Mara Cruz Minguilln

List of Publications by Citations

95	4,807	38	68
papers	citations	h-index	g-index

127	5,554	6.6	5.32
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
95	Changes in air quality during the lockdown in Barcelona (Spain) one month into the SARS-CoV-2 epidemic. *Science of the Total Environment*, **2020**, 726, 138540	10.2	425
94	Source origin of trace elements in PM from regional background, urban and industrial sites of Spain. *Atmospheric Environment*, **2007**, 41, 7219-7231	5.3	330
93	Spatial and temporal variations in airborne particulate matter (PM10 and PM2.5) across Spain 1999–2005. *Atmospheric Environment*, **2008**, 42, 3964-3979	5.3	258
92	AIRUSE-LIFE+: a harmonized PM speciation and source apportionment in five southern European cities. *Atmospheric Chemistry and Physics*, **2016**, 16, 3289-3309	6.8	191
91	Assessment of air quality microsensors versus reference methods: The EuNetAir joint exercise. *Atmospheric Environment*, **2016**, 147, 246-263	5.3	137
90	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain. *Atmospheric Chemistry and Physics*, **2011**, 11, 12067-12084	6.8	133
89	Recreational atmospheric pollution episodes: Inhalable metalliferous particles from firework displays. *Atmospheric Environment*, **2007**, 41, 913-922	5.3	132
88	Variations in vanadium, nickel and lanthanoid element concentrations in urban air. *Science of the Total Environment*, **2010**, 408, 4569-79	10.2	127
87	Inter-comparison of receptor models for PM source apportionment: Case study in an industrial area. *Atmospheric Environment*, **2008**, 42, 3820-3832	5.3	119
86	Urban air quality comparison for bus, tram, subway and pedestrian commutes in Barcelona. *Environmental Research*, **2015**, 142, 495-510	7.9	105
85	Subway platform air quality: Assessing the influences of tunnel ventilation, train piston effect and station design. *Atmospheric Environment*, **2014**, 92, 461-468	5.3	105
84	Exposure to airborne particulate matter in the subway system. *Science of the Total Environment*, **2015**, 511, 711-22	10.2	99
83	Factors controlling air quality in different European subway systems. *Environmental Research*, **2016**, 146, 35-46	7.9	99
82	On the isolation of OC and EC and the optimal strategy of radiocarbon-based source apportionment of carbonaceous aerosols. *Atmospheric Chemistry and Physics*, **2012**, 12, 10841-10856	6.8	99
81	2001-2012 trends on air quality in Spain. *Science of the Total Environment*, **2014**, 490, 957-69	10.2	95
80	ACTRIS ACSM intercomparison – Part 2: Intercomparison of ME-2 organic source apportionment results from 15 individual, co-located aerosol mass spectrometers. *Atmospheric Measurement Techniques*, **2015**, 8, 2555-2576	4	92
79	Source apportionment of size and time resolved trace elements and organic aerosols from an urban courtyard site in Switzerland. *Atmospheric Chemistry and Physics*, **2011**, 11, 8945-8963	6.8	84

