i> , <b>2016</b> , 189, 337-59	3.6	33
56	Assessment of air quality microsensors versus reference methods: The EuNetAir joint exercise. <i>Atmospheric Environment</i> , <b>2016</b> , 147, 246-263	5.3	137
55	New particle formation at ground level and in the vertical column over the Barcelona area. <i>Atmospheric Research</i> , <b>2015</b> , 164-165, 118-130	5.4	29
54	Exposure to airborne particulate matter in the subway system. <i>Science of the Total Environment</i> , <b>2015</b> , 511, 711-22	10.2	99
53	PM <sub>10</sub> concentration in urban atmosphere around the eastern Tien Shan, Central Asia during 2007-2013. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 6864-76	5.1	6
52	Deposition of aerosol particles from a subway microenvironment in the human respiratory tract. <i>Journal of Aerosol Science</i> , <b>2015</b> , 90, 103-113	4.3	47
51	Variability of aerosols and chemical composition of PM <sub>10</sub> , PM <sub>2.5</sub> and PM <sub>1</sub> on a platform of the Prague underground metro. <i>Atmospheric Environment</i> , <b>2015</b> , 118, 176-183	5.3	35
50	Urban air quality comparison for bus, tram, subway and pedestrian commutes in Barcelona. <i>Environmental Research</i> , <b>2015</b> , 142, 495-510	7.9	105
49	Joint analysis of continental and regional background environments in the western Mediterranean: PM <sub>10</sub> and PM <sub>2.5</sub> concentrations and composition. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 1129-1145	6.8	22
48	Chemical characterization of submicron regional background aerosols in the western Mediterranean using an Aerosol Chemical Speciation Monitor. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 6379-6391	6.8	50
47	ACTRIS ACSM intercomparison [Part 1: Reproducibility of concentration and fragment results from 13 individual Quadrupole Aerosol Chemical Speciation Monitors (Q-ACSM) and consistency with co-located instruments. <i>Atmospheric Measurement Techniques</i> , <b>2015</b> , 8, 5063-5087	4	79
46	ACTRIS ACSM intercomparison [Part 2: Intercomparison of ME-2 organic source apportionment results from 15 individual, co-located aerosol mass spectrometers. <i>Atmospheric Measurement Techniques</i> , <b>2015</b> , 8, 2555-2576	4	92
45	Road traffic and sandy playground influence on ambient pollutants in schools. <i>Atmospheric Environment</i> , <b>2015</b> , 111, 94-102	5.3	5
44	Long-term real-time chemical characterization of submicron aerosols at Montsec (southern Pyrenees, 1570 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 2935-2951	6.8	54
43	A new look at inhalable metalliferous airborne particles on rail subway platforms. <i>Science of the Total Environment</i> , <b>2015</b> , 505, 367-75	10.2	77

42	Spatial variability of trace elements and sources for improved exposure assessment in Barcelona. <i>Atmospheric Environment</i> , <b>2014</b> , 89, 268-281	5.3	51
41	Mass concentration, composition and sources of fine and coarse particulate matter in Tijuana, Mexico, during Cal-Mex campaign. <i>Atmospheric Environment</i> , <b>2014</b> , 88, 320-329	5.3	27
40	Subway platform air quality: Assessing the influences of tunnel ventilation, train piston effect and station design. <i>Atmospheric Environment</i> , <b>2014</b> , 92, 461-468	5.3	105
39	2001-2012 trends on air quality in Spain. <i>Science of the Total Environment</i> , <b>2014</b> , 490, 957-69	10.2	95
38	Effects of sources and meteorology on particulate matter in the Western Mediterranean Basin: An overview of the DAURE campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 4978-5010	4.4	33
37	Three years of aerosol mass, black carbon and particle number concentrations at Montsec (southern Pyrenees, 1570 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 4279-4295	6.8	28
36	Particulate air pollution and preeclampsia: a source-based analysis. <i>Occupational and Environmental Medicine</i> , <b>2014</b> , 71, 570-7	2.1	34
35	Origin of PM10 Pollution Episodes in an Industrialized Mega-City in Central China. <i>Aerosol and Air Quality Research</i> , <b>2014</b> , 14, 338-346	4.6	6
34	Air quality comparison between two European ceramic tile clusters. <i>Atmospheric Environment</i> , <b>2013</b> , 74, 311-319	5.3	15
33	Variability of carbonaceous aerosols in remote, rural, urban and industrial environments in Spain: implications for air quality policy. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 6185-6206	6.8	80
32	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 8991-9019	6.8	22
31	Mitigation strategies: Castelló, Spain <b>2013</b> , 150-160		1
30	PM: environmental monitoring and mitigation <b>2013</b> , 2-6		
29	Source apportionment of indoor, outdoor and personal PM2.5 exposure of pregnant women in Barcelona, Spain. <i>Atmospheric Environment</i> , <b>2012</b> , 59, 426-436	5.3	60
28	Organic compounds in aerosols from selected European sites [Biogenic versus anthropogenic sources. <i>Atmospheric Environment</i> , <b>2012</b> , 59, 243-255	5.3	50
27	Fine and coarse PM composition and sources in rural and urban sites in Switzerland: local or regional pollution?. <i>Science of the Total Environment</i> , <b>2012</b> , 427-428, 191-202	10.2	81
26	Within-city contrasts in PM composition and sources and their relationship with nitrogen oxides. <i>Journal of Environmental Monitoring</i> , <b>2012</b> , 14, 2718-28		15
25	On the isolation of OC and EC and the optimal strategy of radiocarbon-based source apportionment of carbonaceous aerosols. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 10841-10856	6.8	99

24	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 12067-12084	6.8	133
23	Source apportionment of size and time resolved trace elements and organic aerosols from an urban courtyard site in Switzerland. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 8945-8963	6.8	84
22	Organic compound characterization and source apportionment of indoor and outdoor quasi-ultrafine particulate matter in retirement homes of the Los Angeles Basin. <i>Indoor Air</i> , <b>2010</b> , 20, 17-30	5.4	62
21	Quantitative sampling and analysis of trace elements in atmospheric aerosols: impactor characterization and Synchrotron-XRF mass calibration. <i>Atmospheric Measurement Techniques</i> , <b>2010</b> , 3, 1473-1485	4	28
20	Inter- and Intra-Community Variability in Continuous Coarse Particulate Matter (PM <sub>10-2.5</sub> ) Concentrations in the Los Angeles Area. <i>Aerosol Science and Technology</i> , <b>2010</b> , 44, 526-540	3.4	12
19	Variations in vanadium, nickel and lanthanoid element concentrations in urban air. <i>Science of the Total Environment</i> , <b>2010</b> , 408, 4569-79	10.2	127
18	Impact of fugitive emissions in ambient PM levels and composition: a case study in Southeast Spain. <i>Science of the Total Environment</i> , <b>2010</b> , 408, 4999-5009	10.2	37
17	Effect of ceramic industrial particulate emission control on key components of ambient PM <sub>10</sub> . <i>Journal of Environmental Management</i> , <b>2009</b> , 90, 2558-67	7.9	38
16	Application of optimally scaled target factor analysis for assessing source contribution of ambient PM <sub>10</sub> . <i>Journal of the Air and Waste Management Association</i> , <b>2009</b> , 59, 1296-307	2.4	58
15	Spatial and temporal variations in airborne particulate matter (PM <sub>10</sub> and PM <sub>2.5</sub> ) across Spain 1999-2005. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 3964-3979	5.3	258
14	Inter-comparison of receptor models for PM source apportionment: Case study in an industrial area. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 3820-3832	5.3	119
13	Seasonal and spatial variations of sources of fine and quasi-ultrafine particulate matter in neighborhoods near the Los Angeles Long Beach harbor. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 7317-7328	5.3	70
12	Receptor models application to multi-year ambient PM <sub>10</sub> measurements in an industrialized ceramic area: Comparison of source apportionment results. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 9007-9017	5.3	28
11	Lanthanoid geochemistry of urban atmospheric particulate matter. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 6502-7	10.3	77
10	Spatial and temporal variations in inhalable CuZnPb aerosols within the Mexico City pollution plume. <i>Journal of Environmental Monitoring</i> , <b>2008</b> , 10, 370-8		20
9	PM sources in a highly industrialised area in the process of implementing PM abatement technology. Quantification and evolution. <i>Journal of Environmental Monitoring</i> , <b>2007</b> , 9, 1071-81		27
8	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
7	Recreational atmospheric pollution episodes: Inhalable metalliferous particles from firework displays. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 913-922	5.3	132

6	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
5	Source origin of trace elements in PM from regional background, urban and industrial sites of Spain. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 7219-7231	5.3	330
4	Chemical characterization of submicron regional background aerosols in the Western Mediterranean using an Aerosol Chemical Speciation Monitor		4
3	Thermal-optical analysis for the measurement of elemental carbon (EC) and organic carbon (OC) in ambient air a literature review		54
2	Long-term real-time chemical characterization of submicron aerosols at Montsec (Southern Pyrenees, 1570 m a.s.l.)		1
1	Three years of aerosol mass, black carbon and particle number concentrations at Montsec (southern~Pyrenees, 1570 m a.s.l.)		1