78	Fine and coarse PM composition and sources in rural and urban sites in Switzerland: local or regional pollution?. *Science of the Total Environment*, **2012**, 427-428, 191-202	10.2	81
77	Variability of carbonaceous aerosols in remote, rural, urban and industrial environments in Spain: implications for air quality policy. *Atmospheric Chemistry and Physics*, **2013**, 13, 6185-6206	6.8	80
76	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. *Atmospheric Measurement Techniques*, **2015**, 8, 5063-5087	4	79
75	A new look at inhalable metalliferous airborne particles on rail subway platforms. *Science of the Total Environment*, **2015**, 505, 367-75	10.2	77
74	Lanthanoid geochemistry of urban atmospheric particulate matter. *Environmental Science & Technology*, **2008**, 42, 6502-7	10.3	77
73	Origin of inorganic and organic components of PM2.5 in subway stations of Barcelona, Spain. *Environmental Pollution*, **2016**, 208, 125-136	9.3	74
72	Seasonal and spatial variations of sources of fine and quasi-ultrafine particulate matter in neighborhoods near the Los Angeles–Long Beach harbor. *Atmospheric Environment*, **2008**, 42, 7317-7328	5.3	70
71	Organic compound characterization and source apportionment of indoor and outdoor quasi-ultrafine particulate matter in retirement homes of the Los Angeles Basin. *Indoor Air*, **2010**, 20, 17-30	5.4	62
70	Source apportionment of indoor, outdoor and personal PM2.5 exposure of pregnant women in Barcelona, Spain. *Atmospheric Environment*, **2012**, 59, 426-436	5.3	60
69	Application of optimally scaled target factor analysis for assessing source contribution of ambient PM10. *Journal of the Air and Waste Management Association*, **2009**, 59, 1296-307	2.4	58
68	Organic aerosol source apportionment by offline-AMS over a full year in Marseille. *Atmospheric Chemistry and Physics*, **2017**, 17, 8247-8268	6.8	54
67	Long-term real-time chemical characterization of submicron aerosols at Montsec (southern Pyrenees, 1570 m a.s.l.). *Atmospheric Chemistry and Physics*, **2015**, 15, 2935-2951	6.8	54
66	Thermal-optical analysis for the measurement of elemental carbon (EC) and organic carbon (OC) in ambient air a literature review		54
65	Spatial variability of trace elements and sources for improved exposure assessment in Barcelona. *Atmospheric Environment*, **2014**, 89, 268-281	5.3	51
64	Elemental composition of ambient aerosols measured with high temporal resolution using an online XRF spectrometer. *Atmospheric Measurement Techniques*, **2017**, 10, 2061-2076	4	51
63	Organic compounds in aerosols from selected European sites – Biogenic versus anthropogenic sources. *Atmospheric Environment*, **2012**, 59, 243-255	5.3	50
62	Chemical characterization of submicron regional background aerosols in the western Mediterranean using an Aerosol Chemical Speciation Monitor. *Atmospheric Chemistry and Physics*, **2015**, 15, 6379-6391	6.8	50
61	Assessment of air quality microsensors versus reference methods: The EuNetAir Joint Exercise – Part II. *Atmospheric Environment*, **2018**, 193, 127-142	5.3	49

60	Deposition of aerosol particles from a subway microenvironment in the human respiratory tract. *Journal of Aerosol Science*, **2015**, 90, 103-113	4.3	47
59	Oxidative potential of subway PM2.5. *Atmospheric Environment*, **2017**, 148, 230-238	5.3	44
58	Detection of Saharan dust and biomass burning events using near-real-time intensive aerosol optical properties in the north-western Mediterranean. *Atmospheric Chemistry and Physics*, **2016**, 16, 12567-12586	6.8	40
57	Effect of ceramic industrial particulate emission control on key components of ambient PM10. *Journal of Environmental Management*, **2009**, 90, 2558-67	7.9	38
56	PM10 speciation and determination of air quality target levels. A case study in a highly industrialized area of Spain. *Science of the Total Environment*, **2007**, 372, 382-96	10.2	38
55	Impact of fugitive emissions in ambient PM levels and composition: a case study in Southeast Spain. *Science of the Total Environment*, **2010**, 408, 4999-5009	10.2	37
54	Variability of aerosols and chemical composition of PM10, PM2.5 and PM1 on a platform of the Prague underground metro. *Atmospheric Environment*, **2015**, 118, 176-183	5.3	35
53	Particulate air pollution and preeclampsia: a source-based analysis. *Occupational and Environmental Medicine*, **2014**, 71, 570-7	2.1	34
52	The effect of ventilation protocols on airborne particulate matter in subway systems. *Science of the Total Environment*, **2017**, 584-585, 1317-1323	10.2	33
51	Effects of sources and meteorology on particulate matter in the Western Mediterranean Basin: An overview of the DAURE campaign. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 4978-5010	4.4	33
50	Phenomenology of high-ozone episodes in NE Spain. *Atmospheric Chemistry and Physics*, **2017**, 17, 2817-2838	6.8	33
49	Impact of the implementation of PM abatement technology on the ambient air levels of metals in a highly industrialised area. *Atmospheric Environment*, **2007**, 41, 1026-1040	5.3	33
48	Secondary organic aerosol origin in an urban environment: influence of biogenic and fuel combustion precursors. *Faraday Discussions*, **2016**, 189, 337-59	3.6	33
47	Bioaerosols in the Barcelona subway system. *Indoor Air*, **2017**, 27, 564-575	5.4	32
46	New particle formation at ground level and in the vertical column over the Barcelona area. *Atmospheric Research*, **2015**, 164-165, 118-130	5.4	29
45	Aerosol sources in subway environments. *Environmental Research*, **2018**, 167, 314-328	7.9	28
44	Three years of aerosol mass, black carbon and particle number concentrations at Montsec (southern Pyrenees, 1570 m a.s.l.). *Atmospheric Chemistry and Physics*, **2014**, 14, 4279-4295	6.8	28
43	Quantitative sampling and analysis of trace elements in atmospheric aerosols: impactor characterization and Synchrotron-XRF mass calibration. *Atmospheric Measurement Techniques*, **2010**, 3, 1473-1485	4	28

42	Receptor models application to multi-year ambient PM10 measurements in an industrialized ceramic area: Comparison of source apportionment results. *Atmospheric Environment*, **2008**, 42, 9007-9017	5.3	28
41	Mass concentration, composition and sources of fine and coarse particulate matter in Tijuana, Mexico, during Cal-Mex campaign. *Atmospheric Environment*, **2014**, 88, 320-329	5.3	27
40	PM sources in a highly industrialised area in the process of implementing PM abatement technology. Quantification and evolution. *Journal of Environmental Monitoring*, **2007**, 9, 1071-81		27
39	Joint analysis of continental and regional background environments in the western Mediterranean: PM₁ and PM₁₀ concentrations and composition. *Atmospheric Chemistry and Physics*, **2015**, 15, 1129-1145	6.8	22
38	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. *Atmospheric Chemistry and Physics*, **2013**, 13, 8991-9019	6.8	22
37	Factors controlling particle number concentration and size at metro stations. *Atmospheric Environment*, **2017**, 156, 169-181	5.3	21
36	Effects of two different biogenic emission models on modelled ozone and aerosol concentrations in Europe. *Atmospheric Chemistry and Physics*, **2019**, 19, 3747-3768	6.8	21
35	Spatial and temporal variations in inhalable CuZnPb aerosols within the Mexico City pollution plume. *Journal of Environmental Monitoring*, **2008**, 10, 370-8		20
34	Source apportionment of highly time-resolved elements during a firework episode from a rural freeway site in Switzerland. *Atmospheric Chemistry and Physics*, **2020**, 20, 1657-1674	6.8	18
33	Sources of organic aerosols in Europe: a modeling study using CAMx with modified volatility basis set scheme. *Atmospheric Chemistry and Physics*, **2019**, 19, 15247-15270	6.8	16
32	Air quality comparison between two European ceramic tile clusters. *Atmospheric Environment*, **2013** , 74, 311-319	5.3	15
31	Within-city contrasts in PM composition and sources and their relationship with nitrogen oxides. *Journal of Environmental Monitoring*, **2012**, 14, 2718-28		15
30	Molecular insights into new particle formation in Barcelona, Spain. *Atmospheric Chemistry and Physics*, **2020**, 20, 10029-10045	6.8	14
29	Inter- and Intra-Community Variability in Continuous Coarse Particulate Matter (PM10-2.5) Concentrations in the Los Angeles Area. *Aerosol Science and Technology*, **2010**, 44, 526-540	3.4	12
28	Formation and alteration of airborne particles in the subway environment. *Environmental Sciences: Processes and Impacts*, **2017**, 19, 59-64	4.3	11
27	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. *Atmospheric Chemistry and Physics*, **2019**, 19, 7279-7295	6.8	11
26	Vertical and horizontal fall-off of black carbon and NO within urban blocks. *Science of the Total Environment*, **2019**, 686, 236-245	10.2	10
25	Health risk assessment from exposure to particles during packing in working environments. *Science of the Total Environment*, **2019**, 671, 474-487	10.2	10

24	Evaluation of the Semi-Continuous OCEC analyzer performance with the EUSAAR2 protocol. *Science of the Total Environment*, **2020**, 747, 141266	10.2	10
23	Vertical and horizontal variability of PM₁₀ source contributions in Barcelona during SAPUSS. *Atmospheric Chemistry and Physics*, **2016**, 16, 6785-6804	6.8	9
22	A European aerosol phenomenology - 7: High-time resolution chemical characteristics of submicron particulate matter across Europe. *Atmospheric Environment: X*, **2021**, 10, 100108	2.8	8
21	Quantifying traffic, biomass burning and secondary source contributions to atmospheric particle number concentrations at urban and suburban sites. *Science of the Total Environment*, **2021**, 768, 145282	10.2	8
20	Source apportionment of urban PM in Barcelona during SAPUSS using organic and inorganic components. *Environmental Science and Pollution Research*, **2019**, 26, 32114-32127	5.1	6
19	PM□concentration in urban atmosphere around the eastern Tien Shan, Central Asia during 2007-2013. *Environmental Science and Pollution Research*, **2015**, 22, 6864-76	5.1	6
18	Origin of PM10 Pollution Episodes in an Industrialized Mega-City in Central China. *Aerosol and Air Quality Research*, **2014**, 14, 338-346	4.6	6
17	Road traffic and sandy playground influence on ambient pollutants in schools. *Atmospheric Environment*, **2015**, 111, 94-102	5.3	5
16	How can ventilation be improved on public transportation buses? Insights from CO measurements. *Environmental Research*, **2021**, 112451	7.9	5
15	Intercomparison and characterization of 23 Aethalometers under laboratory and ambient air conditions: procedures and unit-to-unit variabilities. *Atmospheric Measurement Techniques*, **2021**, 14, 3195-3216	4	5
14	Organophosphate esters in airborne particles from subway stations. *Science of the Total Environment*, **2021**, 769, 145105	10.2	5
13	Increase in secondary organic aerosol in an urban environment. *Atmospheric Chemistry and Physics*, **2021**, 21, 8323-8339	6.8	5
12	Chemical characterization of submicron regional background aerosols in the Western Mediterranean using an Aerosol Chemical Speciation Monitor		4
11	Compositional changes of PM in NE Spain during 2009-2018: A trend analysis of the chemical composition and source apportionment. *Science of the Total Environment*, **2021**, 795, 148728	10.2	4
10	Organic aerosol source apportionment by offline-AMS over a full year in Marseille **2017**,		3
9	Air Quality in Subway Systems **2018**, 289-321		3
8	Source apportionment of highly time resolved trace elements during a firework episode from a rural freeway site in Switzerland **2019**,		2
7	Urban case studies: general discussion. *Faraday Discussions*, **2016**, 189, 473-514	3.6	1

6	Characterisation of Airborne Particulate Matter in Different European Subway Systems **2017**,		1
5	Mitigation strategies: Castelló, Spain **2013**, 150-160		1
4	Long-term real-time chemical characterization of submicron aerosols at Montsec (Southern Pyrenees, 1570 m a.s.l.)		1
3	Three years of aerosol mass, black carbon and particle number concentrations at Montsec (southern~Pyrenees, 1570 m a.s.l.)		1
2	European Aerosol Phenomenology - 8: Harmonised Source Apportionment of Organic Aerosol using 22 Year-long ACSM/AMS Datasets. *Environment International*, **2022**, 107325	12.9	1
1	PM: environmental monitoring and mitigation **2013**, 2-6		